

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-162
Item to be Scouted	Self-Applied Sheet Air Barrier
Days to be scouted	5
Response Due By	05/12/2025
Description	DEW Construction (GC) and our trade partner (Green Mountain Waterproofing) need assistance sourcing self-adhering sheet air barriers for a project in South Burlington, VT.

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Layering & coating, reinforcement, and cutting & packaging
Provide dimensions / size / tolerances / performance specifications for the item	Size: not important Thickness: 23 mils minimum Membrane Air Permeance: Not to exceed 0.004 cfm / sf of surface area at 1.57-lb/sf pressure difference; ASTM E 2178 Membrane Vapor Permeance: Not less than 10 perms; ASTM E 96 Please see attached documents for additional and more specific information.
List required materials needed to make the product, including materials of product components	Implementation dependent. May include but is not limited to durable, flexible materials such as polyethylene, rubberized asphalt, or butyl-based compounds to create the air barrier sheets.
Are there applicable certification requirements?	No
Are there applicable regulations?	Yes
Details	NFPA 285, ASTM E84, ASTM E96, ASTM E331, ASTM E2178, ASTM E96, ICC-ES AC308, AAMA 711 and ASTM D1970 Modified, ASTM E2273
Are there any other standards, requirements, etc.?	No
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	One time order as needed by the trade partner.
Estimated target price / unit cost information (if unavailable explain)	\$6,200 is best guess. This number includes the self-adhered air barrier, primer and sealants.
When is it needed by?	Immediate.
Describe packaging requirements	Packaging up to the manufacturer. Best available. Delivered undamaged. Specifics discussed in negotiation.
Where will this item be shipped?	South Burlington, VT.

Additional Comments

Is there other information you would like to include?

Funding Agency: Department of Commerce, National Institute of Standards and Technology. Attached for reference is the grant award letter provided to Burlington High School for this project.
DEW Construction, BABA Contact: Michael Snyder, Cell: (802) 798-4976, Email: msnyder@dewconstruction.com

SECTION 072700

AIR BARRIERS

Job #	<u>10424</u>
Cost #	<u> </u>
<u>Construction Set</u>	
Received	<u>11/7/2024</u>
DEW CONSTRUCTION	

PART 1 - GENERAL

1.1 GENERAL PROVISIONS

- A. Attention is directed to the CONTRACT AND GENERAL CONDITIONS and all Sections within DIVISION 01 - GENERAL REQUIREMENTS, which are hereby made a part of this Section of the Specifications.

1.2 DESCRIPTION OF WORK

- A. Work Included: Provide labor, materials and equipment necessary to complete the work of this Section, including but not limited to the following:
 - 1. Self-adhering, vapor-permeable, modified bituminous sheet air barrier.
 - 2. Transition strips to adjacent and penetrating materials.
- B. Regulatory Requirements: Comply with the Build America, Buy America Act (BABAA), section 70914 of Public Law No. 117-58, §§70901-52. See Section 014133 – Build America, Buy America (BABAA) Compliance Requirements.
- C. Related Work: The following items are not included in this Section and are specified under the designated Sections:
 - 1. Section 079200 - JOINT SEALANTS for joint sealant requirements.

1.3 DEFINITIONS

- A. Air Barrier Assembly: The collection of air barrier materials and auxiliary materials applied to an opaque wall or soffit, including joints and junctions to abutting construction, to control air movement through the wall.

1.4 PERFORMANCE REQUIREMENTS

- A. General: Air barrier shall be capable of performing as a continuous vapor-retarding air barrier and as a liquid-water drainage plane flashed to discharge to the exterior incidental condensation or water penetration. Air barrier assemblies shall be capable of accommodating substrate movement and of sealing substrate expansion and control joints, construction material changes, penetrations, and transitions at perimeter conditions without deterioration and air leakage exceeding specified limits.
- B. Air Barrier Assembly Air Leakage: Not to exceed 0.03 cfm/sq. ft. of surface area at 1.57 lbf/sq. ft., ASTM E 2357.

1.5 PRECONSTRUCTION TESTING

- A. Mockup Testing: Air barrier assemblies shall comply with performance requirements indicated, as evidenced by reports based on mockup testing by a qualified testing agency.

1. The Owner may engage a qualified testing agency.
2. Quantitative Air Leakage Testing: Testing of the mockup for air leakage will be conducted not to exceed the test pressure differential, positive and negative, indicated in "Performance Requirements" Article for air barrier assembly air leakage when tested according to ASTM E 783.
3. Notify Architect and the Owner a minimum of seven days in advance of the dates and times when mockup testing will take place.

1.6 SUBMITTALS

- A. Product Data: For each type of product indicated.
 1. Include manufacturer's written instructions for evaluating, preparing, and treating substrate; technical data; and tested physical and performance properties of air barrier.
- B. BABAA Compliance: Submit manufacturer's documentation that products comply with the Build America, Buy America Act (BABAA).
- C. Shop Drawings: Show locations and extent of air barrier. Include details for substrate joints and cracks, counterflashing strip, penetrations, inside and outside corners, terminations, and tie-ins with adjoining construction.
 1. Include details of interfaces with other materials that form part of air barrier.
 2. Include details of mockups.
- D. Product Certificates: For air barriers, certifying compatibility of air barrier and accessory materials with Project materials that connect to or that come in contact with air barrier; signed by product manufacturer.
- E. Qualification Data: For Applicator.
- F. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for air barriers.

1.7 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm experienced in applying air barrier materials similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.
- B. Mockups: Before beginning installation of air barrier, build mockups of exterior wall assembly 150 sq. ft., incorporating backup wall construction, external cladding, window, door frame and sill, insulation, and flashing to demonstrate surface preparation, crack and joint treatment, and sealing of gaps, terminations, and penetrations of air barrier membrane.
 1. Coordinate construction of mockup to permit inspection by Owner's testing agency of air barrier before external insulation and cladding is installed.
 2. Include junction with roofing membrane, building corner condition, and foundation wall intersection.
 3. If the Architect determines mockups do not comply with requirements, reconstruct mockups and apply air barrier until mockups are approved.
 4. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

C. Preinstallation Conference: Conduct conference at Project site.

1. Include installers of other construction connecting to air barrier, such as roofing, waterproofing, architectural precast concrete, masonry, joint sealants, windows, glazed curtain walls, and door frames.
2. Review air barrier requirements including surface preparation, substrate condition and pretreatment, minimum substrate curing period, forecasted weather conditions, special details and sheet flashings, mockups, installation procedures, sequence of installation, testing and inspecting procedures, and protection and repairs.

1.8 DELIVERY, STORAGE, AND HANDLING

- A. Store liquid materials in their original undamaged packages in a clean, dry, protected location and within temperature range required by air barrier manufacturer.
- B. Remove and replace liquid materials that cannot be applied within their stated shelf life.
- C. Store rolls according to manufacturer's written instructions.
- D. Protect stored materials from direct sunlight.

1.9 PROJECT CONDITIONS

- A. Environmental Limitations: Apply air barrier within the range of ambient and substrate temperatures recommended by air barrier manufacturer. Protect substrates from environmental conditions that affect performance of air barrier. Do not apply air barrier to a damp or wet substrate or during snow, rain, fog, or mist.

PART 2 - PRODUCTS

2.1 SELF-ADHERING SHEET MEMBRANE AIR BARRIERS

A. Self-Adhering, Vapor-Permeable Sheet:

1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. GCP Applied Technologies (formerly W.R. Grace); Perm-A-Barrier VPS.
 - b. Henry Co.; Blueskin VP 160.
2. Thickness: 23 mils minimum.
3. Physical and Performance Properties:
 - a. Membrane Air Permeance: Not to exceed 0.004 cfm/sq. ft. of surface area at 1.57-lbf/sq. ft. pressure difference; ASTM E 2178.
 - b. Membrane Vapor Permeance: Not less than 10 perms; ASTM E 96.
4. Building Product Disclosure and Optimization, Material Ingredients: Declare product label.

2.2 AUXILIARY MATERIALS

- A. General: Auxiliary materials recommended by air barrier manufacturer for intended use and compatible with air barrier. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
 - B. Primer: Liquid waterborne or solvent-borne primer recommended for substrate by manufacturer of air barrier material.
 - C. Counterflashing Strip: Modified bituminous 40-mil-thick, self-adhering sheet consisting of 32 mils of rubberized asphalt laminated to an 8-mil-thick, crosslaminated polyethylene film with release liner backing.
 - D. Butyl Strip at Termination with EPDM or TPO Roofing Membrane: Vapor-retarding, 30- to 40-mil-thick, self-adhering; polyethylene-film-reinforced top surface laminated to layer of butyl adhesive, with release liner backing.
 - E. Modified Bituminous Strip To Cover Cracks and Joints and Terminate Air Barrier to Compatible Roofing Membrane: Vapor-retarding, 40-mil-thick, smooth-surfaced, self-adhering; consisting of 36 mils of rubberized asphalt laminated to a 4-mil- polyethylene film with release liner backing.
 - F. Termination Mastic: Cold fluid-applied elastomeric liquid; trowel grade.
 - G. Substrate Patching Membrane: Manufacturer's standard trowel-grade substrate filler.
 - H. Adhesive and Tape: Air barrier manufacturer's standard adhesive and pressure-sensitive adhesive tape.
 - I. Stainless-Steel Sheet: ASTM A 240/A 240M, Type 304, 0.0187 inch thick, and Series 300 stainless-steel fasteners.
 - J. Sprayed Polyurethane Foam Sealant to Fill Gaps at Penetrations and Openings: one- or two-component, foamed-in-place, polyurethane foam sealant, 1.5 to 2.0 lb/cu. ft. density; flame spread index of 25 or less according to ASTM E 162; with primer and noncorrosive substrate cleaner recommended by foam sealant manufacturer.
 - K. Modified Bituminous Transition Strip to Seal Air Barrier Terminations with Glazing Systems: Vapor-retarding, 40-mil-thick, smooth-surfaced, self-adhering; consisting of 36 mils of rubberized asphalt laminated to a 4-mil-thick polyethylene or aluminum film with release liner backing.
 - L. Preformed Silicone-Sealant Extrusion to Seal Air Barrier Terminations with Glazing Systems: Manufacturer's standard system consisting of cured low-modulus silicone extrusion, sized to fit opening widths, with a single-component, neutral-curing, Class 100/50 (low-modulus) silicone sealant for bonding extrusions to substrates.
- 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Dow Corning Corporation; 123 Silicone Seal.
 - b. Elbex Corp: Transition Silicone Sheeting HS222.
 - c. GE Silicone; UltraSpan US1100.
 - d. Tremco; approved equal.

- M. Joint Sealant: ASTM C 920, single-component, neutral-curing silicone; Class 100/50 (low-modulus), Grade NS, Use NT related to exposure, and, as applicable to joint substrates indicated, Use O. Comply with Section 079200 - JOINT SEALANTS.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance.
 - 1. Verify that substrates are sound and free of oil, grease, dirt, excess mortar, or other contaminants.
 - 2. Verify that concrete has cured and aged for minimum time period recommended by air barrier manufacturer.
 - 3. Verify that concrete is visibly dry and free of moisture. Test for capillary moisture by plastic sheet method according to ASTM D 4263.
 - 4. Verify that masonry joints are flush and completely filled with mortar.
 - 5. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 SURFACE PREPARATION

- A. Clean, prepare, and treat substrate according to manufacturer's written instructions. Provide clean, dust-free, and dry substrate for air barrier application.
- B. Mask off adjoining surfaces not covered by air barrier to prevent spillage and overspray affecting other construction.
- C. Remove grease, oil, bitumen, form-release agents, paints, curing compounds, and other penetrating contaminants or film-forming coatings from concrete.
- D. Remove fins, ridges, mortar, and other projections and fill honeycomb, aggregate pockets, holes, and other voids in concrete with substrate-patching membrane.
- E. Remove excess mortar from masonry ties, shelf angles, and other obstructions.
- F. Prepare, fill, prime, and treat joints and cracks in substrates. Remove dust and dirt from joints and cracks according to ASTM D 4258.
 - 1. Install modified bituminous strips and center over treated construction and contraction joints and cracks exceeding a width of 1/16 inch.
- G. Bridge and cover isolation joints expansion joints and discontinuous deck-to-wall and deck-to-deck joints with overlapping modified bituminous strips.
- H. At changes in substrate plane, apply sealant or termination mastic beads at sharp corners and edges to form a smooth transition from one plane to another.
- I. Cover gaps in substrate plane and form a smooth transition from one substrate plane to another with stainless-steel sheet mechanically fastened to structural framing to provide continuous support for air barrier.

3.3 TRANSITION STRIP INSTALLATION

- A. Install strips, transition strips, and auxiliary materials according to air barrier manufacturer's written instructions to form a seal with adjacent construction and maintain a continuous air barrier.
 - 1. Coordinate the installation of air barrier with installation of roofing membrane and base flashing to ensure continuity of air barrier with roofing membrane.
 - 2. Install butyl or modified bituminous strip on roofing membrane or base flashing so that a minimum of 3 inches of coverage is achieved over both substrates.
- B. Apply primer to substrates at required rate and allow to dry. Limit priming to areas that will be covered by air barrier sheet in same day. Reprime areas exposed for more than 24 hours.
 - 1. Prime glass-fiber-surfaced gypsum sheathing with number of prime coats needed to achieve required bond, with adequate drying time between coats.
- C. Connect and seal exterior wall air barrier membrane continuously to roofing membrane air barrier, concrete below-grade structures, floor-to floor construction, exterior glazing and window systems, glazed curtain-wall systems, storefront systems, exterior louvers, exterior door framing, and other construction used in exterior wall openings, using accessory materials.
- D. At end of each working day, seal top edge of strips and transition strips to substrate with termination mastic.
- E. Apply joint sealants forming part of air barrier assembly within manufacturer's recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- F. Wall Openings: Prime concealed perimeter frame surfaces of windows, curtain walls, storefronts, and doors. Apply transition strip so that a minimum of 3 inches of coverage is achieved over both substrates. Maintain 3 inches of full contact over firm bearing to perimeter frames with not less than 1 inch of full contact.
 - 1. Transition Strip: Roll firmly to enhance adhesion.
 - 2. Elastomeric Flashing Sheet: Apply adhesive to wall, frame, and flashing sheet. Install flashing sheet and termination bars, fastened at 6 inches o.c. Apply lap sealant over exposed edges and on cavity side of flashing sheet.
 - 3. Preformed Silicone-Sealant Extrusion: Set in full bed of silicone sealant applied to walls, frame, and membrane.
- G. Fill gaps in perimeter frame surfaces of windows, curtain walls, storefronts, and doors, and miscellaneous penetrations of air barrier membrane with foam sealant.
- H. Seal strips and transition strips around masonry reinforcing or ties and penetrations with termination mastic.
- I. Seal top of through-wall flashings to air barrier with an additional 6-inch-wide, modified bituminous strip.
- J. Seal exposed edges of strips at seams, cuts, penetrations, and terminations not concealed by metal counterflashings or ending in reglets with termination mastic.

- K. Repair punctures, voids, and deficient lapped seams in strips and transition strips. Slit and flatten fishmouths and blisters. Patch with transition strips extending 6 inches beyond repaired areas in strip direction.

3.4 INSTALLATION OF SELF-ADHERING SHEET MEMBRANE

- A. Install modified bituminous sheets according to air barrier manufacturer's written instructions and according to recommendations in ASTM D 6135.
 - 1. When ambient and substrate temperatures range between 25 and 40 deg F, install self-adhering, modified bituminous air barrier sheets produced for low-temperature application. Do not use low-temperature sheets if ambient or substrate temperature is higher than 60 deg F.
- B. Corners: Prepare, prime, and treat inside and outside corners according to ASTM D 6135.
 - 1. Install modified bituminous strips centered over vertical inside corners. Install 3/4-inch fillets of termination mastic on horizontal inside corners.
- C. Prepare, treat, and seal vertical and horizontal surfaces at terminations and penetrations with termination mastic and according to ASTM D 6135.
- D. Apply primer to substrates at required rate and allow to dry. Limit priming to areas that will be covered by air barrier sheet in same day. Reprime areas exposed for more than 24 hours.
 - 1. Prime glass-fiber-surfaced gypsum sheathing with number of prime coats needed to achieve required bond, with adequate drying time between coats.
- E. Apply and firmly adhere modified bituminous sheets horizontally or vertically over area to receive air barrier sheets. Accurately align sheets and maintain a uniform 2-1/2-inch-minimum lap widths and end laps. Overlap and seal seams and stagger end laps to ensure airtight installation.
 - 1. Apply sheets in a shingled manner to shed water without interception by any exposed sheet edges.
 - 2. Roll sheets firmly to enhance adhesion to substrate.
 - 3. Apply termination mastic on any horizontal, field-cut or non-factory edges.
- F. Apply continuous modified bituminous sheets over modified bituminous strips bridging substrate cracks, construction, and contraction joints.
- G. Seal top of non-metallic through-wall flashings to air barrier sheet with an additional 6-inch- wide strip.
- H. Seal exposed edges of metallic sheets at seams, cuts, penetrations, and terminations not concealed by metal counterflashings or ending in reglets with termination mastic.
- I. Install air barrier sheets and auxiliary materials to form a seal with adjacent construction and to maintain a continuous air barrier.
 - 1. Coordinate the installation of air barrier with installation of roofing membrane and base flashing to ensure continuity of air barrier with roofing membrane.
 - 2. Install compatible strip on roofing membrane or base flashing so that a minimum of 3 inches of coverage is achieved over both substrates.

- J. Connect and seal exterior wall air barrier membrane continuously to roofing membrane air barrier, concrete below-grade structures, floor-to floor construction, exterior glazing and window systems, glazed curtain-wall systems, storefront systems, exterior louvers, exterior door framing, and other construction used in exterior wall openings using accessory materials.
- K. Wall Openings: Prime concealed perimeter frame surfaces of windows, curtain walls, storefronts, and doors. Apply membrane specified below so that a minimum of 3 inches of coverage is achieved over both substrates. Maintain 3 inches of full contact over firm bearing to perimeter frames with not less than 1 inch of full contact.
 - 1. Modified Bituminous Transition Strip: Roll firmly to enhance adhesion.
 - 2. Elastomeric Flashing Sheet: Apply adhesive to wall, frame, and flashing sheet. Install flashing sheet and termination bars, fastened at 6 inches o.c. Apply lap sealant over exposed edges and on cavity side of flashing sheet.
 - 3. Preformed Silicone-Sealant Extrusion: Set in full bed of silicone sealant applied to walls, frame, and membrane.
- L. Fill gaps in perimeter frame surfaces of windows, curtain walls, storefronts, doors, and miscellaneous penetrations of air barrier membrane with foam sealant.
- M. At end or each working day, seal top edge of membrane to substrate with termination mastic.
- N. Apply joint sealants forming part of air barrier assembly within manufacturer's recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.
- O. Repair punctures, voids, and deficient lapped seams in air barrier. Slit and flatten fishmouths and blisters. Patch with air barrier sheet extending 6 inches beyond repaired areas in all directions.
- P. Do not cover air barrier until it has been tested and inspected by Owner's testing agency.
- Q. Correct deficiencies in or remove air barrier that does not comply with requirements; repair substrates and reapply air barrier components.

3.5 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections and prepare test reports.
- B. Inspections: Air barrier materials and installation are subject to inspection for compliance with requirements. Inspections may include the following:
 - 1. Continuity of air barrier system has been achieved throughout the building envelope with no gaps or holes.
 - 2. Continuous structural support of air barrier system has been provided.
 - 3. Masonry and concrete surfaces are smooth, clean, and free of cavities, protrusions, and mortar droppings.
 - 4. Site conditions for application temperature and dryness of substrates have been maintained.
 - 5. Maximum exposure time of materials to UV deterioration has not been exceeded.
 - 6. Surfaces have been primed.

7. Laps in sheet materials have complied with the minimum requirements and have been shingled in the correct direction (or mastic applied on exposed edges), with no fishmouths.
8. Termination mastic has been applied on cut edges.
9. Air barrier has been firmly adhered to substrate.
10. Compatible materials have been used.
11. Transitions at changes in direction and structural support at gaps have been provided.
12. Connections between assemblies (membrane and sealants) have complied with requirements for cleanliness, preparation, and priming of surfaces, structural support, integrity, and continuity of seal.
13. All penetrations have been sealed.

C. Tests:

1. Qualitative Testing: Air barrier assemblies will be tested for evidence of air leakage according to ASTM E 1186.
2. Quantitative Air Leakage Testing: Testing not to exceed the test pressure differential, positive and negative, indicated in "Performance Requirements" Article for air barrier assembly air leakage according to ASTM E 783.

D. Remove and replace deficient air barrier components and retest as specified above.

3.6 CLEANING AND PROTECTION

- A. Protect air barrier system from damage during application and remainder of construction period, according to manufacturer's written instructions.
1. Protect air barrier from exposure to UV light and harmful weather exposure as required by manufacturer. Remove and replace air barrier exposed to these conditions for more than 30 days.
 2. Protect air barrier from contact with creosote, uncured coal-tar products, TPO, EPDM, flexible PVC membranes, and sealants not approved by air barrier manufacturer.
- B. Clean spills, stains, and soiling from adjacent construction that would be exposed in the completed work using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION

Henry[®] Blueskin[®] VP100

Self-Adhered Water Resistive Air Barrier

Submittal Packet



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Physical property	Typical value	Test method
Color	Blue	-
Thickness, nominal	19 mils (0.48 mm)	-
Application temperature, min	+20 °F (-7 °C)	-
Service temperature	-40 °F to +180 °F (-40 °C to +82 °C)	-
Water vapor permeance (Blueskin® VP100)	33 Perms	ASTM E96, Method A
Average breaking force, dry	55 lbf / 245 N MD 48 lbf / 214 N CD	ASTM D5034
Accelerated aging	Pass	ICC-ES AC48 (25 cycles)
Cycling and elongation	Pass	ICC-ES AC48 (100 cycles at -20 °F (-29 °C))
Flame spread index	5, Class A	ASTM E84
Smoke developed	125, Class A	ASTM E84
Air permeance @ 75Pa	0.004 cfm/ft² (0.02 L/s.m.²)	ASTM E2178, CAN/ULC-S741-08
Acceptance criteria for water resistive barriers	Pass	ICC-ES AC38
Low temperature flexibility	Pass	ICC-ES AC38/3.3.4
Peel-adhesion to unprimed plywood		
Baseline	62 lbf/ft / 905N/m	ICC-ES AC48
After 7 day water immersion	54 lbf/ft / 786N/m	
After accelerated aging	72 lbf/ft / 1049N/m	
After UV exposure	77 lbf/ft / 1125N/m	
Nail sealability	Pass	AAMA 711, ASTM D1970 modified
Drainability	>95%	ASTM E2273

Approvals and Certifications

- ICC ESR-2975
- ICC AC38
- CGSB 51.32
- AAMA 711-05
- ASTM E331

Description

Blueskin® VP100 is a premium, self-adhered vapor permeable, water-resistive barrier, designed for wood-framed residential and multi-family construction. It protects buildings by eliminating air gaps, water and moisture intrusion, and self-seals around nails and fasteners. **Blueskin® VP100** combines an engineered film and a patented, permeable adhesive technology, with split-back poly release film.

Features and benefits

- Self-seals around nails and fasteners for lasting water tightness
- Achieves more than 95% drainage efficiency in accordance with ASTM E2273
- Eliminates uncontrolled air leakage to reduce energy costs
- Improves air quality by helping to reduce mold proliferation
- Easy installation with peel-and-stick system

Usage

Designed for wood-framed residential and multi-family applications, **Blueskin® VP100** creates a water resistive air barrier when applied outside of the wall sheathing and behind the exterior wall cladding.

Application,

Surface Prep: All surfaces to receive **Blueskin® VP100** must be dry and clean of oil, dust, frost, bulk water and other contaminants that would limit adhesion of membrane. Acceptable substrates are exterior-grade gypsum sheathing, plywood, OSB, precast or cast-in-place concrete, concrete block, steel, aluminum and galvanized metal. Strike masonry joints full and flush. Concrete surfaces must

Blueskin® VP160 Self-Adhered Water Resistive Air Barrier

be smooth and without large voids, spalled areas or sharp protrusions. Concrete must be cured a minimum of 14 days. Curing compounds and release agents used in concrete construction must be resin based without oil or wax.

If appropriate adhesion is not obtained due to conditions beyond the control of the installer, the application of adhesive-primer will be required. Approved adhesive-primers include **Aquatac™ Primer**. In addition, **Blueskin® Spray Prep Primer** can be used with light coats that are allowed to dry fully prior to covering. Availability may vary by region. Coated surfaces not covered by air barrier during the working day must be recoated.

Apply: Blueskin® VP100 must be installed in a consecutive weatherboard method starting at bottom or base of wall and working up providing minimum of 2" (50mm) side overlaps and 3" (75mm) end overlaps. Position **Blueskin® VP100** for alignment with release paper in place; roll back, peel away split-back film and apply pressure to assure adhesion. **Surface must be rolled after application** with a countertop or J-roller with adequate pressure to ensure adhesion to substrate and laps and to remove fish-mouths and wrinkles. Seal membrane terminations, around penetrations, duct work, electrical and other apparatus extending through the **Blueskin® VP100** with **212 All Purpose Crystal Clear Sealant**. Additionally, seal around the perimeter edge of membrane, and terminations at window and door frames with **Moistop Sealant**. Apply **212 All Purpose Crystal Clear Sealant** or **Moistop Sealant** in a 1/4" (6mm) bead and tool to thickness of approximately 40 mils (1mm) prior to sealant skinning over. Supplemental sealant at fastening components may be needed, where continuous compression cannot be achieved. Please refer to "Fastener Penetrations through Air Barrier Membranes" Tech Talk for additional information on sealing heads of mechanical fasteners and masonry tie fasteners Note: excessive or heavy application of **212 All Purpose Crystal Clear Sealant** may cause superficial wrinkling of **Blueskin® VP100** in some situations.

Flash fenestrations per window and door manufacturers' recommendations, local building code requirements, ASTM E2112, and AAMA guidelines. Use pre-cut rolls of **FortiFlash**, **FortiFlash Butyl FortiFlex Butyl**, or **Blueskin® Butyl Flash** for sill pan flashings per Henry® published window flashing guidelines. **Air-Bloc® LF** liquid-applied flashing can also be used around the entire rough opening.

Refer to **Blueskin® VP100** Installation Guidelines for detailed application information.

Limitations: Blueskin® VP100 is designed for exposure of up to 150 days, but is not designed for permanent exposure to ultra-violet light and should be covered as soon as practical after application. Excessive moisture in substrate or laps can inhibit adhesion or result in loss of adhesion prior to installation of cladding. Do not expose the backside of the substrate to moisture or rain. Protect exposed back-up walls against wet weather conditions during and after application of membrane, including wall openings and construction activity above completed air barrier installation.

For installations less than 40 °F (4 °C), an approved Henry® primer is required for all substrates. For further details, refer to Henry® Tech-Talk Bulletin "**Blueskin® VP100** Cold Weather Application."

Product size/packaging

4" x 100' (10 cm x 30.5 m)
6" x 100' (15.2 cm x 30.5 m)
9" x 100' (22.8 cm x 30.5 m)
12" x 100' (30.5 cm x 30.5 m)
48" x 100' (122 cm x 30.5 m)

Storage

Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 120 °F (49 °C). In cold weather, it is recommended to warm rolls to 50 °F (10 °C) or above prior to application to assure adhesion to substrate.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on the Henry® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

Henry, Blueskin, and Air-Bloc are registered trademarks of Henry Company.
Covered by US patent 6,901,712; Canadian patent 2,413,550.

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry® Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.

Physical Properties

Application Temperature 10°F to 104°F	Drying Time (Set through) 20 minutes	Service Temperature, cured bead -40°F to 158° F
Color Clear amber	Flammability Wet-Flammable, Dry-Burns	Solids By Weight 35%
Drying Time (Initial set) 3 minutes		

Description

HE572 - BLUESKIN SPRAY PREP - AEROSOL is a spray adhesive used to prepare construction surfaces for the application of **Blueskin® Self-Adhesive Membrane**.

Features:

- Quick setting
- Aggressive tack provides adhesion of membrane
- Suitable for application at normal and low temperatures
- Easily applied

Usage

HE572 - BLUESKIN SPRAY PREP - AEROSOL is used as a spray adhesive for self-adhesive membranes such as **Blueskin® SA, WP200** or **RF200** when applied to masonry, concrete, wood, exterior grade gypsum board, DensGlass® and metal surfaces.

Blueskin® Spray Prep is ideal where a very fast drying adhesive is required. Convenient spray can application eliminates the need for brushes or rollers. Three minute tack time.

Designed for applications above -10°F.

Limitations: Solvent in product attacks polystyrene insulation. Avoid use where solvent odors may taint food or other susceptible products.

Coverage

30 to 50 sq. ft./can depending on porosity and texture of surface.

Surface Preparation

Surfaces must be dry and free from dust, dirt, grease, oil or other foreign matter.

Application

Shake can vigorously until ball rattles freely. Apply a uniform film to a clean, dry surface. Allow adhesive to tack up for 3 minutes before applying **Henry Blueskin® Self-Adhesive Membrane**. Apply a firm pressure to the membrane to ensure firm contact with the substrate. After spraying, turn can upside down, point nozzle into refuse can or at paper and push spray head for about 2 seconds to clear valve. For clean-up or if valve clogs, remove from can and clean in paint thinner or mineral spirits.

Precautions

DO NOT THIN.

Cleanup

Clean up with mineral spirits.

Caution

DANGER. EXTREMELY FLAMMABLE AEROSOL. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.

Prevention: Keep away from heat, sparks, open flames, and hot surfaces. No smoking. Keep containers tightly closed. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Contaminated clothing should not be allowed out of the work place. Avoid breathing vapors, mists, and sprays. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection.

Response: In case of fire, use alcohol foam, carbon dioxide (CO₂), or dry chemical to extinguish. IF ON SKIN: Take off immediately all contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs; Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Storage: Store locked up. Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/containers in accordance with local/regional/national/international regulations.

See safety data sheet for further details regarding the safe use of this product.

KEEP OUT OF REACH OF CHILDREN.

FOR EXTERIOR USE ONLY. FOR INDUSTRIAL USE ONLY.

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, and/or birth defects or other reproductive harm.

Product Sizes

15OZ AEROSOL CAN (1.42 lb)

Limited Warranty

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended as suitable for this product. Proof of purchase must be provided. **DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FOR A PARTICULAR PURPOSE. MANUFACTURER SHALL HAVE NO LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY DEFECTS OR ANY DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. THIS LIMITED WARRANTY PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT.**



TECHNICAL DATA SHEET

Aquatac™ Primer

Emulsion Primer for Self-Adhered Membranes

Physical property	Typical value
Color	Aqua
Solids by Volume	53% (approx.)
Weight	8.3 lbs/gal (approx.)
Application Temperature	25 °F to 104 °F (-4 °C to 40 °C)
Coverage	Up to 500 ft ² /gal depending on porosity and texture of surface
Maximum VOC	50 g/l
Drying Time	@ 50% R.H. 68 °F Dry Substrate
- Initial Set	30 minutes
- Set Through	2 hours
Service Temperature	- 40 °F to 150 °F (- 40 °C to 66 °C)
Flammability	
- Wet	Non-Flammable
- Dry	Burns

Description

Henry® Aquatac™ Primer is a polymer emulsion based primer for self-adhered Waterproofing and Air Barrier membranes.

Features and benefits

- Quick drying
- Highly tacky film provides positive adhesion to membrane
- Non-flammable during application
- Easily applied by spray, brush or roller
- Water based, no solvent odors
- Specially designed to provide a high level of tack on vertical surfaces

Usage

Used as a primer for self-adhered membranes such as Henry® Blueskin® WP200 when applied to masonry, concrete, wood, drywall and metal.

Application

Surface Prep: All surfaces must be dry and free from dust, dirt, grease, oil or other foreign matter.

Apply: Aquatac™ Primer is applied by roller at a rate up to 500 sq. ft. per gallon depending on the porosity and texture of the surface and allow to dry. Airless, air assist, or air spray equipment may also be used. Not suitable for use with a garden type sprayer. Pour primer from container into sprayer and spray fine mist over the entire substrate. Allow primer to dry thoroughly before applying membrane. Primer surfaces not covered by membrane during the same working day must be reprimed. Aquatac™ Primer is intended to be used as supplied and should not be diluted.

Clean Up: For uncured film use water. Use mineral spirits for cured films.

Precautions

Protect from freezing during shipping, storage and application. Apply under dry conditions above 25 °F (-4 °C). Avoid freezing. Store product above 32 °F (0 °C).

Henry Aquatac Primer

Caution

In case of eye contact, open eyelids wide and flush immediately with plenty of water for at least 15 minutes.

Seek medical attention.

Do not heat container or store at temperatures greater than 120 °F (49 °C).

Close container after each use.

Use protective measures to avoid contact with eyes and skin. If swallowed, seek medical attention immediately.

In case of accidental injection by power spray equipment, seek medical attention immediately.

Dispose of container and unused contents in accordance with local, state, and federal regulations.

Keep out of reach of children.

Protect from freezing.

For exterior use only.

Product size/packaging

5 gallon pail

Storage

Store rolls on end, on original pallets or elevated platform. Protect from weather or store in an enclosed area not subject to heat over 120 °F (49 °C). In cold weather, it is recommended to warm rolls to 50 °F (10 °C) or above prior to application to assure adhesion to substrate.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

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Covered by US patent 6,901,712; Canadian patent 2,413,550.

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TECHNICAL DATA SHEET
Blueskin® Butyl Flash
Self-Adhered Flashing

Physical Property	Typical Value	Test Method
Color	White	-
Thickness, nominal	19 mils (0.48 mm)	-
Application Temperature, min	+25° F (-4° C)	-
Service Temperature	-40° F to +180° F (-40° C to +82° C)	-
Elongation, min	825%	ASTM D882
Tensile Strength, min	2500 psi (17237 kPa)	ASTM D882
Low Temperature Flexibility @ -7° C (20° F)	Pass	ASTM D1970
Nail Sealability	Pass	ASTM D1970

Description

Blueskin® Butyl Flash is a self-adhered flashing consisting of a synthetic butyl compound which is integrally laminated to a white engineered polypropylene film surface. It is specifically designed to be self-adhered to a prepared substrate.

Features

- Impermeable to air, moisture vapor and water
- Easy self-adhered application
- Self-sealing when punctured
- Excellent cold weather adhesion
- Highly flexible making installation easy

Usage

Blueskin® Butyl Flash is designed for use as a concealed self-adhered flashing against water, air and moisture infiltration. **Blueskin® Butyl Flash** is commonly used to provide a weather tight seal around fenestrations, joints in sheathing, and as a general flashing in residential and commercial construction.

Application

Surface Prep: Substrates should be dry and clean of oil, dust, excess mortar and sharp protrusions. Concrete surfaces must be cured a minimum of 14 days. Acceptable substrates are precast concrete, cast-in-place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, gypsum board and wood. For best adhesion onto Oriented Strand Board (OSB), install the panel with the smooth side out. Strike masonry joints flush. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Where curing compounds are used, they must be clear resin-based without oil, wax or pigments.

For best possible adhesion results or when applying to concrete or masonry, apply **Blueskin® Spray Prep** or **Aquatac™** primer and allow to thoroughly dry before **Blueskin® Butyl Flash** is applied. Coated surfaces not covered by flashing during the working day must be recoated.

Apply: Position **Blueskin® Butyl Flash** for alignment with release paper in place; roll back, peel away release paper and press firmly over substrate. Apply pressure along entire surface once in place to ensure a strong bond. The best method to ensure full contact is to roll entire surface with a countertop roller. Orient laps in shingle fashion to shed water with a minimum of 50 mm (2") on both side and end laps. When using membrane with brick ties, position flashing, press in place and cut for ties or projections.

Limitations: **Blueskin® Butyl Flash** is designed for exposure of up to 150 days, but is not designed for permanent exposure to ultra-violet light and should be covered as soon as practical after application. It is compatible with rigid PVC/vinyl membranes as well as many sealants. For best results, use **Henry® 925 BES Sealant** for general use or **Henry® 212 Crystal Clear Sealant** as a termination sealant. Solvent based sealants should never be covered until fully cured.

Blueskin® Butyl Flash is not compatible with EPDM, flexible PVC, or similarly plasticized vinyl membranes.

Packaging

4" x 75' (10 cm x 23 m)
6" x 75' (15.2 cm x 23 m)
9" x 75' (22.8 cm x 23 m)
12" x 75' (30.5 cm x 23 m)

Storage

Store rolls on end, in original packaging. Protect from weather or store in an enclosed area not subject to heat over 120° F (49° C).

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

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A step 2 component of the Henry® 1-2-3 Moisture Control System™

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Henry® FortiFlash® Butyl Flashing Membrane



Maximum protection against water intrusion

Henry® FortiFlash® Butyl Waterproof Flashing Membrane delivers exceptional protection against water intrusion in even the most demanding environments. Advanced butyl adhesive provides a tight bond and can withstand extreme temperatures (250 °F).

Wider sizes feature a split-back release liner for easy installation, **FortiFlash Butyl Waterproof Flashing Membrane** provides a strong, self-sealing barrier that protects windows, doors and through-wall penetrations, as well as non-roofing horizontal applications such as pot shelves, parapets, sill pans and recessed windows.

FortiFlash Butyl Waterproof Flashing Membrane is designed to withstand the rigors of the jobsite and the elements. When used as part of the Henry® 1-2-3 Moisture Control System™ it is backed by an industry-leading 15-year material PLUS labor warranty for product defects.

Features and benefits



Self-seals around nails and fasteners for lasting watertightness



Can be installed at temperatures as low as 25 °F (-4 °C), keeping projects on schedule even during winter months



Split-back release for easier handling of wide sizes



Compatible with Moistop® Sealant



Advanced adhesive allows flashing to remain in place without mechanical fasteners



AAMA 711 compliant

Building Confidence™

Performance standards you can trust

Henry FortiFlash Butyl Waterproof Flashing Membrane

is tested in accordance with ASTM procedures. It is a high-performing self-adhesive waterproof membrane, designed for use as a concealed flashing in frame construction where a waterproof membrane is required.

Physical/performance property	Typical value		Test method
	20 MIL	30 MIL	
Tensile strength	MD - 70 lb./in CD - 70 lb./in	MD - 92 lb./in CD - 85 lb./in	AAMA 711 Sec 5.1
Nail sealability	Pass		AAMA 711 Sec 5.2
90° Peel adhesion			
Plywood	5.9 lb./in		AAMA 711 Sec 5.3
OSB	2.0 lb./in		
Facer	6.0 lb./in		
Service temperature	-40 °F to 250 °F		-
Application temperature	25 °F to 125 °F		-
Water resistance	>200 hours		ASTM D779

*FortiFlash Butyl is tested in accordance with ASTM procedures. The values shown are typical values obtained in these tests.

Product characteristics

Composition	Polypropylene facer film, all-butyl adhesive (contains no asphalt) and a paper release liner. The 9" and 12" sizes have a split release feature providing the capability to remove each portion of the release sheet separately.	
	20 MIL	30 MIL
Roll size	4" x 75' 6" x 75' 9" x 75' 12" x 75' 18" x 75'	9" x 75' 12" x 75' 18" x 75'
Weight (lbs. per roll)	3.75 (4") 5.6 (6") 8.5 (9") 11.5 (12")	12.75 (9") 17.25 (12") 25 (18")

Product approvals, certifications and specifications

ASTM D779 - Standard Test Method for Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Method
ASTM D1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection
ASTM E2112 - Standard Practice for Installation of Exterior Windows, Doors and Skylights
AAMA 711 - Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products
Complies as flexible flashing specified in Chapter 14 of the International Building Code and Chapter 7 of the International Residential Code



Featuring a range of compatible weather barriers, flashings and sealants, the Henry® 1-2-3 Moisture Control System makes it easier than ever to build with confidence.

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Limitations: For optimum performance, FortiFlash Butyl should be applied at temperatures between 25 °F and 125 °F. Product should be covered within 90 days of application. Inspect the product to ensure it is free of any damage that may compromise its moisture-resistive properties. Where installed horizontally or with a slope of less than 60° do not use fasteners.

Installation: Prior to installation, surfaces should be dry and cleaned free of any dirt or other substances that may interfere with adhesion, as well as any sharp protrusions. Surfaces shall have no voids, damaged, or unsupported areas. Repair surfaces before installing the membrane. Primer must be used over some substrates including gypsum board (including Dens-Glass Gold), concrete and masonry. For all other substrates field test a small sample of FortiFlash Butyl prior to application. If adhesion is inadequate, apply Aquatac™ Primer according to the manufacturer's application instructions. Areas not covered with membrane the same day must be re-primed.

Availability: Henry products are distributed nationwide. For product information and pricing, please call a Henry distributor near you. If you need assistance locating a participating distributor, please contact our Customer Service Department at 1-800-773-4777.

Henry Product Warranty Information: This product may be eligible for the 15 year Henry 1-2-3 Moisture Control System Warranty when used in conjunction with other products. See <https://us.henry.com/warranty> for details.

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

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To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied warranties is limited to the duration of Henry's express warranty.

This warranty language supersedes any language found elsewhere, including product labels, sell sheets and/or technical documents.

Henry®

Building Envelope Systems®
Wall & Window | Roof | Foundation

Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.



Physical Property	Typical Value	Test Method
Color	Blue	-
Application Temperature	20°F to +110°F (-7°C to +43°C)	-
Service Temperature	-40°F to +200°F (-40°C to +93°C)	-
Drying Time @ 50% R.H. 68°F (20°C)	Skin Time @ 25 mils (0.6 mm): 1-2 hours Cure Time @ 25 mils(0.6 mm): 24 hours	-
Elongation, min	264%	ASTM D412, modified
Tensile Strength, min	132 psi (910 kPa)	ASTM D412, modified
Crack Bridging	Pass	ASTM C1305
VOC Content, max	<25 g/L	-
Hardness, Shore A	30-35	ASTM C661
Corrosive Properties	Non-corrosive	-
Nail Sealability	Pass	AAMA 711
Asphalt Compatibility	Pass	AAMA 713
Low Temperature Flexibility @ -22°F (-30°C)	Pass	CGSB 37-GP-56M, ASTM D552
Water Vapor Permeance	12 mils: 22.9 perms 25 mils: 21.8 perms 40 mils: 10.6 perms	ASTM E96, Method B
Moisture Absorption	0.1%	ASTM D570-81
Water Resistance	Pass	AC212, ASTM D2247
Air Leakage @75 Pa	≤ 0.004 CFM/ft ² (≤ 0.02 L/[sm ²])	ASTM E2178
Adhesion	Peel after UV: >5 lbs/in (875 N/m) Peel after High Temp : >5 lbs/in (875 N/m) Peel after Water Immersion: >5 lbs/in (875 N/m) Peel after Thermal Cycling: >5 lbs/in (875 N/m)	AAMA 711
Flame Spread	20, Class A	ASTM E84
Smoke Developed	5, Class A	ASTM E84
Solids by Volume	95%	-

Description

Air-Bloc® LF is a moisture cure single-component elastomeric liquid-applied flashing using a highly advanced Silyl-Terminated Polyether (STPE) polymer. It is designed to cure through reaction with airborne moisture to provide a heavy-duty seamless rubber-like impervious membrane with excellent weathering and water resistance.

Features

- Fast curing, high solids and single component
- Low VOC, low odor
- Excellent compatibility with all Henry® air barriers and components, including rubberized asphalt
- Easy to install, no special equipment required

Usage

Air-Bloc® LF is designed for use as a concealed air barrier flashing to protect against air, water and moisture penetration around windows and doors for commercial and residential construction.

Application

Surface Prep: Substrates should be dry and clean of oil, dust, excess mortar and sharp protrusions, standing water and frost. Concrete surfaces must be cured a minimum of 14 days. Damp concrete is acceptable but must not be wet. Acceptable substrates are precast concrete, cast-in-place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, exterior-grade gypsum board, OSB and plywood. Strike masonry joints flush. Concrete surfaces must be smooth and without large voids, spalled areas or sharp protrusions. Where curing compounds are used, they must be clear resin based, without oil, wax

or pigments.

Fill open joints, seams and cracks wider than 1/8" (3 mm) up to 1/2" (13 mm) with **925 BES Sealant** or **Air-Bloc® LF** prior to final application of **Air-Bloc® LF**.

Apply: Apply **Air-Bloc® LF** to substrate in a serpentine fashion using appropriate caulking gun and then spread using a trowel, joint knife or roller to achieve a monolithic membrane over the rough opening surfaces. Regularly monitor wet mil thickness during application to assure adequate coverage. **Air-Bloc® LF** can be applied in a single coat.

Spread uncured **Air-Bloc® LF** to cover the inside of the rough opening and extend a minimum of 4" (100 mm) over the surface of the exterior wall. If a continuous air barrier such as **Air-Bloc®** or **Blueskin®** air barriers are used over the exterior wall, overlap **Air-Bloc® LF** a minimum of 2" (50 mm) over adjacent membranes.

Coverage Rates: Apply per published architectural specifications. Typical application rates include:

- **Smooth Surfaces** such as exterior gypsum sheathing or formed concrete: 10 ft² (0.9 m²) per 20 oz (0.6 L) sausage to give a wet film thickness of 25 mils (0.6 mm)
- **Rough Surfaces** such as CMU: 6 ft² (0.6 m²) per 20 oz (0.6 L) sausage to give a wet film thickness of 40 mils (1 mm)

		Coverage (Linear Feet)					
		Wet Film Thickness (mils)					
		15	20	25	30	35	40
Width (inches)	1	201	150	120	100	86	75
	2	100	75	60	50	43	38
	3	67	50	40	33	29	25
	4	50	38	30	25	21	19
	5	40	30	24	20	17	15
	6	33	25	20	17	14	13
	12	17	13	10	8	7	6
Per 20 oz. (0.6L) sausages							

		Coverage (Linear Meters)					
		Wet Film Thickness (mils)					
		15	20	25	30	35	40
Width (cm)	2.5	61.1	45.8	36.7	30.6	26.2	22.9
	5	30.6	22.9	18.3	15.3	13.1	11.5
	7.5	20.4	15.3	12.2	10.2	8.7	7.6
	10	15.3	11.5	9.2	7.6	6.5	5.7
	12.7	12.2	9.2	7.3	6.1	5.2	4.6
	15	10.2	7.6	6.1	5.1	4.4	3.8
	100	1.6	1.2	0.9	0.8	0.7	0.6
Per 20 oz. (0.6L) sausages							

The above reference chart is based on theoretical coverage calculations for a smooth surface. Rough surfaces can reduce coverage rates significantly depending on texture and porosity of surface.

Limitations: **Air-Bloc® LF** can be exposed for up to 6 months but is not designed for permanent exposure to ultra-violet light and should be covered as soon as practical after application. Application at temperatures below 40°F (4°C) will slow curing. In low humidity conditions, curing may be aided by lightly misting **Air-Bloc® LF** with water.

Many silicone sealants show excellent adhesion to **Air-Bloc® LF**. Contact the sealant manufacturer for more information.

Packaging

20 oz (0.6 L) sausages

Storage

Shelf life of **Air-Bloc® LF** is 12 months in unopened containers when stored in dry conditions. Protect from weather or store in an enclosed area not subject to heat over 80°F (27°C). Packaging should always be kept sealed when not in use.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

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A step 2 component of the Henry® 1-2-3 Moisture Control System™

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Henry® FortiFlex® Butyl Waterproof Flashing Membrane



Flashing that's ahead of the curve

Windows and doors are often the most vulnerable spots for moisture penetration, and arched designs present additional challenges. **FortiFlex® Butyl Flexible Flashing Membrane** can handle them. Designed to provide highly-conformable protection against moisture intrusion in curved openings, sill pans and more, **FortiFlex Butyl** features an advanced hybrid butyl compound for high tack even in low temperatures. Its high-performance, lightweight creped film delivers exceptional stretch and durability, plus minimal bunching at tight corners.

As part of the Henry® 1-2-3 moisture control system™, **FortiFlex Butyl** is backed by an industry-leading 15-year material PLUS labor warranty.

Features and benefits



Self-seals around nails and fasteners for lasting watertightness



Can be installed at temperatures as low as 10 °F (-12 °C), keeping projects on schedule even during winter months



Split-back release for easier handling of wide sizes



Advanced adhesive allows flashing to remain in place without mechanical fasteners



Resists UV exposure for up to one year



AAMA 711 compliant

Building Confidence™

Performance standards you can trust

FortiFlex Butyl Flexible Flashing Membrane is tested in accordance with ASTM International procedures. It is a flexible, conformable, self-adhesive flexible flashing designed to prevent incidental moisture intrusion around windows and doors.

Physical/performance property	Typical value	Test method
Tensile strength	MD - 225psi CD - 330psi	AAMA 711 Sec 5.1
Nail sealability	Pass	AAMA 711
Service temperature	-40 °F to 200 °F	AAMA 711 (Modified)
Application temperature	10 °F to 150 °F	-
Water vapor permeance	<0.1 perms	ASTM E96 (A)
Low temperature flexibility	Pass	ASTM D1970
Water resistance	>24 hours	ASTM D779

*FortiFlex Butyl is tested in accordance with ASTM International procedures. The values shown are typical values obtained in these tests.

Product characteristics

Composition	A hybrid butyl adhesive laminated to high-performance creped film.
Roll size	6" x 50' 9" x 50'
Weight (lbs. per roll)	6 (6") 9 (9")
Thickness	54 mil

Product approvals, certifications and specifications

ASTM D779 - Standard Test Method for Water Resistance of Paper, Paper-board and Other Sheet Materials by the Dry Indicator Method

ASTM D1970 - Standard Specification for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection: Low Temperature Flexibility

ASTM E2112 - Standard Practice for Installation of Exterior Windows, Doors and Skylights

AAMA 711 - Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products

Complies as flexible flashing specified in Chapter 14 of the International Building Code and Chapter 7 of the International Residential Code



Featuring a range of compatible weather barriers, flashings and sealants, the Henry® 1-2-3 Moisture Control System™ makes it easier than ever to build with confidence.

Henry, Building Envelope Systems, and FortiFlex are registered trademarks of the Henry Company

Limitations: For optimum performance, FortiFlash Butyl should be applied at temperatures between 10 °F (-12 °C) and 150 °F (66 °C). Maximum service temperature is 200 °F (93 °C). Product should be covered as soon as practical; maximum exposure 12 months. FortiFlex Butyl may not be compatible with some sealants. Test for compatibility before using any sealants. Performance is guaranteed with Moistop® Sealant and Liquid Flashing, which adheres to, and is compatible with FortiFlex Butyl when installed per Henry instructions. FortiFlex Butyl is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based membranes.

Installation: Position FortiFlex Butyl for alignment with release film in place. Roll back, peel away release film and press membrane firmly over substrate. When membrane is entirely in place, apply pressure along entire membrane to ensure a strong bond. The best method to ensure full contact is to roll entire surface with a J Roller. Orient laps in shingle fashion to shed water with a minimum of 2 in. (50 mm) on both side and end laps. (When using membrane with brick ties, position membrane, press in place and cut for ties or projections.) FortiFlex Butyl can be used without primer on dry and clean substrates when the temperature is above 10 °F (-12 °C). For best possible adhesion results or when applying to concrete or masonry, prime substrate with Aquatac primer.

Availability: Henry products are distributed nationwide. For product information and pricing, please call a Henry distributor near you. If you need assistance locating a participating distributor, please contact our Customer Service Department at 1-800-773-4777.

Henry Product Warranty Information: This product may be eligible for the 15 year Henry 1-2-3 Moisture Control System Warranty when used in conjunction with other products. See <https://us.henry.com/warranty> for details.

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS OR DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN WITHIN 30-DAYS OF PURCHASE ALL UNOPENED CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND. RETENTION OF PRODUCT BEYOND 30-DAYS, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANYTHING RELATING TO THE PRODUCT.

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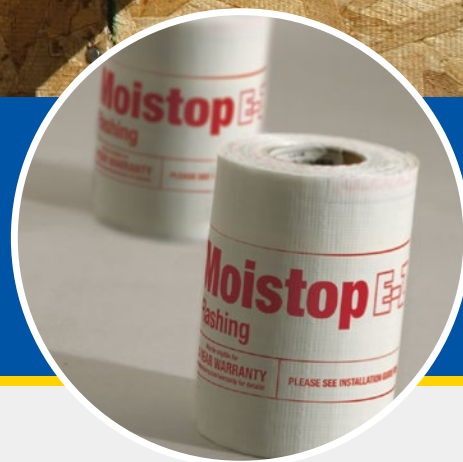
Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.



A step 2 component of the Henry® 1-2-3 Moisture Control System™



Henry® Moistop E-Z Seal® Flashing



Industry-leading moisture protection

An industry benchmark in self-adhesive flashing, **Henry® Moistop E-Z Seal®** helps eliminate moisture intrusion that can lead to related structural failures, mold and mildew.

With its unique construction and reinforced polymer membrane, **Moistop E-Z Seal** rises above the competition. Featuring a 3" adhesive backing strip, the flashing enables trouble-free, secure attachment to structures, while making it exceptionally easy to integrate the non-adhered portion with the weather-resistive barrier.

As part of the Henry® 1-2-3 moisture control system, **Moistop E-Z Seal** is designed to withstand the rigors of the job site and the elements, and is backed by an industry leading 15-year material PLUS labor warranty.

Features and benefits



Ultra-high performance water barrier designed to withstand extreme wind-driven weather conditions



One of the strongest adhesives in the industry, bonding reliably to plywood, OSB and aluminum, as well as wood and vinyl windows.



Complies with ASTM D779, providing water resistance for up to 150 hours

Performance standards you can trust

Moistop E-Z Seal Flashing is tested in accordance with ASTM International procedures. It is a premium, self-adhesive, flashing membrane designed to prevent incidental moisture intrusion around windows and doors.

Physical/performance property	Typical value	Test method
Water vapor permeance	<0.1 perms (<0.3 g/m ² /day)	ASTM E96 (A)
Water resistance	150 hours	ASTM D779
Tensile strength	MD - 30 lb./inch CD - 35 lb./inch	ASTM D882
Adhesion	Steel - 9 lbs./in Backing - 6 lbs./in Plywood - 5 lbs./in	PSTC1
Mold growth	0 Fungal Growth	ASTM G21
Application temperature	40 °F to 120 °F (4.4 °C to 48.9 °C)	
Service temperature	-40 °F to 176 °F (-40 °C to 80 °C)	

*Moistop E-Z Seal is tested in accordance with ASTM International procedures. The values shown are typical values obtained in these tests..

Product characteristics

Composition	Reinforced polymer membrane coated with a 3" self-adhesive strip. The adhesive layer is protected by an easy-to-remove release liner. The 4" product is fully backed with adhesive. Thickness is 25 mils (with adhesive); 10 mils (reinforced membrane only).
Roll size	6", 9" and 12" x 75'
Weight (lbs. per roll)	4 (6", 9") 5 (12")

Product approvals, specifications and certifications

ASTM D779 - Standard Test Method for Water Resistance of Paper, Paperboard, and Other Sheet Materials by the Dry Indicator Method
ASTM D882 - Standard Test Method for Tensile Properties of Thin Plastic Sheeting
ASTM E96 - Water Vapor Transmission of Materials
ASTM G21 - Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi
PSTC1 - Peel Adhesion of Single Coated Tapes, 180 Degree Peel
AAMA 711 - Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products
Complies as flexible flashing specified in Chapter 14 of the International Building Code and Chapter 7 of the International Residential Code



Featuring a range of compatible weather barriers, flashings and sealants, the Henry® 1-2-3 Moisture Control System by makes it easier than ever to build with confidence.

Henry, Moistop E-Z Seal, and Building Envelope Systems are registered trademarks of the Henry Company

Limitations: For optimum adhesion, Moistop E-Z Seal should be applied at temperatures between 40 °F (4.4 °C) and 120 °F (48.9 °C). Product should not be installed horizontally or at a slope of less than 60°. Product should be covered as soon as possible. Maximum exposure is 60 days. Moistop E-Z Seal is not compatible with some sealants. Test for compatibility prior to use. Moistop E-Z Seal is compatible with Moistop® Sealant.

Installation: Prior to installation, surfaces should be dry and cleaned free of any dirt or other substances that may interfere with adhesion, as well as any sharp protrusions. Surfaces shall have no voids, damaged or unsupported areas. Repair surfaces before installing membrane. To apply, peel away the release film and place E-Z Seal onto substrate. Apply firm pressure with a metal or wood roller along the entire adhesive strip to ensure a continuous seal.

Henry Product Warranty Information: This product may be eligible for the 15-year Henry 1-2-3 Moisture Control System Warranty when used in conjunction with other products. See <https://us.henry.com/warranty> for details.

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS OR DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN WITHIN 30-DAYS OF PURCHASE ALL UNOPENED CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND. RETENTION OF PRODUCT BEYOND 30-DAYS, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANYTHING RELATING TO THE PRODUCT.

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Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.



A step 2 component of the Henry® 1-2-3 Moisture Control System™

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Henry® FortiFlash® Waterproof Flashing Membrane



Premium protection against water intrusion

Henry® FortiFlash® Waterproof Flashing Membrane is engineered to deliver long-lasting, cost-effective protection against water intrusion in the most demanding environments. Featuring self-adhesive installation, **FortiFlash** is ideal for use around windows and doors, as well as non-roofing horizontal applications such as pot shelves, parapets, sill pans and recessed windows.

FortiFlash Waterproof Flashing Membrane is easy to use on the jobsite and is backed by an industry-leading 15-year warranty that covers defective product and provides materials PLUS labor for warranted repairs when used as part of the Henry® 1-2-3 Moisture Control System™.

Features and benefits

-  Highly cost-effective protection against moisture
-  Optimal adhesion allows flashing to remain in place without mechanical fasteners
-  Self-seals around nails and fasteners for lasting watertightness
-  Exceptional tear resistance
-  AAMA 711 compliant
-  Compatible with Moistop® Sealant

Building Confidence™

Performance standards you can trust

FortiFlash Waterproof Flashing Membrane features a self-sealing rubberized asphalt core and is designed for use as a concealed flashing in frame construction where a waterproof membrane is required.

Physical/performance property	Typical value		Test method
	25 MIL	40 MIL	
Application temperature	40 °F to 120 °F (4.4 °C to 48.9 °C)		-
Service temperature	-40 °F to 149 °F (-40 °C to 65 °C)		-
Lap adhesion	9.3 lb./inch	10 lb./inch	ASTM D903
Puncture resistance	40 lb _f		ASTM E154
Water vapor permeance	<0.08 perms	<0.05 perms	ASTM E96
Water resistance	>200 hours		ASTM D779

*FortiFlash is tested in accordance with ASTM International procedures. The values shown are typical values obtained in these tests.

Product characteristics

Composition	Asphalt adhesive that is laminated to polyolefin film reinforcement with a siliconized paper release sheet.	
Roll size	4", 6", 9", 12", 18" or 36" x 75'	
	25 MIL	40 MIL
Weight (lbs. per roll)	3.8 (4")	5.7 (4")
	5.7 (6")	8.6 (6")
	8.5 (9")	13 (9")
	11.4 (12")	17 (12")
	15 (18")	26 (18")
	30 (36")	52 (36")

Product approvals, certifications and specifications

Complies with the International Code Council Evaluation Services Acceptance Criteria for Flashing Materials (AC 148)
Complies as flexible flashing specified in Chapter 14 of the International Building Code and Chapter 7 of the International Residential Code
ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension
ASTM D779 - Standard Test Method for Water Resistance of Paper, Paperboard and Other Sheet Materials by the Dry Indicator Method
ASTM D903 - Peel or Stripping Strength of Adhesive Bonds
ASTM E96 - Water Vapor Transmission of Materials
ASTM E154 - Standard Test Methods for Water Vapor Retarders Used in Contact with Earth Under Concrete Slabs, on Walls, or as Ground Cover
AAMA 711 - Voluntary specification for self-adhering flashing



Featuring a range of compatible weather barriers, flashings and sealants, the Henry® 1-2-3 Moisture Control System™ makes it easier than ever to build with confidence.

Henry, Building Envelope Systems, and FortiFlash are registered trademarks of the Henry Company

Limitations: For optimum adhesion, FortiFlash should be applied at temperatures between 40 °F (4.4 °C) and 120 °F (48.9 °C). Be cautious about using FortiFlash where it can be exposed to temperatures above its Service Temperature such as hot climates or behind fiber cement and metal sidings that absorb a significant amount of heat. Product should be covered as soon as possible (exposure not to exceed 60 days). Inspect product to ensure it is free of any damage which may compromise its moisture-resistive properties. FortiFlash is not compatible with EPDM or flexible (plasticized) Polyvinyl Chloride (PVC) based membranes. Where installed horizontally or with a slope of less than 60° do not use fasteners. FortiFlash also is not compatible with some sealants. Consult with sealant manufacturer for compatibility information. Direct exposure of sealant to the adhesive side of FortiFlash can be detrimental if the amount of sealant exceeds what is specified in Henry's installation guide. Please follow installation guide recommendations regarding location and amount of sealant to be used. Henry strongly recommends using Moistop® Sealant for any installation where sealant may come in contact with the FortiFlash adhesive.

Installation: Prior to installation, surfaces should be dry and cleaned free of any dirt or other substances that may interfere with adhesion, as well as any sharp protrusions. Surfaces shall have no voids, damaged, or unsupported areas. Repair surfaces before installing membrane. Primer must be used over some substrates including gypsum board (including Dens-Glass Gold), concrete and masonry. For all other substrates field test a small sample of FortiFlash prior to application. If adhesion is inadequate, apply Aquatac™ Primer or 3M Super 77® Spray Adhesive according to the manufacturer's application instructions. Areas not covered with membrane the same day must be re-primed.

To apply FortiFlash, peel away the release paper and press membrane firmly over substrate, applying sufficient pressure with a metal or wood roller along the entire membrane to ensure a continuous seal.

Availability: Henry products are distributed nationwide. For product information and pricing, please call a Henry distributor near you. If you need assistance locating a participating distributor, please call our Customer Service Department at 1-800-773-4777.

Henry Product Warranty Information: This product may be eligible for the 15-year Henry 1-2-3 Moisture Control System Warranty when used in conjunction with other products. See <https://us.henry.com/warranty> for details.

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

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An accessory component of the Henry® 1-2-3 Moisture Control System™

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**SUPER
Jumbo**
Weather-Resistive

ASTM E2556 Type II
Conforms to Federal
UU-B-790a Type 1

WeatherSmart
Rainscreen
www.henry.com

Henry® WeatherSmart® Rainscreen

Durable drainage and ventilation

Moisture will eventually find its way into any wall assembly, but **Henry® WeatherSmart® Rainscreen** gets moisture out of the wall system to prevent mold and rot.

Compatible with all standard cladding types, **WeatherSmart Rainscreen** provides a 6mm gap between cladding and weather-resistive barrier, creating space for ventilation. The 3D matrix polypropylene strands channel water down and out of the wall assembly and the built-in fabric protects the gap from debris. The result is faster drying wall assemblies and reduced risk of unhealthy mold, rot and mildew.

WeatherSmart Rainscreen is an accessory to the Henry® 1-2-3 Moisture Control System™ of flashings, weather-resistive barriers and sealants. All system components can be used together with confidence.

WeatherSmart Rainscreen may carry a 15-year warranty.

Features and benefits



Creates gap between weather-resistive barrier and cladding that enhances ventilation and improves drying



Serves as a protective layer between stucco and weather-resistive barrier



Compression-resistant polypropylene strands channel water down and out of wall system



Reduces risk of mold and mildew for better building health



Meets code requirements (6mm)



Compatible with all standard cladding types

Building Confidence™

Performance standards you can trust

WeatherSmart Rainscreen is an advanced rainscreen system featuring a 3D matrix of heavy polypropylene strands with a fabric backing that provides a fast-drying gap for reliable drainage and ventilation.

Physical/performance property	Typical value	Test method
Flamespread	Class A	ASTM E84
Drainage efficiency	>94%	ASTM 2925
Air ventilation	1.27 L/s @ 10 Pa	ASTM D2950

*WeatherSmart Rainscreen is tested in accordance with ASTM International procedures. The values shown are typical values obtained in these tests.

Product characteristics

Gap height (core thickness)	6mm (.24 inches)
Total thickness	7.1mm
Mat (core) composition	Polypropylene
Fabric composition	Nylon and Polyester
Roll size	39" x 61.6 lineal ft.
Roll weight	13.6 lbs.

Product approvals, certifications and specifications

ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials

ASTM 2925 - Standard Specification for Manufactured Polymeric Drainage and Ventilation Materials Used to Provide a Rainscreen Function

ASTM D2950 - Standard Test Method for Density of Bituminous Concrete in Place by Nuclear Methods



Featuring a range of compatible weather barriers, flashings and sealants, the Henry® 1-2-3 Moisture Control System™ makes it easier than ever to build with confidence.

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Limitations: Consult local building codes and regulations prior to installation. For use on vertical, above grade walls only. Not for roofs or below grade installations. Cover rainscreen as soon as possible, exposure not to exceed 30 days. Exterior finish materials should be installed according to manufacturer's installation guidelines. Butt edges together to maintain a flat surface; do not overlap 3D matrix.

Installation: Install over weather-resistive barrier (WRB) with fabric side facing out after windows and doors have been installed and flashed. Begin at the bottom of the wall with fabric flap facing down and fasten to sheathing or studs using non-corrosive nails or staples. Avoid fastening through flashing or weep screeds and do not over-fasten. Butt edges together to maintain a flat surface; do not overlap 3D matrix.

To prevent insects from getting inside the air gap at the base of the wall, fold the filter fabric flap around the bottom of the rainscreen and tuck between the entangled filaments and the WRB. Place the second course of rainscreen with the fabric flap at the bottom. Butt top edge of bottom course matrix to the bottom edge of the matrix on the new course, maintaining a flat surface. The fabric edge of the new course should overlap the 3D matrix of the prior course in shingle fashion. Use this method for remaining courses. For the last course, rainscreen can be applied so the fabric edge is at the top. The fabric can be tucked behind the 3D matrix in front of the WRB to screen out insects. If installing with stucco or masonry, install rainscreen over weather-resistive barrier with fabric side facing out to prevent stucco from blocking drainage. Use tape to secure any seams that are not lapped with the fabric flap to prevent stucco from getting behind rainscreen. Lath can be installed directly on top of rainscreen.

Availability: Henry products are distributed nationwide. For product information and pricing, please call a Henry distributor near you. If you need assistance locating a participating distributor, please call our Customer Service Department at 1-800-773-4777.

Henry Product Warranty Information: This product may be eligible for the 15-year Henry 1-2-3 Moisture Control System Warranty when used in conjunction with other products. See <https://us.henry.com/warranty> for details.

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A step 3 component of the Henry® 1-2-3 Moisture Control System

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Henry® Moistop® Sealant



Completely compatible moisture resistance

Designed to make weatherization easier and save time on the jobsite, **Henry® Moistop® Sealant** is both a moisture-resistant sealant and a flashing. Fully compatible with all Henry products, **Moistop Sealant** delivers excellent adhesion and moisture resistance on a wide range of building materials, surfaces and structures. It also provides flexible, gap-free flashing even around curved intrusions and can fill construction joints up to ½ inch thick.

Part of the Henry® 1-2-3 moisture control system, **Moistop Sealant** is designed to withstand the rigors of the jobsite and the elements, and is backed by an industry-leading 15-year material PLUS labor warranty.

Features and Benefits



Exceeds AAMA 808.3 and ASTM C920 standards



Optimal adhesion on most surfaces



Conforms to any shape and fills joints up to ½" wide



Paintable and durable



Excellent balance between water resistance and permeability

Building Confidence™

Performance standards you can trust

Moistop Sealant is continually tested in accordance with AAMA and ASTM procedures. It provides an exterior perimeter sealing compound for windows and doors that is compatible with most commonly used building materials.

Physical/performance property	Typical value	Test method
Peel adhesion:	20 lb/in Pass	ASTM C794 AAMA 799
Tensile maximum:	200 psi (1.38 N/mm ²)	ASTM D412
Elongation:	450%	ASTM D412
Max VOC:	9 g/l (.075 lbs/gal)	ASTM D3960
Hardness:	30 ±5	ASTM C661
Service temperature:	-40 °F to 180 °F (-40 °C to 82.2 °C)	-
Application temperature:	40 °F to 110 °F (4.4 °C to 43.3 °C)	-
Tack time:	<1 hour	1/4" (6.34 mm) diam. bead @ 77 °F (25 °C) 50% R.H.
Cure time:	24 hours	1/4" (6.34 mm) diam. bead @ 77 °F (25 °C) 50% R.H.
Movement capability	±25%	ASTM C719
Liquid applied flashing:	Pass	AAMA 714-15

*Moistop is continually tested in accordance with ASTM procedures. The values shown are typical values obtained in these tests.

Product characteristics

Composition	One component, moisture curing, non-sag, gun-grade elastomeric polymer for use as a sealant or liquid applied flashing.
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Approximate coverage (Ln. Ft. per 10 oz.)

	Sealant	Liquid applied flashing 25 mil	40 mil
3/8" Bead	30'	-	-
4" width	-	15'	10'
6" width	-	10'	6'

Product approvals and certifications

ASTM C920 Type S, Grade NS, Class 25, Use-NT, Use-A, Use-M, Use-G, Use-O
AAMA 808.3-92 (Exterior Perimeter Sealing Compound)
AAMA 714-15



Featuring a range of compatible weather barriers, flashings and sealants, the Henry® 1-2-3 Moisture Control System makes it easier than ever to build with confidence.

Henry and Moistop are registered trademarks of the Henry Company

Limitations: Not recommended for unprimed masonry joints that will be subjected to continuous water immersion; joints that are contaminated with grease, wax, corrosion or cement laitance; horizontal joints in floor or decks where physical abuse is encountered; special architectural finishes without proper testing. Not compatible with solvent-based paints.

Installation: Moistop Sealant should be applied when temperatures are between 40 °F and 112 °F. Do not apply to frost-bearing surfaces or when temperatures have been below freezing for more than 24 hours immediately prior to installation. Tooling techniques using solvents or soapy solutions are not recommended; sealant cannot be cleaned/tooled uncured with solvents (isopropyl alcohol is recommended). All surfaces must be evaluated for adhesion prior to product acceptance.

Compatibility and Adhesion: It is expected that Moistop Sealant will adhere and perform in uncontaminated joints with most common construction substrates. Substrates include but are not limited to concrete, exterior gypsum, stucco, EIFS, aluminum, galvanized surfaces, glass, wood and polyvinyl chloride (PVC). Due to the vast numbers and types of surface coatings and treatments available, Henry recommends pretesting Moistop Sealant on the surface in question. Sealant compatibility testing is not required for Henry's full line of flashing products and weather-resistive barriers. All surfaces should be clean and clear of any surface contamination. In the case of some exotic coatings, priming or other surface treatment may be necessary.

Shelf Life: Moistop Sealant will exhibit a ten (10) month shelf life when stored at temperatures not exceeding 75 °F. "Use by" date is printed on each tube.

Availability: Henry products are distributed nationwide. For product information and pricing, please call a Henry distributor near you. If you need assistance locating a participating distributor, please call our Customer Service Department at 1-800-773-4777.

Precautions: IF THIS PRODUCT IS USED IN DIRECT CONTACT WITH ANY OTHER SEALANT OR ELASTOMER, A COMPATIBILITY TEST MUST BE CONDUCTED BY PURCHASER OR USER, PRIOR TO ACCEPTANCE. MOISTOP SEALANT AND LIQUID FLASHING IS NOT COMPATIBLE WITH OXIME CONTAINING SILICONE SEALANTS. The suitability of this product, for each intended use, must be determined by the purchaser prior to acceptance. Avoid skin contact. On contact, uncured sealant could cause irritation to the skin and eyes. In the case of eye contact, flush immediately with warm water for at least 15 minutes and call a physician. For skin contact, remove with a towel and wash the affected area with a citrus-based hand cleaner. If swallowed, do not induce vomiting; call a physician. This product is manufactured for industrial use only. Refer to Safety Data Sheet (SDS) on the company's website at www.henry.com for further information. For medical emergency call Henry Technical Support at 800-773-4777.

Henry Product Warranty Information: This product may be eligible for the 15-year Henry 1-2-3 Moisture Control System Warranty when used in conjunction with other products. See <https://us.henry.com/warranty> for details.

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS OR DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN WITHIN 30-DAYS OF PURCHASE ALL UNOPENED CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND. RETENTION OF PRODUCT BEYOND 30-DAYS, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANYTHING RELATING TO THE PRODUCT. To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied warranties is limited to the duration of Henry's express warranty.

This warranty language supersedes any language found elsewhere, including product labels, sell sheets and/or technical documents.

Henry®

Building Envelope Systems®
Wall & Window | Roof | Foundation

Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.



TECHNICAL DATA SHEET
212 All Purpose Sealant
Crystal Clear Sealant

Physical Property	Typical Value	Test Method
Color	Clear	-
Application Temperature	32°F to 110°F (0°C to 43°C)	-
Service Temperature, cured	-40°F to 180°F (-40°C to 82°C)	-
Durometer Hardness, max	55 Shore A	ASTM D2240
Elongation, min	200%	ASTM D412
Flash Point	75°F (24°C)	ASTM D93
Dry Time	Initial Set: 30 min Set Through: 3 to 7 days at RT	-
Peel Strength, min	Aluminum/Glass: 5 p.i.w. (22N)	ASTM D412
Specific Gravity	1.06 at 77°F (25°C)	-
VOC Content, max	350 g/L	-

Description

212 All Purpose Crystal Clear Sealant is a one-part, highly elastic, high-performance thermoplastic sealant. The sealant exhibits excellent adhesion to a variety of construction materials. It can be applied to wet or dry surfaces and has excellent low temperature flexibility. It is non-staining, non-sagging and skins over, tack free within 30 minutes.

Features

- Provides clear, invisible patch
- Goes on clear and cures clear
- Remains flexible - no cracking
- Excellent adhesion, even on wet surfaces

Application

Prep: **212 All Purpose Crystal Clear Sealant** should only be applied to sound surfaces that are free from oil, grease, wax, dust, corrosion, or any material that may interfere with obtaining optimum adhesion.

Concrete and Masonry: Fresh concrete should be fully cured and dried. This may require as much as 3 to 4 weeks. If surfaces are dusty, they should be blown or brushed free and cleaned. Mold release agents or curing agents should be removed, as they will prevent good adhesion.

Aluminum and other Non-Ferrous: If the surface has previously been sealed or exposed to the air for a period of time, remove all previous compounds or surface oxidation by wire brushing.

Steel: Remove all corrosion or coatings by wire brushing.

Glass / Fiberglass: Wipe, if necessary, the surfaces to be sealed with clean, oil-free solvent and dry thoroughly.

Wood: Remove all paint and other loose coatings. Sand to provide a good, clean surface.

Apply: For neatness of joint, adjacent surfaces can be masked with tape. Apply sealant in the joint from the bottom up, filling completely and avoiding entrapping air. Tool the surface for appearance and ensure adequate adhesion between the sealant and the joint sides. Dry tooling is preferred. As soon as application and tooling is complete, remove any masking tape. In joints up to ½" (13 mm) wide, the depth of the sealant should be equal to the width, but not less than ⅛" (3 mm). When joints are greater than the desired depth, they should be packed with a supplementary material, such as backer rod.

Coverage: Cartridge: nominal 15 lineal feet (4.6 m) based on ⅝" (10 mm) bead
Quart: nominal 3 ft² (0.28 m²) applied ⅛" (3 mm) thick by trowel

Limitations: Do not use on insulated glass panels, laminated glass edges or polystyrene. Not intended for interior use. Direct contact with asphalt based building materials may result in some bleed-through, staining or discoloration.

212 All Purpose Crystal Clear Sealant

Clean-up

Complete clean-up before sealant cures with mineral spirits. Clean hands with a waterless hand cleaner.

Packaging

10.1 oz. cartridge
1 Quart

Storage

212 All Purpose Crystal Clear Sealant has a shelf life of 12 months from date of manufacture, when stored in original unopened container at or below 80°F (26°C). Containers should always be kept sealed when not in use.

For more information, visit www.henry.com or for technical assistance call us at 800-486-1278. For more information on Henry's® product warranty and liability disclaimer please visit www.henry.com/warranty. Refer to the Safety Data Sheet prior to using this product. The Safety Data Sheet is available at www.henry.com or by emailing Henry® Product Support at productsupport@henry.com or by calling 800-486-1278.

® Henry is a registered trademark of Henry Company

The technical and application information herein is based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use. Henry® Company data sheets are updated on a regular basis; it is the user's responsibility to obtain and to confirm the most recent version. Information contained in this data sheet may change without notice.



SAFETY DATA SHEET

Issue Date 25-May-2016

Revision Date 25-May-2016

Version 1

1. IDENTIFICATION

Product identifier

Product Name BLUESKIN VP100

Other means of identification

Product Code HE100GUSA

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Waterproofing Sealers Water transport

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address

HENRY COMPANY

999 N. Sepulveda Blvd., Suite 800

El Segundo, CA 90245-2716

Web Site: www.henry.com www.ca.henry.com

Emergency telephone number

Company Phone Number 800-486-1278

Emergency Telephone CHEMTREC: 800-424-9300

CHEMTREC: 703-527-3887

CANUTEC: 613-966-6666

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label elements

Emergency Overview

Not classified

Hazard statements

None

Appearance sheet

Physical state Solid

Odor Slight

Precautionary Statements - Prevention

Not applicable

Precautionary Statements - Response

Not applicable

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

Not applicable.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Not applicable

Mixture

This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

Chemical Name	CAS No	Weight-%
Modified polyolefin *	Proprietary	60 - 100
Polyethylene *	9002-88-4	10 - 30

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures**

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.
Eye contact	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Wash contaminated clothing before reuse.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms	None known.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
---------------------------	------------------------

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required.

Environmental precautions

Environmental precautions Collect spillage. Dispose of contents/container to an approved waste disposal plant.

Methods and material for containment and cleaning up

Methods for containment No information available.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This article doesn't contain hazardous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be

required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Solid	Odor	Slight
Appearance	sheet	Odor threshold	No information available
Color	blue		
Property	Values	Remarks • Method	
pH	Not applicable		
Melting point / freezing point	No information available		
Boiling point / boiling range	No information available		
Flash point	No information available		
Evaporation rate	No information available	Not applicable	
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	0		
Vapor density	No information available		
Relative density	>1		
Water solubility	Insoluble in water		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature	>260 °C / >500 °F		
Decomposition temperature	No information available		
Kinematic viscosity	No information available	Not applicable	
Dynamic viscosity	No information available	Not applicable	
Explosive properties	Not an explosive		
Oxidizing properties	Not applicable		

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Storage near to reactive materials. elevated temperature.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Inhalation	None known.
Eye contact	None known.
Skin contact	None known.
Ingestion	No data available.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Polyethylene 9002-88-4	= 8 g/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Polyethylene 9002-88-4	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
 Not classifiable as a human carcinogen*

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information**12. ECOLOGICAL INFORMATION****Ecotoxicity**

None known

100 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION**International Inventories**

TSCA	Complies
DSL/NDL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X

Issue Date 25-May-2016

Revision Date 25-May-2016

Revision Note

No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Section 1: Summary

CONTENT INVENTORY

Threshold per material

- ☒ 100 ppm
- ☐ 1,000 ppm
- ☐ Per GHS SDS
- ☐ Per OSHA MSDS
- ☐ Other

Residuals and impurities considered in

- 1 of 1 materials
- ☒ see Section 2: Material Notes
- ☒ see Section 5: General Notes

Based on the selected Content Inventory Threshold:

Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
Are the Percent Weight and Role provided for all substances?	Yes	No
Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
Identified.....	<input checked="" type="radio"/>	<input type="radio"/>
Are all substances disclosed by Name (Specific or Generic) and Identifier?	Yes	No

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

VP100 [POLYPROPYLENE **LT-UNK** POLYETHYLENE **LT-UNK** BENZENE, ETHENYL-, POLYMER WITH 2-METHYL-1,3-BUTADIENE **LT-UNK** BUTYL RUBBER **LT-UNK** 2,4,8,10-TETRAOXA-3,9-DIPHOSPHASPIRO(5.5)UNDECANE, 3,9-BIS(2,4-BIS(1,1-DIMETHYLETHYL)PHENOXY)- **LT-UNK**]

Number of Greenscreen BM-4/BM3 contents..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-UNK
Nanomaterial..... No

INVENTORY AND SCREENING NOTES:

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: January 31, 2017	EXPIRY DATE*: January 31, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: January 31, 2017	* or within 3 months of significant change in product contents
*See HPDC website for details			



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

VP100

#: 100.0000 - 100.0000 HPD URL:

Inventory Threshold: 100 ppm Residuals Considered: Yes

Material Notes:

POLYPROPYLENE

ID: 9003-07-0

#: 45.0000 - 65.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Protective
polymer film

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYETHYLENE

ID: 9002-88-4

#: 25.0000 - 35.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Polymer film

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

BENZENE, ETHENYL-, POLYMER WITH 2-METHYL-1,3-BUTADIENE

ID: 25038-32-8

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Adhesion

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

BUTYL RUBBER

ID: 9010-85-9

#: 1.0000 - 5.0000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Adhesion

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

2,4,8,10-TETRAOXA-3,9-DIPHOSPHASPIRO(5.5)UNDECANE, 3,9-BIS(2,4-BIS(1,1-DIMETHYLETHYL)PHENOXY)-

ID: 26741-53-7

%: 0.0100 - 0.1000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Antioxidant

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:**Section 3: Certifications and Compliance**

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

**Section 4: Accessories**

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

AQUATAC PRIMER**HPD URL: No HPD link provided**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Used as a primer prior to Blueskin VP100 application.

**Section 5: General Notes**



MANUFACTURER INFORMATION

MANUFACTURER: Henry Company

ADDRESS: 999 N. Sepulveda Blvd.
Suite 800
El Segundo, CA 90245
USA

WEBSITE: www.henry.com

CONTACT NAME: Whitney Randall

TITLE: Director, Regulatory Compliance Systems

PHONE: 484-557-1247

EMAIL: wrandall@henry.com

KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity

END Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

MAM Mammalian/systemic/organ toxicity

MUL Multiple hazards

NEU Neurotoxicity

OZO Ozone depletion

PBT Persistent Bioaccumulative Toxic

PHY Physical Hazard (reactive)

REP Reproductive toxicity

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

LAN Land Toxicity

NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement) **BM-2**
Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (insufficient data to benchmark)

LT-P1 List Translator Possible Benchmark 1

LT-1 List Translator Likely Benchmark 1

LT-UNK List Translator Benchmark Unknown (insufficient
information from List Translator lists to benchmark)

UNK Unknown (no data on List Translator Lists)

Recycled Types

PreC Preconsumer (Post-Industrial)

PostC Postconsumer

Both Both Preconsumer and Postconsumer

Unk Inclusion of recycled content is unknown

None Does not include recycled content

Other

Nano Composed of nanoscale particles or nanotechnology

Declaration Level

Self-declared Manufacturer's self-declaration (First Party)

Independent Lab Manufacturer's self-declaration using results from an independent lab

Second Party Verification by trade association or other interested party

Third Party Verification by independent certifier

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator, and when available, full GreenScreen assessments. The HPD Open Standard does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD Open Standard noted.



Blueskin VP100
Henry Company LLC

Final Assembly: Kimberton, Pennsylvania, USA
Life Expectancy: Life of Structure Year(s)
End of Life Options: Landfill (100%)
EU CoC Screened: Does Not Contain

Ingredients:

Polypropylene; Polyethylene; 1,3-Butadiene, 2-methyl-, polymer with 2-methyl-1-propene; Benzene, ethenyl-, polymer with 2-methyl-1,3-butadiene; 2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-bis[2,4-bis(1,1-dimethylethyl)phenoxy]-

Living Building Challenge Criteria: Compliant

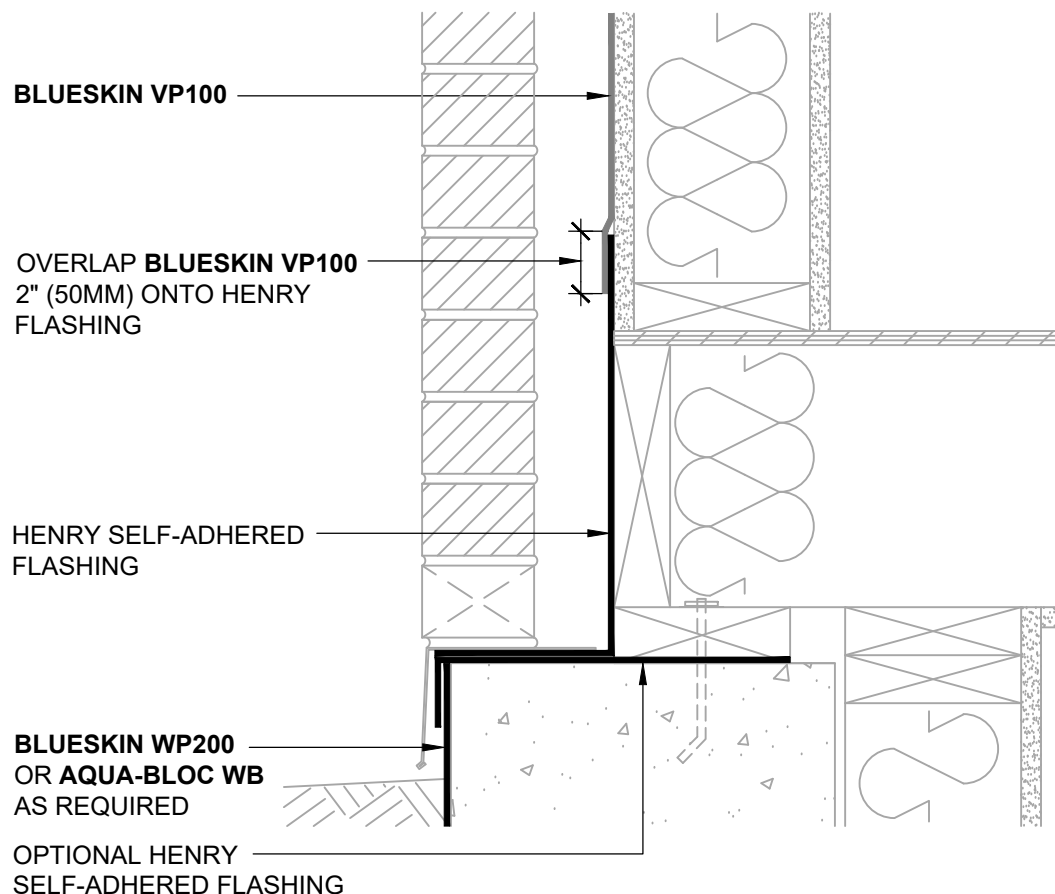
I-13 Red List:

- | | |
|---|-----------------------------|
| <input checked="" type="checkbox"/> LBC Red List Free | % Disclosed: 100% at 100ppm |
| <input type="checkbox"/> LBC Red List Approved | VOC Content: Not Applicable |
| <input type="checkbox"/> Declared | |

I-10 Interior Performance: Not Applicable

I-14 Responsible Sourcing: Not Applicable

HCO-0001
EXP. 01 DEC 2023
SCREENED: 01 NOV 2022
Original Issue Date: 2017



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
9. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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A CARLISLE COMPANY

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El Segundo, CA 90245
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER WALL FOUNDATION

EXTERIOR WALL AND FOUNDATION TRANSITION
SLAB BELOW GRADE WITH MASONRY LEDGE

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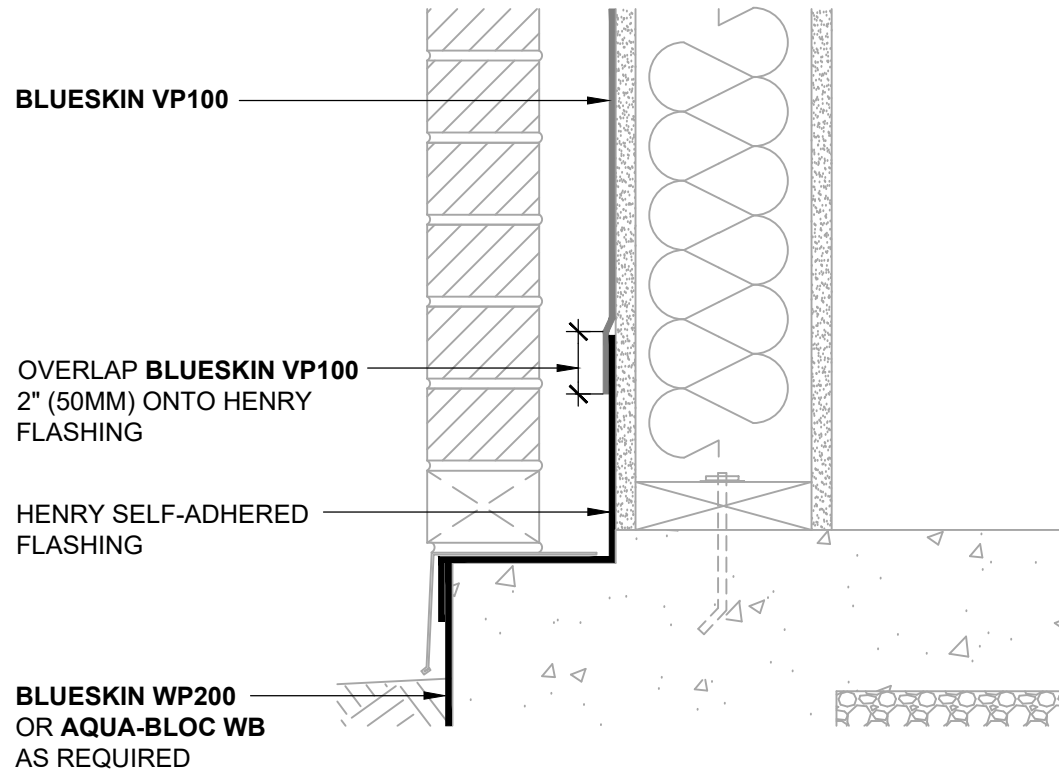
VPWRB-1A



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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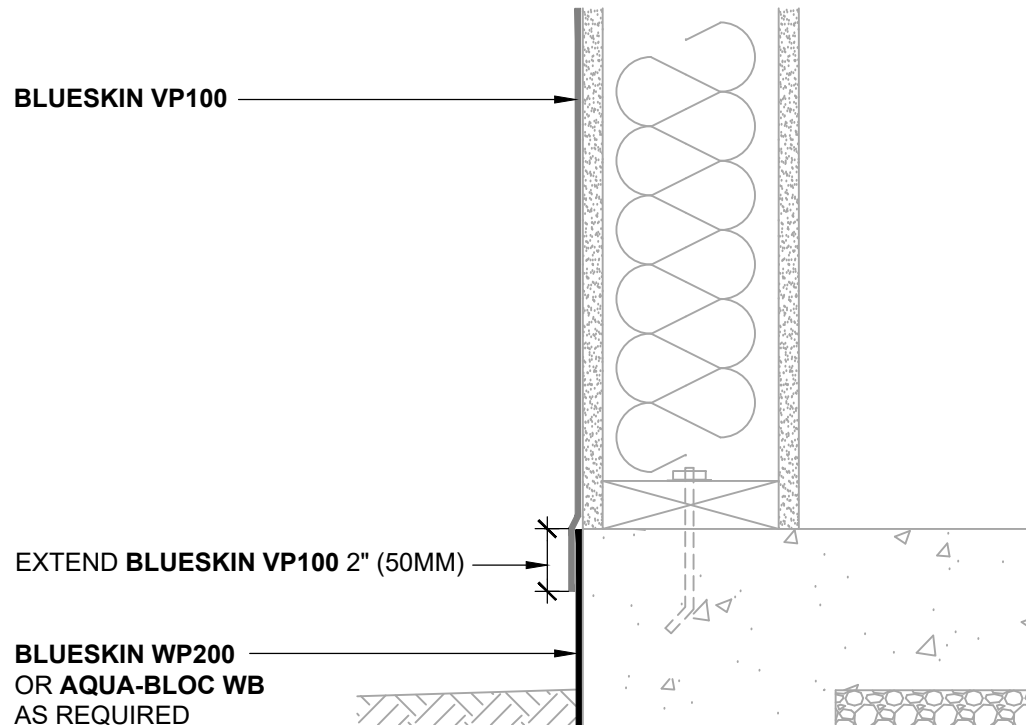
VPWRB-1B



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BLUESKIN VP100 SELF-ADHERED AIR BARRIER WALL FOUNDATION

EXTERIOR WALL AND FOUNDATION TRANSITION
SLAB ON GRADE - NO MASONRY LEDGE

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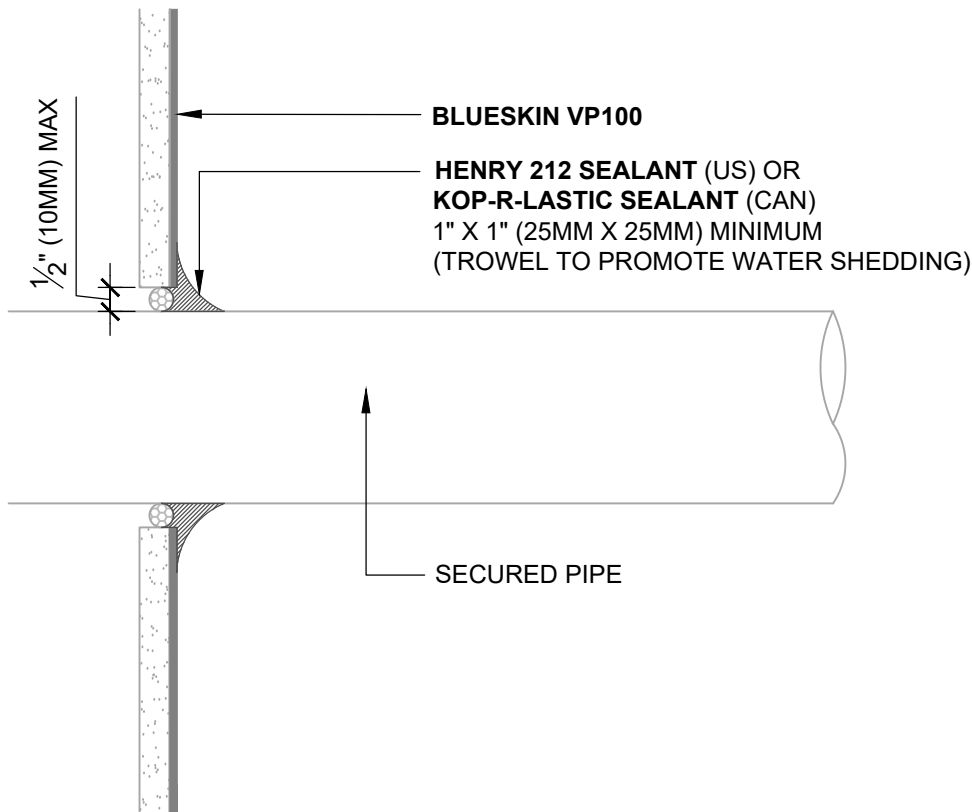
VPWRB-1C



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER PIPE PENETRATION

SUBSTRATE GAPS UP TO 1/2" (10MM) WIDE GAP MAXIMUM
HENRY 212 SEALANT OR KOP-R-LASTIC SEALANT

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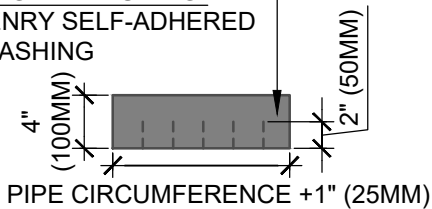
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VPWRB-2A

FINGER FLASHING:

HENRY SELF-ADHERED FLASHING



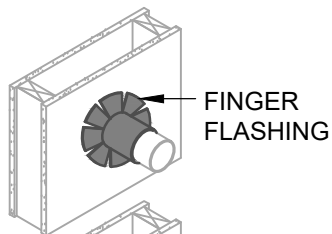
TARGET FLASHING:

HENRY SELF-ADHERED FLASHING

PIPE DIAMETER

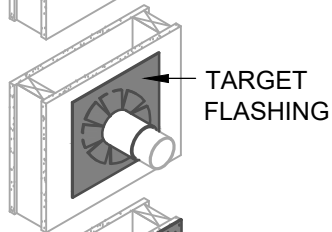
4" (100MM) ALL SIDES

1



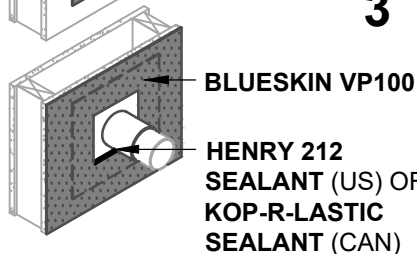
FINGER FLASHING

2



TARGET FLASHING

3



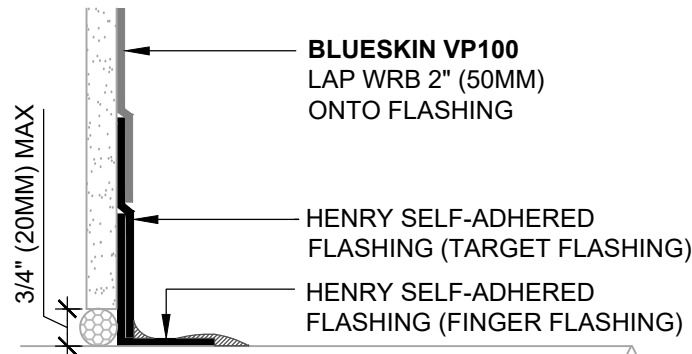
BLUESKIN VP100

HENRY 212 SEALANT (US) OR
KOP-R-LASTIC SEALANT (CAN)

4

PIPE FLASHING

ISOMETRIC VIEW



BLUESKIN VP100
LAP WRB 2" (50MM)
ONTO FLASHING

HENRY SELF-ADHERED
FLASHING (TARGET FLASHING)

HENRY SELF-ADHERED
FLASHING (FINGER FLASHING)

SECURED PIPE

MOISTOP SEALANT
OR AIR-BLOC LF

HENRY 212 SEALANT (US) OR
KOP-R-LASTIC SEALANT (CAN)
FULLY COAT REVERSE LAP
AND TROWEL TO PROMOTE
WATER SHEDDING

PIPE FLASHING

SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER PIPE PENETRATION

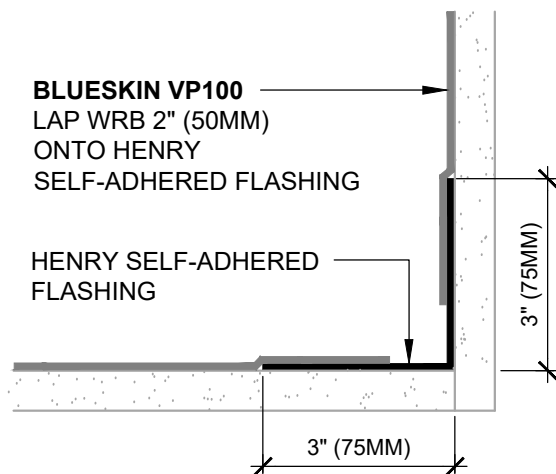
SUBSTRATE GAPS UP TO 3/4" (20MM) WIDE GAP MAXIMUM
SELF-ADHERED FLASHING

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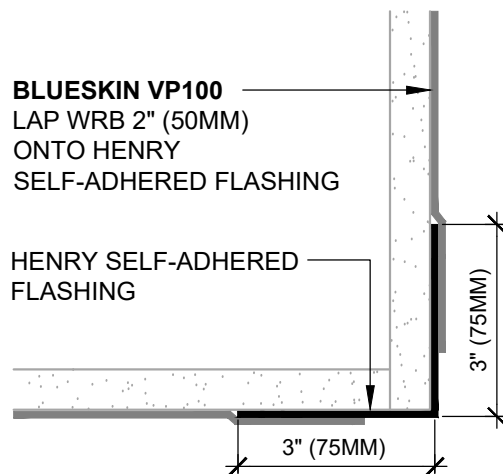
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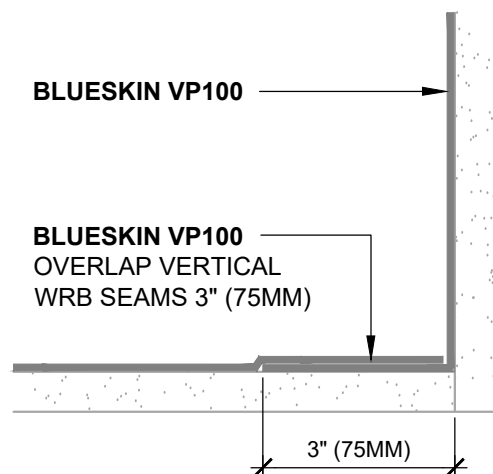
VPWRB-2B



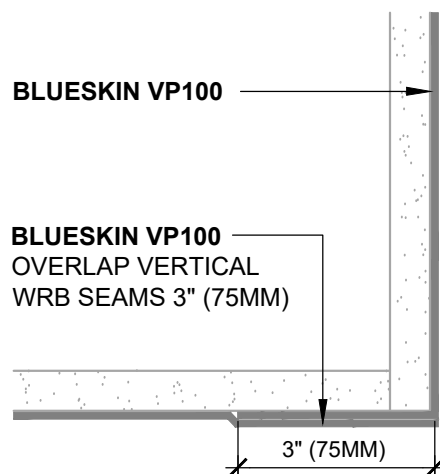
INSIDE CORNER (PLAN VIEW)
FLASHING INSTALLED BEFORE WRB



OUTSIDE CORNER (PLAN VIEW)
FLASHING INSTALLED BEFORE WRB



INSIDE CORNER (PLAN VIEW)
WRB WRAPPED AROUND CORNER



OUTSIDE CORNER (PLAN VIEW)
WRB WRAPPED AROUND CORNER



**HENRY 1-2-3 MOISTURE CONTROL SYSTEM
WEATHER-RESISTIVE BARRIER (WRB)
INSTALLATION GUIDELINES**

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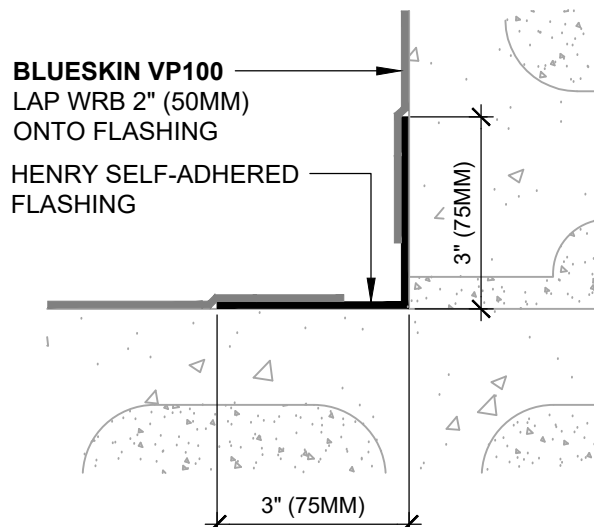
BLUESKIN VP100 SELF-ADHERED AIR BARRIER
INSIDE AND OUTSIDE CORNERS
TYPICAL CORNER DETAILS - PLAN VIEW
SHEATHING JOINTS

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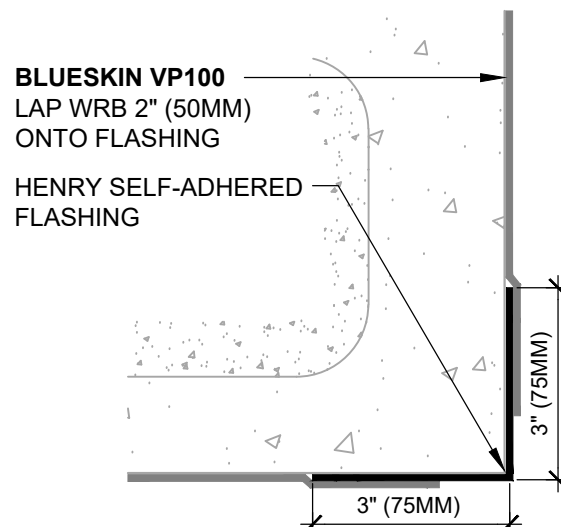
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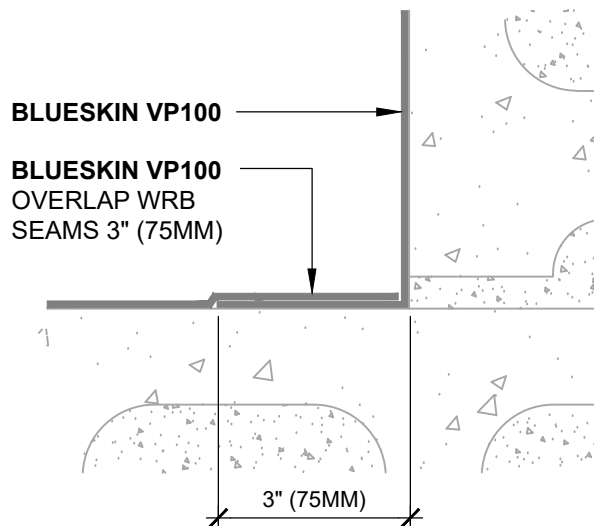
VPWRB-3A



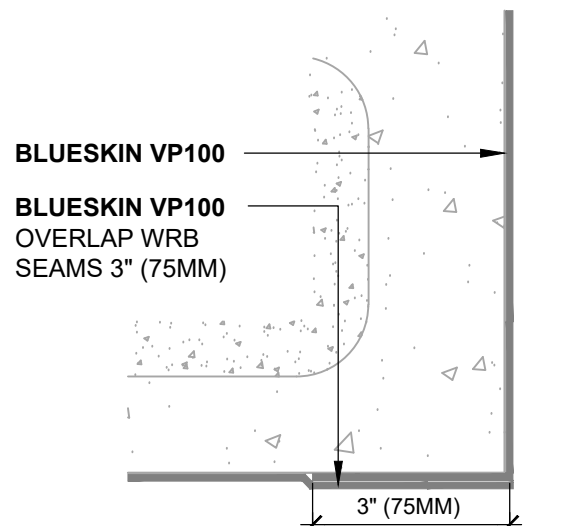
INSIDE CORNER (PLAN VIEW)
FLASHING INSTALLED BEFORE WRB



OUTSIDE CORNER (PLAN VIEW)
FLASHING INSTALLED BEFORE WRB



INSIDE CORNER (PLAN VIEW)
WRB WRAPPED AROUND CORNER



OUTSIDE CORNER (PLAN VIEW)
WRB WRAPPED AROUND CORNER



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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4. STRIKE CMU JOINTS FULL AND FLUSH TO CREATE A CONTINUOUS SUBSTRATE. PARTIAL OR SOLID GROUT CMU PRIOR TO WRB INSTALLATION AS SPECIFIED. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR CURE TIME PRIOR TO WRB INSTALLATION.
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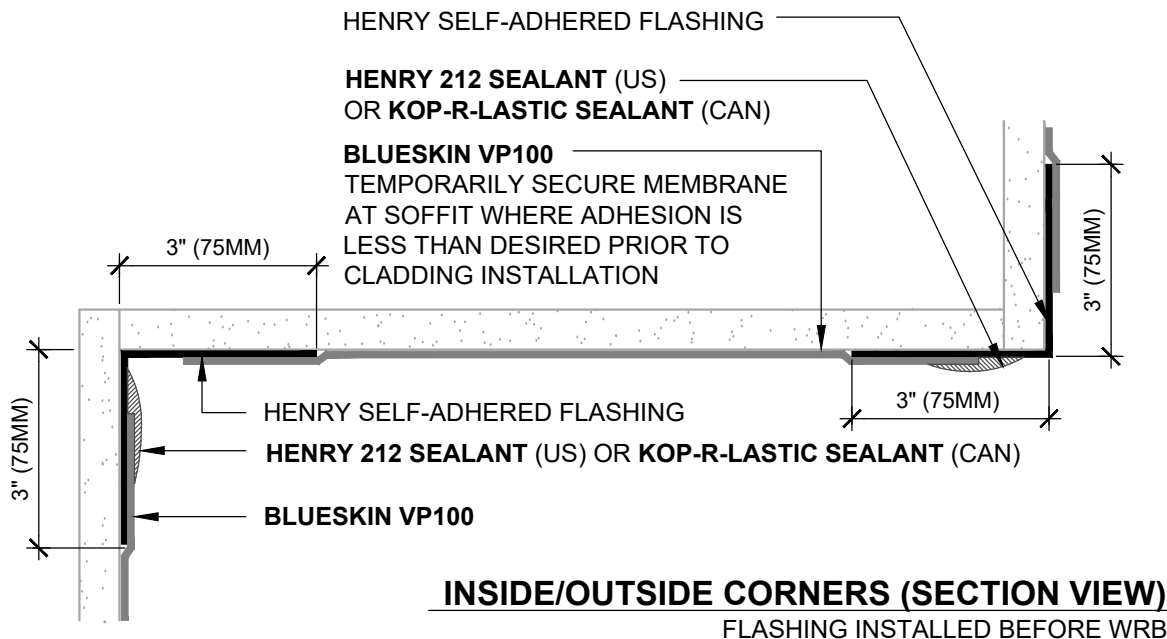
BLUESKIN VP100 SELF-ADHERED AIR BARRIER INSIDE AND OUTSIDE CORNERS CONCRETE MASONRY UNITS (CMU) STRIKE MASONRY JOINTS FLUSH

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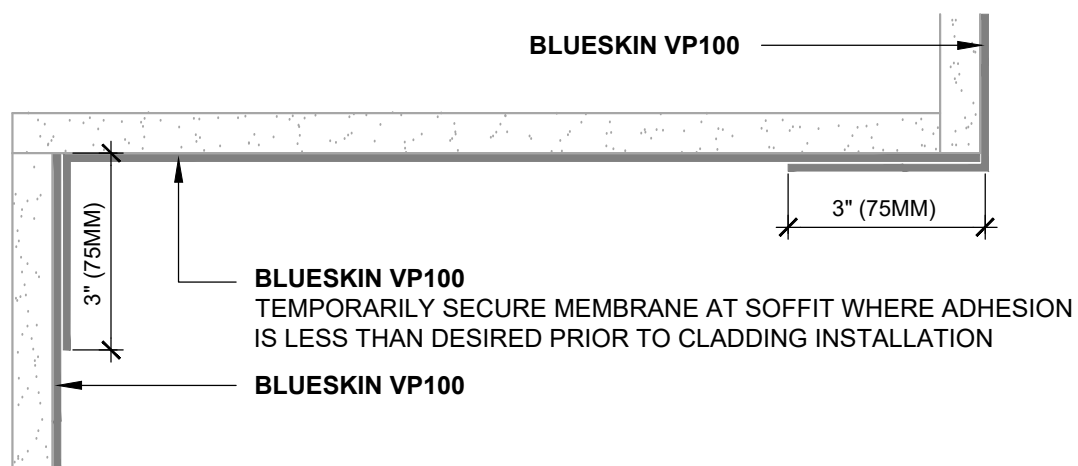
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VPWRB-3B



INSIDE/OUTSIDE CORNERS (SECTION VIEW)

FLASHING INSTALLED BEFORE WRB



INSIDE/OUTSIDE CORNERS (SECTION VIEW)

WRB WRAPPED AROUND CORNER



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER TYPICAL SOFFIT

INSIDE AND OUTSIDE CORNERS - SECTION VIEW SELF-ADHERED FLASHING

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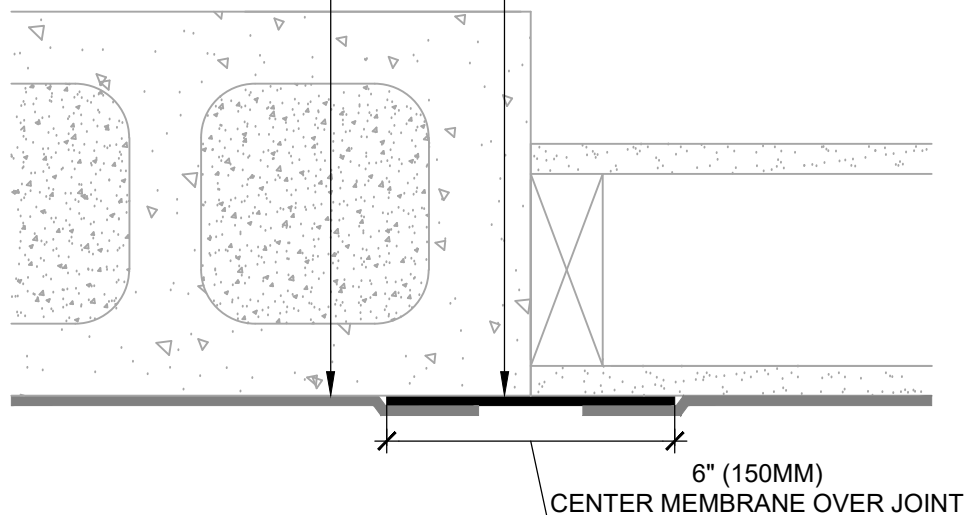
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VPWRB-3C

HENRY SELF-ADHERED FLASHING
OR **BLUESKIN VP100**

BLUESKIN VP100
LAP WRB 2" (50MM) ONTO FLASHING



NON-MOVING JOINT (PLAN VIEW)
CONTROL JOINT/SUBSTRATE TRANSITION



**HENRY 1-2-3 MOISTURE CONTROL SYSTEM
WEATHER-RESISTIVE BARRIER (WRB)
INSTALLATION GUIDELINES**

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3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. STRIKE CMU JOINTS FULL AND FLUSH TO CREATE A CONTINUOUS SUBSTRATE. PARTIAL OR SOLID GROUT CMU PRIOR TO WRB INSTALLATION AS SPECIFIED. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR CURE TIME PRIOR TO WRB INSTALLATION.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
9. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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**BLUESKIN VP100 SELF-ADHERED AIR BARRIER
SUBSTRATE TRANSITION**

**DISSIMILAR SUBSTRATE TRANSITIONS
SUBSTRATE GAPS UP TO 1/2" (10MM) MAXIMUM**

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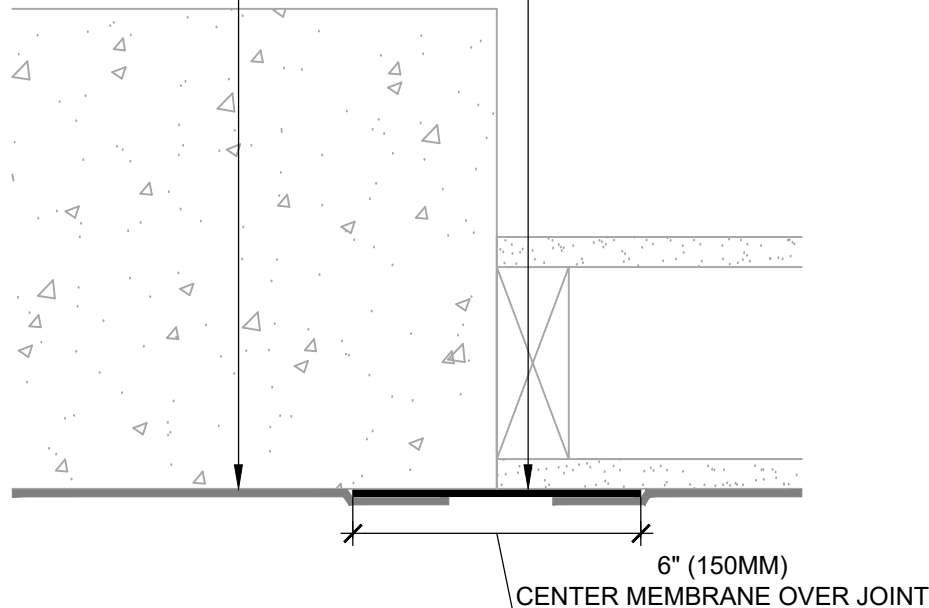
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VPWRB-4A

HENRY SELF-ADHERED FLASHING
OR **BLUESKIN VP100**

BLUESKIN VP100
LAP WRB 2" (50MM)
ONTO FLASHING



NON-MOVING JOINT (PLAN VIEW)
CONTROL JOINT/SUBSTRATE TRANSITION



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
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3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER SUBSTRATE TRANSITION

DISSIMILAR SUBSTRATE TRANSITIONS
SUBSTRATE GAPS UP TO 1/2" (10MM) MAXIMUM

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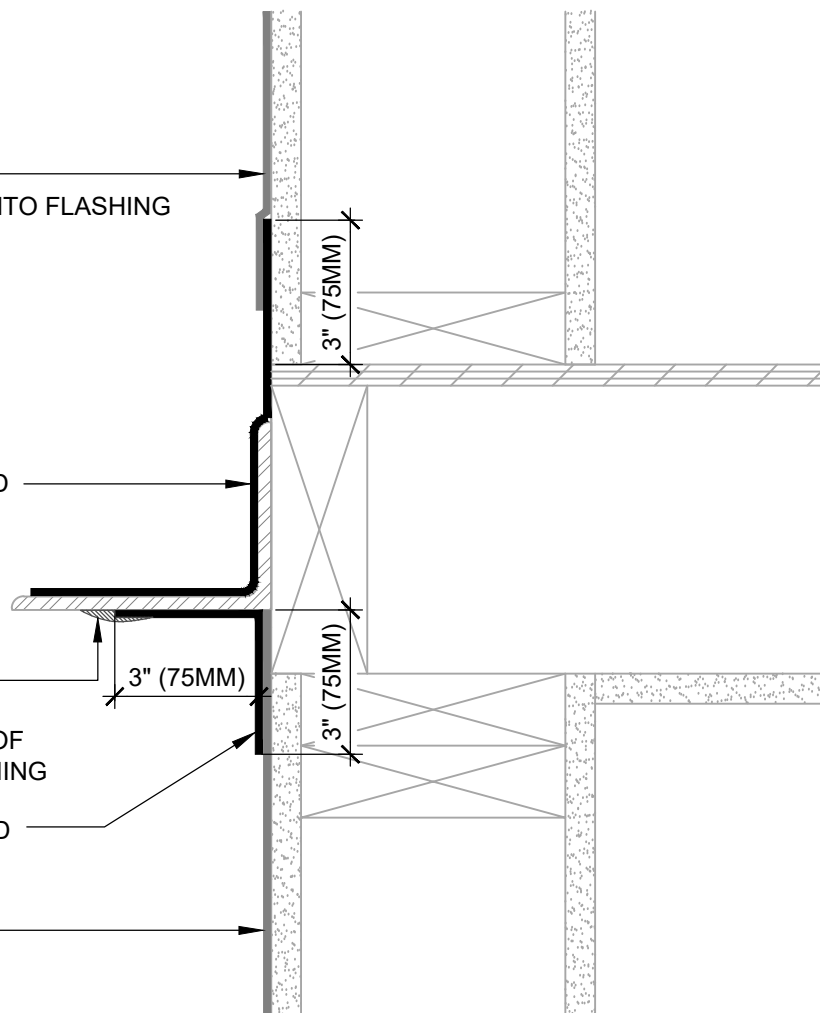
BLUESKIN VP100
LAP WRB 2" (50MM) ONTO FLASHING

HENRY SELF-ADHERED
FLASHING

MOISTOP SEALANT
OR **AIR-BLOC LF**
ENCAPSULATE EDGE OF
SELF-ADHERED FLASHING

HENRY SELF-ADHERED
FLASHING

BLUESKIN VP100



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER SUBSTRATE TRANSITION

DISSIMILAR SUBSTRATE TRANSITIONS
CONTINUOUS LINTEL/STEEL ANGLE

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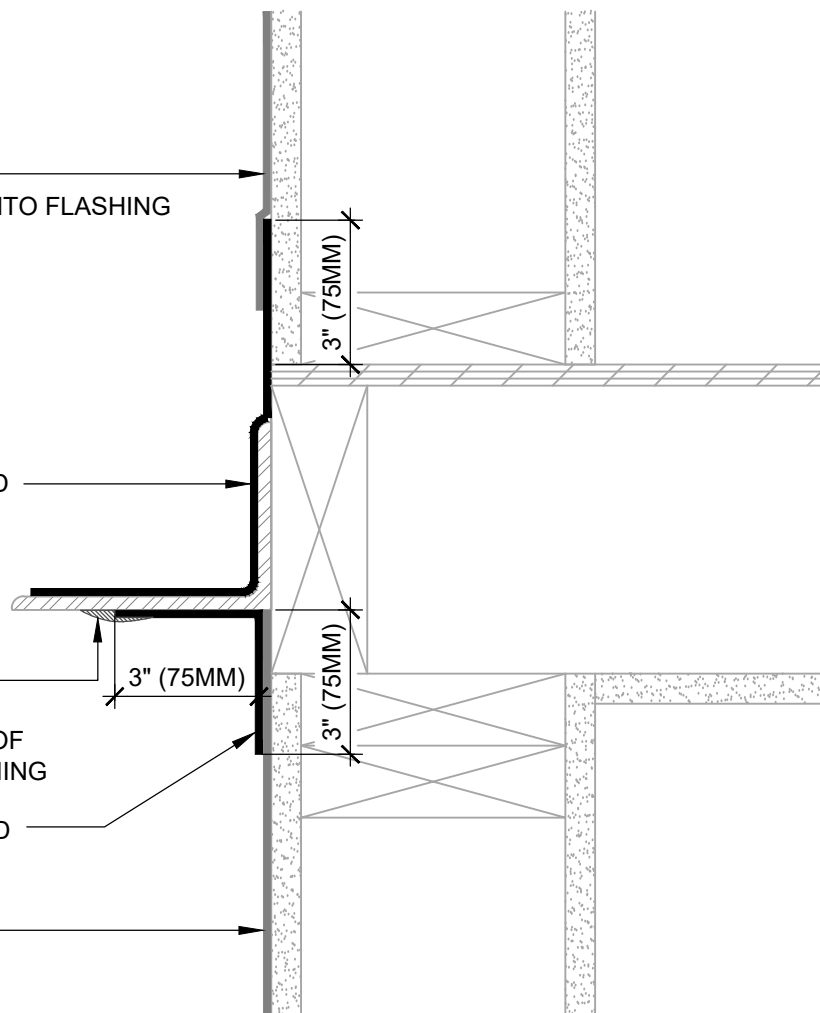
BLUESKIN VP100
LAP WRB 2" (50MM) ONTO FLASHING

HENRY SELF-ADHERED
FLASHING

MOISTOP SEALANT
OR **AIR-BLOC LF**
ENCAPSULATE EDGE OF
SELF-ADHERED FLASHING

HENRY SELF-ADHERED
FLASHING

BLUESKIN VP100



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER SUBSTRATE TRANSITION

DISSIMILAR SUBSTRATE TRANSITIONS
CONTINUOUS LINTEL/STEEL ANGLE

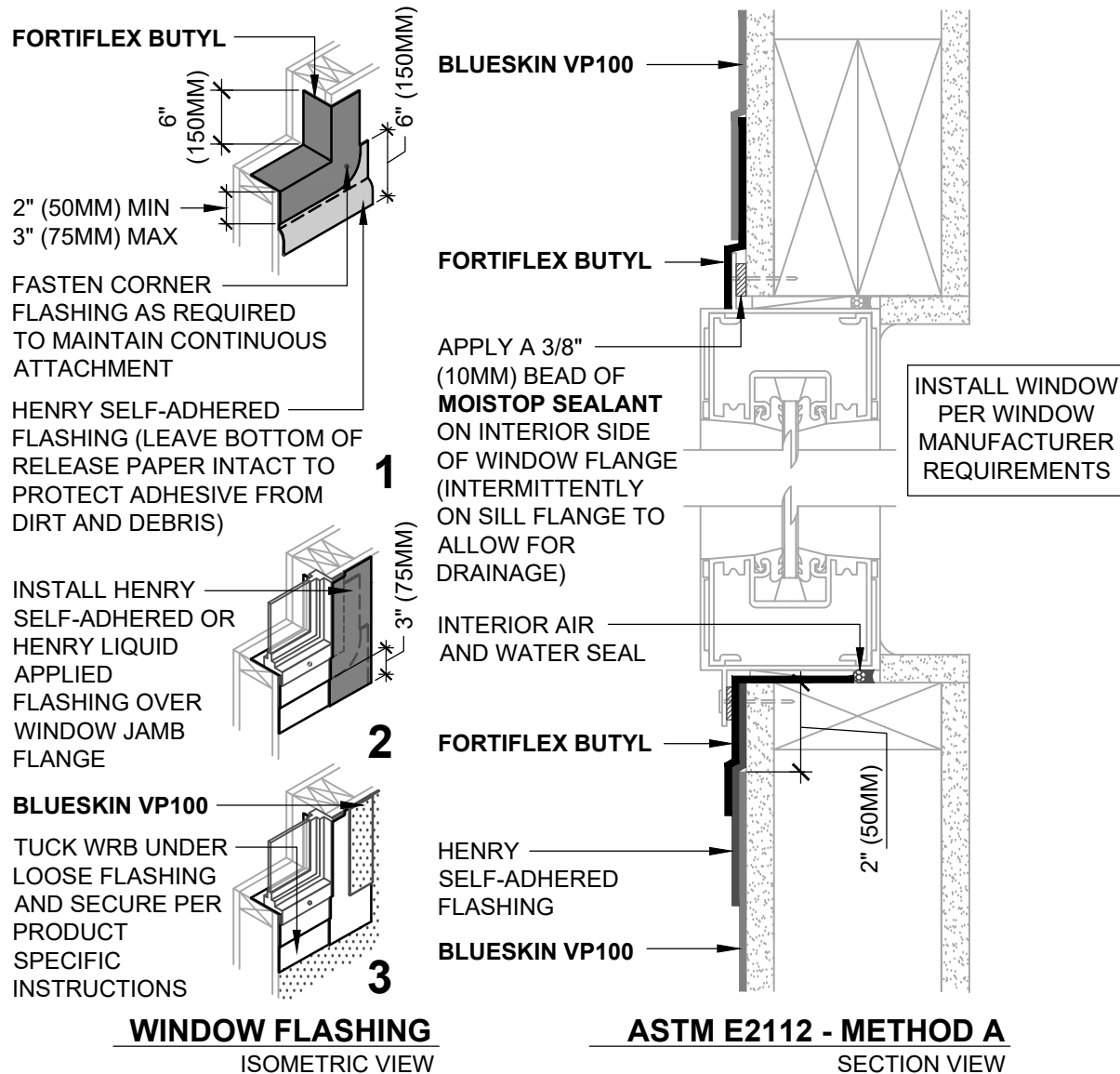
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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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3. INSTALLATION "METHOD A" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD A

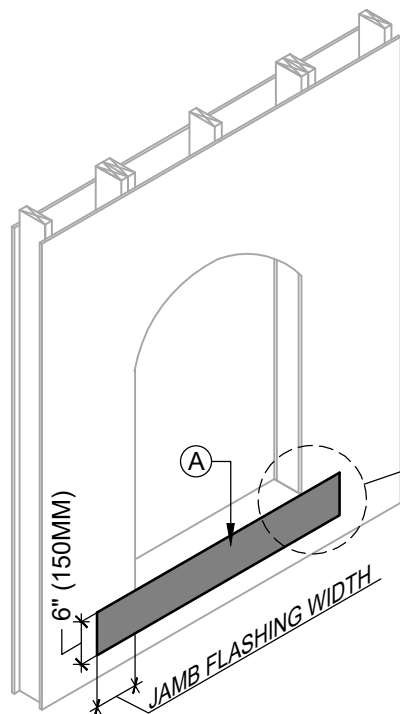
FORTIFLEX BUTYL
FLASHING INSTALLED BEFORE WRB

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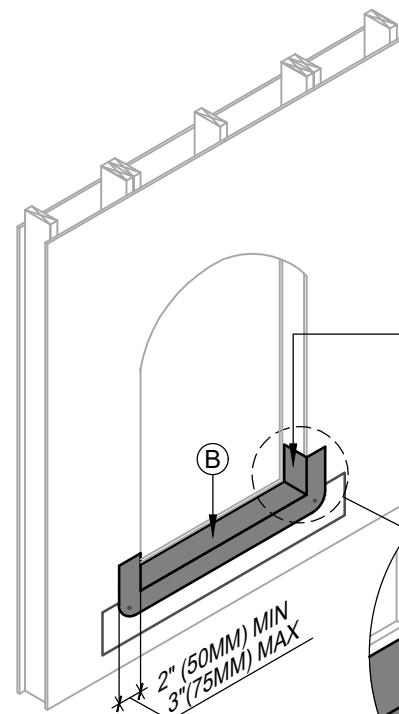
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1 SILL FLASHING PREPARATION

- SELF-ADHERED FLASHING:**
1. REMOVE RELEASE PAPER AT TOP OF FLASHING AND ADHERE TOP OF FLASHING INTO PLACE
 2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
 3. INTEGRATE FLASHING WITH WRB IN STEP #7



2 SILL FLASHING INSTALLATION

FIRMLY ROLL FLASHING ONTO SURFACE

6" (150MM) MIN

2" (50MM) MIN, 3" (75MM) MAX

FASTEN CORNER FLASHING AS NEEDED

Henry RESIDENTIAL AND LIGHT COMMERCIAL WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
- (B) FORTIFLEX BUTYL
- (C) HENRY MOISTOP SEALANT
- (D) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (E) BLUESKIN VP100

NOTES

1. THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.
2. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
3. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.

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**BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
FORTIFLEX BUTYL
FLASHING INSTALLED BEFORE WRB - SEQUENCE INSTALLATION**

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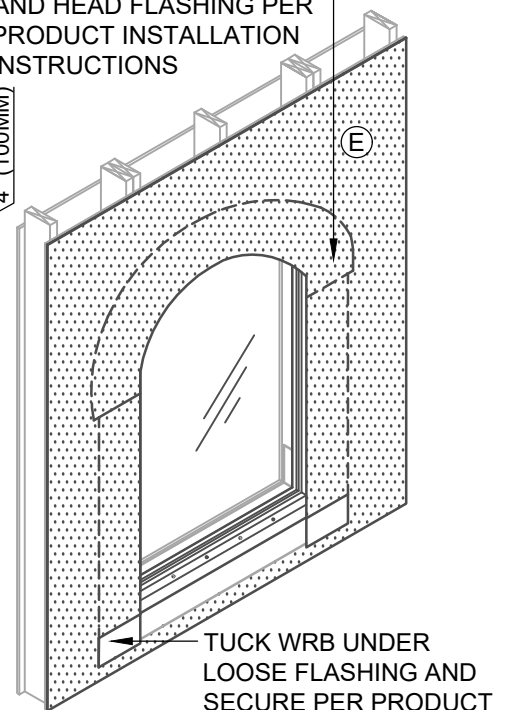
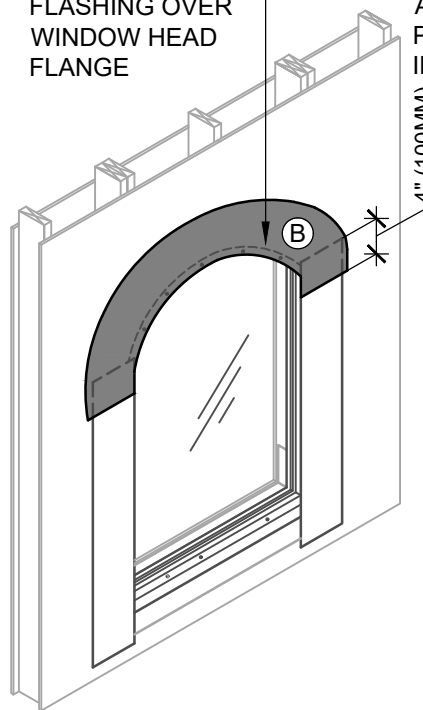
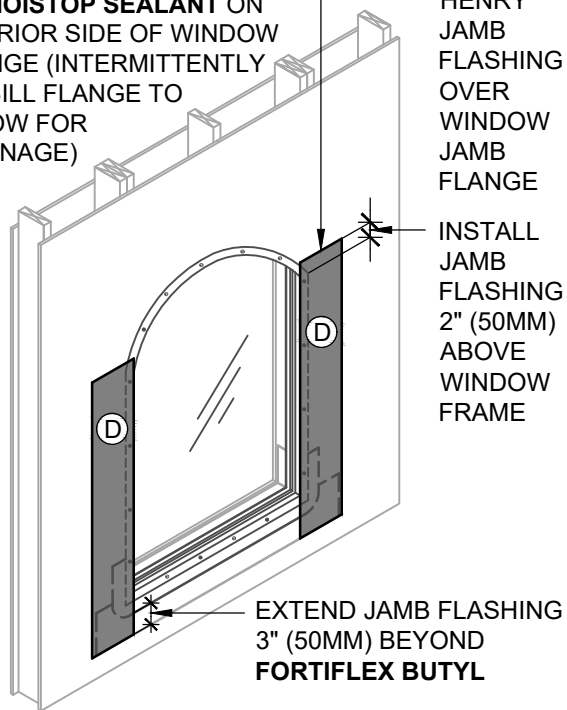
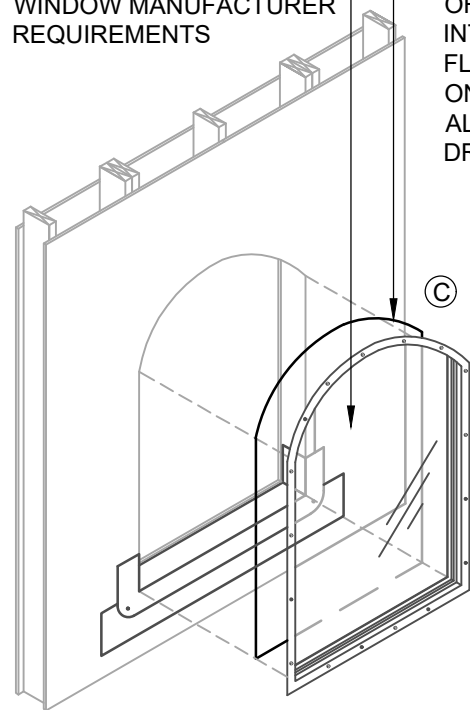
INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

APPLY A 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE (INTERMITTENTLY ON SILL FLANGE TO ALLOW FOR DRAINAGE)

INSTALL HENRY JAMB FLASHING OVER WINDOW JAMB FLANGE

INSTALL HENRY FLASHING OVER WINDOW HEAD FLANGE

INSTALL WRB OVER JAMB AND HEAD FLASHING PER PRODUCT INSTALLATION INSTRUCTIONS



4 WINDOW INSTALLATION

5 JAMB FLASHING INSTALLATION

6 HEADER FLASHING INSTALLATION

7 WEATHER-RESISTIVE BARRIER (WRB)

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD A" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. AS A BEST PRACTICE, SLOPE SILL PRIOR TO FLASHING INSTALLATION TO PROMOTE POSITIVE DRAINAGE. USE BACKDAM IN LIEU OF SHIM AS REQUIRED.
3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
5. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANTS AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
6. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
9. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
10. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
11. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
FORTIFLEX BUTYL
FLASHING INSTALLED BEFORE WRB - SEQUENCE INSTALLATION

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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.

EXTEND SILL FLASHING TO MATCH JAMB FLASHING WIDTH

HENRY SELF-ADHERED FLASHING (LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS)

1

HENRY SELF-ADHERED FLASHING

SET WINDOW FLANGE INTO A BED OF **MOISTOP SEALANT**

2

BLUESKIN VP100

TUCK WRB UNDER LOOSE FLASHING AND SECURE PER PRODUCT SPECIFIC INSTRUCTIONS

3

WINDOW FLASHING
ISOMETRIC VIEW

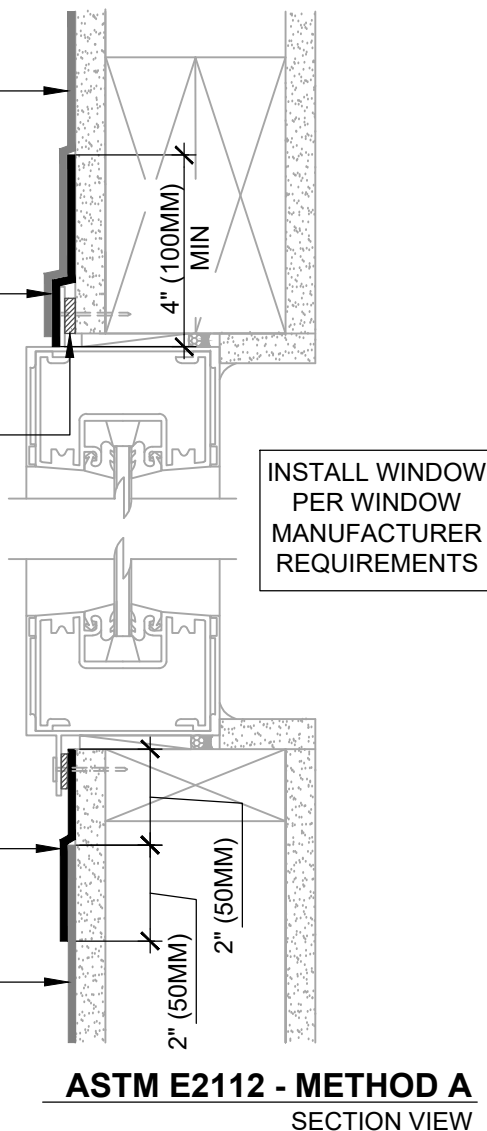
BLUESKIN VP100

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

APPLY A CONTINUOUS 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE

HENRY SELF-ADHERED FLASHING

BLUESKIN VP100



INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

ASTM E2112 - METHOD A
SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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3. INSTALLATION "METHOD A" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
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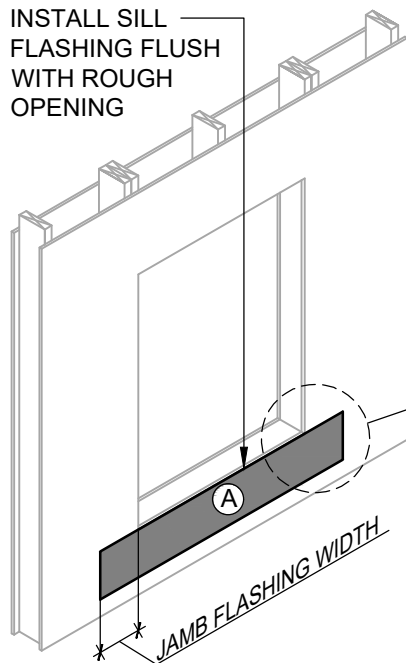
BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB

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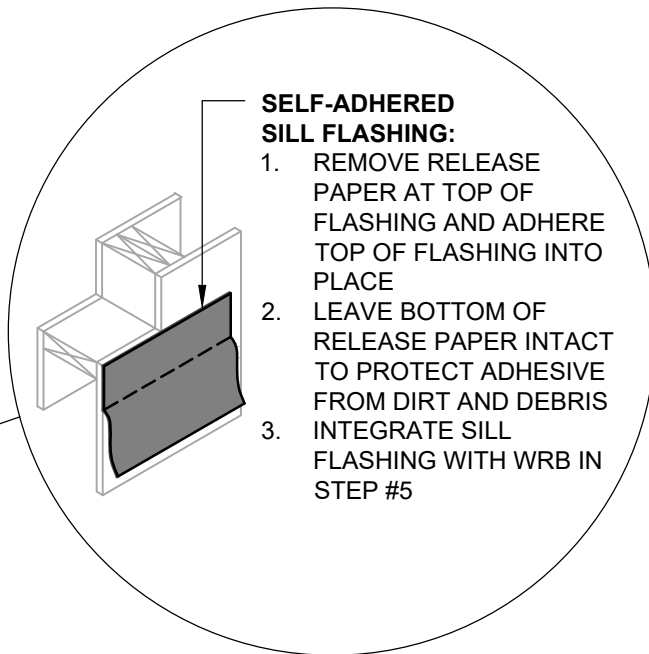
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1 SILL FLASHING INSTALLATION



2 WINDOW INSTALLATION

SELF-ADHERED SILL FLASHING:

1. REMOVE RELEASE PAPER AT TOP OF FLASHING AND ADHERE TOP OF FLASHING INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS INTEGRATE SILL FLASHING WITH WRB IN STEP #5
- 3.

APPLY A CONTINUOUS 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE

INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM
WEATHER-RESISTIVE BARRIER (WRB)
INSTALLATION GUIDELINES

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
- (B) HENRY MOISTOP SEALANT
- (C) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (D) BLUESKIN VP100

NOTES

1. THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.
2. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
3. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.



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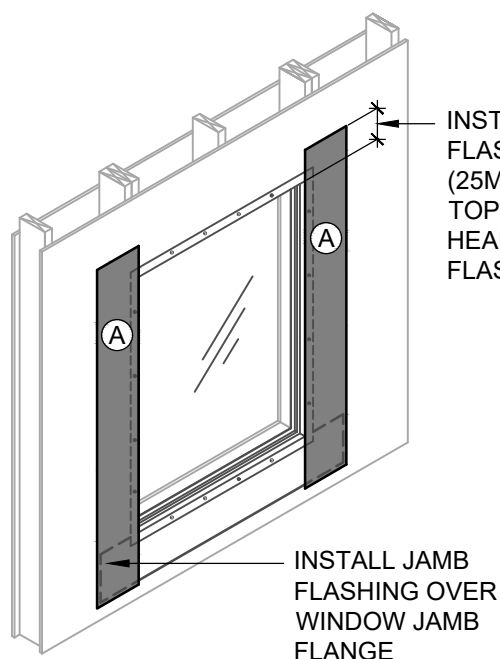
BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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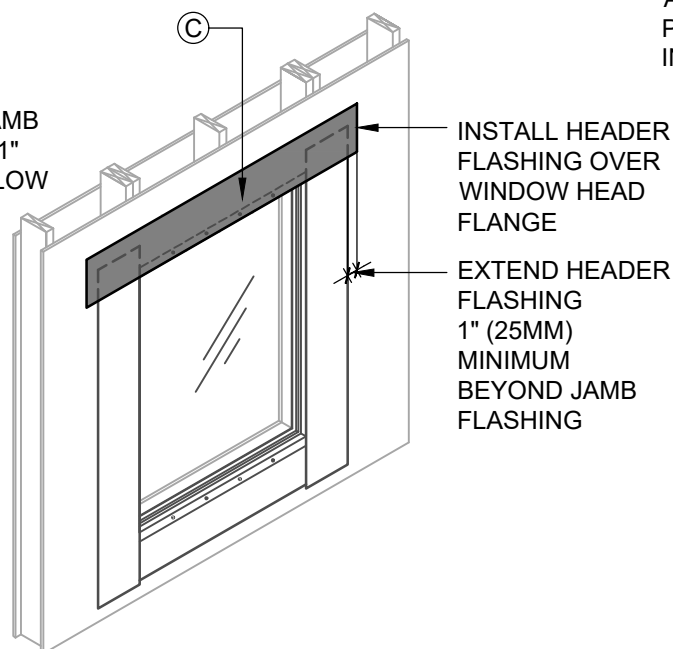
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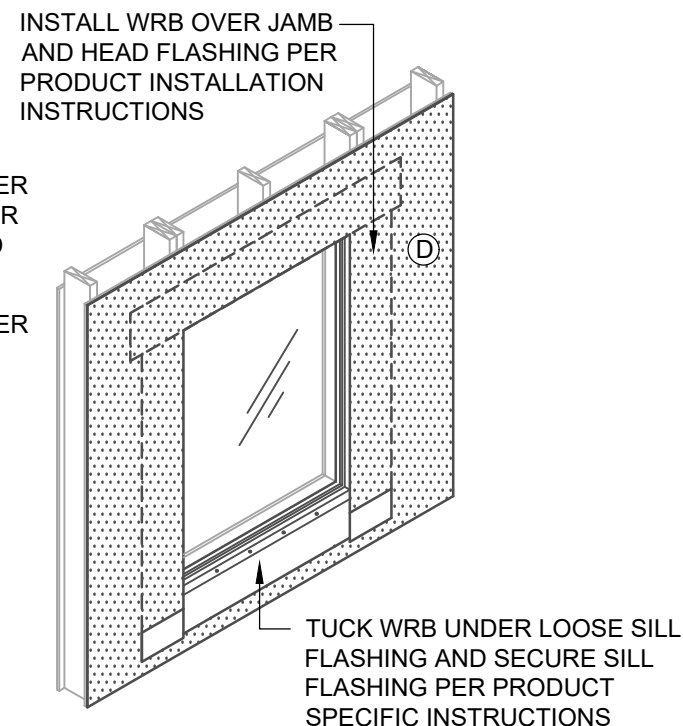
VPWRB-6A-L2



3 JAMB FLASHING INSTALLATION



4 HEADER FLASHING INSTALLATION



5 WEATHER-RESISTIVE BARRIER (WRB)

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD A" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANT AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. INSTALLATION "METHOD A" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

HENRY SELF-ADHERED FLASHING
6" (150MM)
2" (50MM)
HENRY SELF-ADHERED BOW TIE FLASHING
HENRY SELF-ADHERED FLASHING (LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS)

1

INSTALL HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING OVER WINDOW JAMB FLANGE

2

BLUESKIN VP100
TUCK WRB UNDER LOOSE FLASHING AND SECURE PER PRODUCT SPECIFIC INSTRUCTIONS

3

WINDOW FLASHING
ISOMETRIC VIEW

BLUESKIN VP100

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

APPLY A 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE (INTERMITTENTLY ON SILL FLANGE TO ALLOW FOR DRAINAGE)

INTERIOR AIR AND WATER SEAL

HENRY SELF-ADHERED FLASHING

HENRY SELF-ADHERED FLASHING

BLUESKIN VP100

ASTM E2112 - METHOD A
SECTION VIEW

INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

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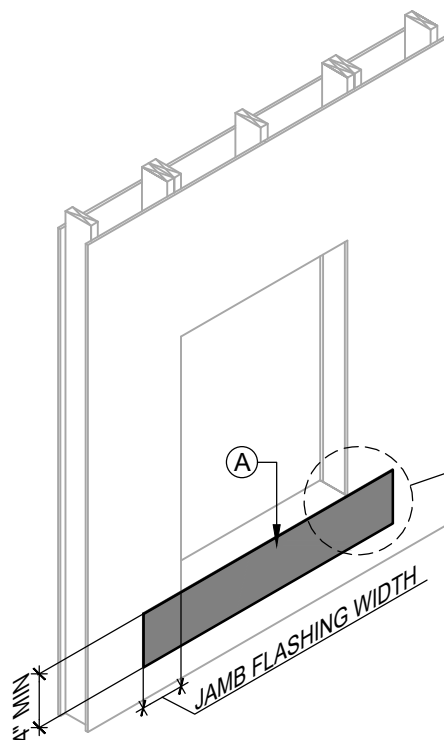
**BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
WINDOW INSTALLATION WITH PAN FLASHING AT SILL
FLASHING INSTALLED BEFORE WRB**

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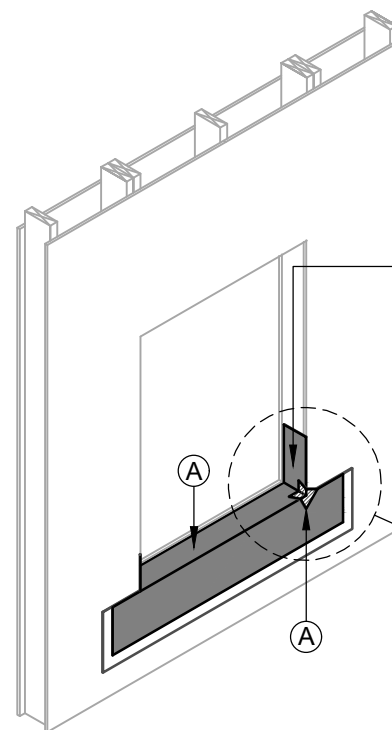
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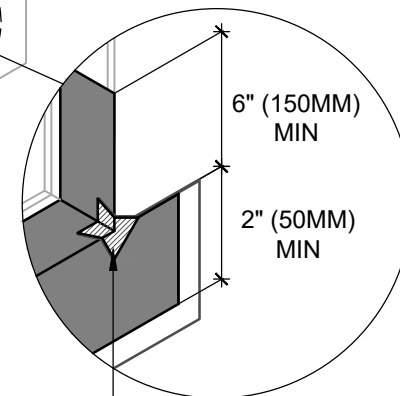
1 SILL FLASHING PREPARATION

- SELF-ADHERED FLASHING:**
1. REMOVE RELEASE PAPER AT TOP OF FLASHING AND ADHERE TOP OF FLASHING INTO PLACE
 2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
 3. INTEGRATE FLASHING WITH WRB IN STEP #7



2 SILL FLASHING INSTALLATION

SELF-ADHERED FLASHING:
FIRMLY ROLL FLASHING ONTO SURFACE



SELF-ADHERED BOW TIE FLASHING



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM
WEATHER-RESISTIVE BARRIER (WRB)
INSTALLATION GUIDELINES

NOTES

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3. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
- (B) HENRY MOISTOP SEALANT
- (C) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (D) BLUESKIN VP100



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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A
WINDOW INSTALLATION WITH PAN FLASHING AT SILL
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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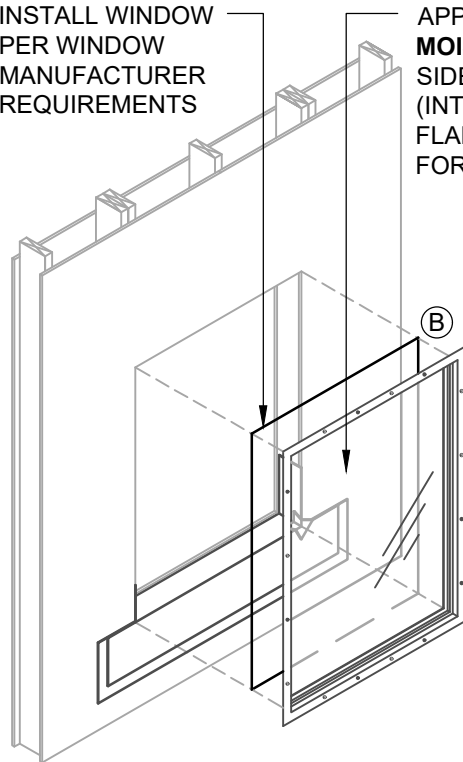
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INSTALL WINDOW
PER WINDOW
MANUFACTURER
REQUIREMENTS

APPLY A 3/8" (10MM) BEAD OF
MOISTOP SEALANT ON INTERIOR
SIDE OF WINDOW FLANGE
(INTERMITTENTLY ON SILL
FLANGE TO ALLOW
FOR DRAINAGE)



4 WINDOW INSTALLATION

INSTALL
JAMB
FLASHING
1" (25MM)
BELOW
TOP OF
HEAD
FLASHING

INSTALL HENRY
JAMB FLASHING
OVER WINDOW
JAMB FLANGE

5 JAMB FLASHING INSTALLATION

EXTEND HEADER
FLASHING 1" (25MM)
BEYOND JAMB
FLASHING

6 HEADER FLASHING INSTALLATION

INSTALL HENRY
FLASHING OVER
WINDOW HEAD
FLANGE

INSTALL WRB OVER JAMB
AND HEAD FLASHING PER
PRODUCT INSTALLATION
INSTRUCTIONS

7 WEATHER-RESISTIVE BARRIER (WRB)

TUCK WRB UNDER
LOOSE FLASHING
AND SECURE PER
PRODUCT SPECIFIC
INSTRUCTIONS

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD A" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. AS A BEST PRACTICE, SLOPE SILL PRIOR TO FLASHING INSTALLATION TO PROMOTE POSITIVE DRAINAGE. USE BACKDAM IN LIEU OF SHIM AS REQUIRED.
3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
5. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANT AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
6. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
9. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
10. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
11. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD A WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

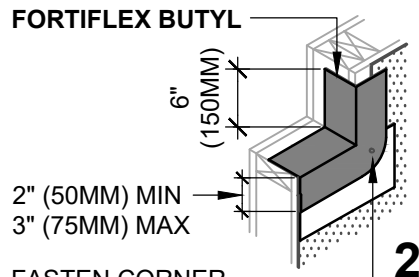
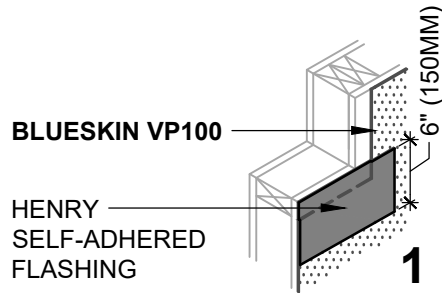
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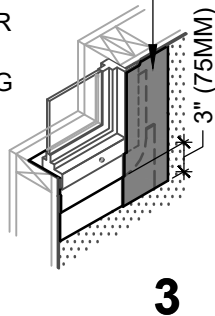
VPWRB-6A-P2

THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY
ACCEPTED METHODS OF WINDOW INSTALLATION.



FASTEN CORNER
FLASHING AS REQUIRED
TO MAINTAIN CONTINUOUS
ATTACHMENT

INSTALL HENRY
SELF-ADHERED OR
HENRY LIQUID
APPLIED FLASHING
OVER WINDOW
JAMB FLANGE



WINDOW FLASHING
ISOMETRIC VIEW

BLUESKIN VP100

FORTIFLEX BUTYL

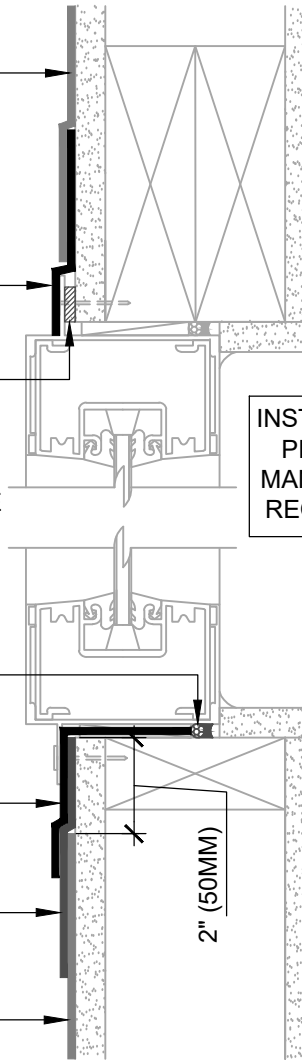
APPLY A 3/8"
(10MM) BEAD OF
MOISTOP SEALANT
ON INTERIOR SIDE
OF WINDOW FLANGE
(INTERMITTENTLY
ON SILL FLANGE TO
ALLOW FOR
DRAINAGE)

INTERIOR AIR
AND WATER SEAL

FORTIFLEX BUTYL

**HENRY
SELF-ADHERED
FLASHING**

BLUESKIN VP100



ASTM E2112 - METHOD A1
SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A1
FORTIFLEX BUTYL
FLASHING INSTALLED AFTER WRB

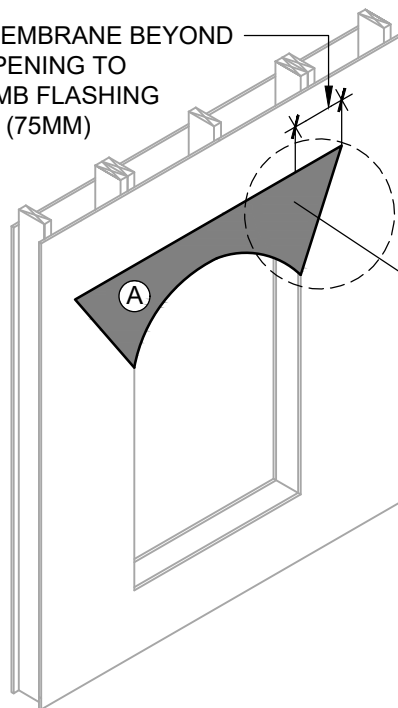
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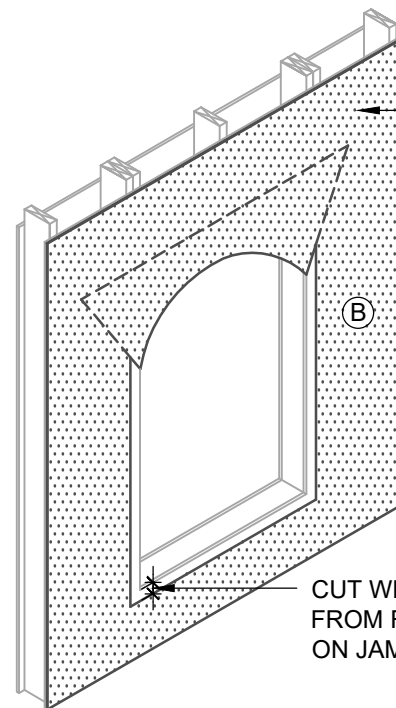
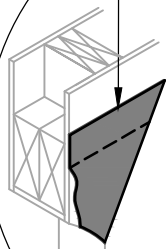
EXTEND MEMBRANE BEYOND
ROUGH OPENING TO
EQUAL JAMB FLASHING
WIDTH +3" (75MM)



1 HEADER PREPARATION

SELF-ADHERED MEMBRANE:

1. REMOVE RELEASE PAPER AT TOP OF MEMBRANE AND ADHERE INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE MEMBRANE WITH WRB IN STEP #8



INSTALL WRB PER
PRODUCT INSTALLATION
INSTRUCTIONS

CUT WRB 2" (50MM)
FROM ROUGH OPENING
ON JAMB AND SILL

2 WEATHER-RESISTIVE BARRIER (WRB)



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING OR BLUESKIN VP100
- (B) BLUESKIN VP100
- (C) HENRY SELF-ADHERED FLASHING
- (D) FORTIFLEX BUTYL
- (E) HENRY MOISTOP SEALANT
- (F) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (G) HENRY 212 SEALANT (US) OR KOP-R-LASTIC SEALANT (CAN)



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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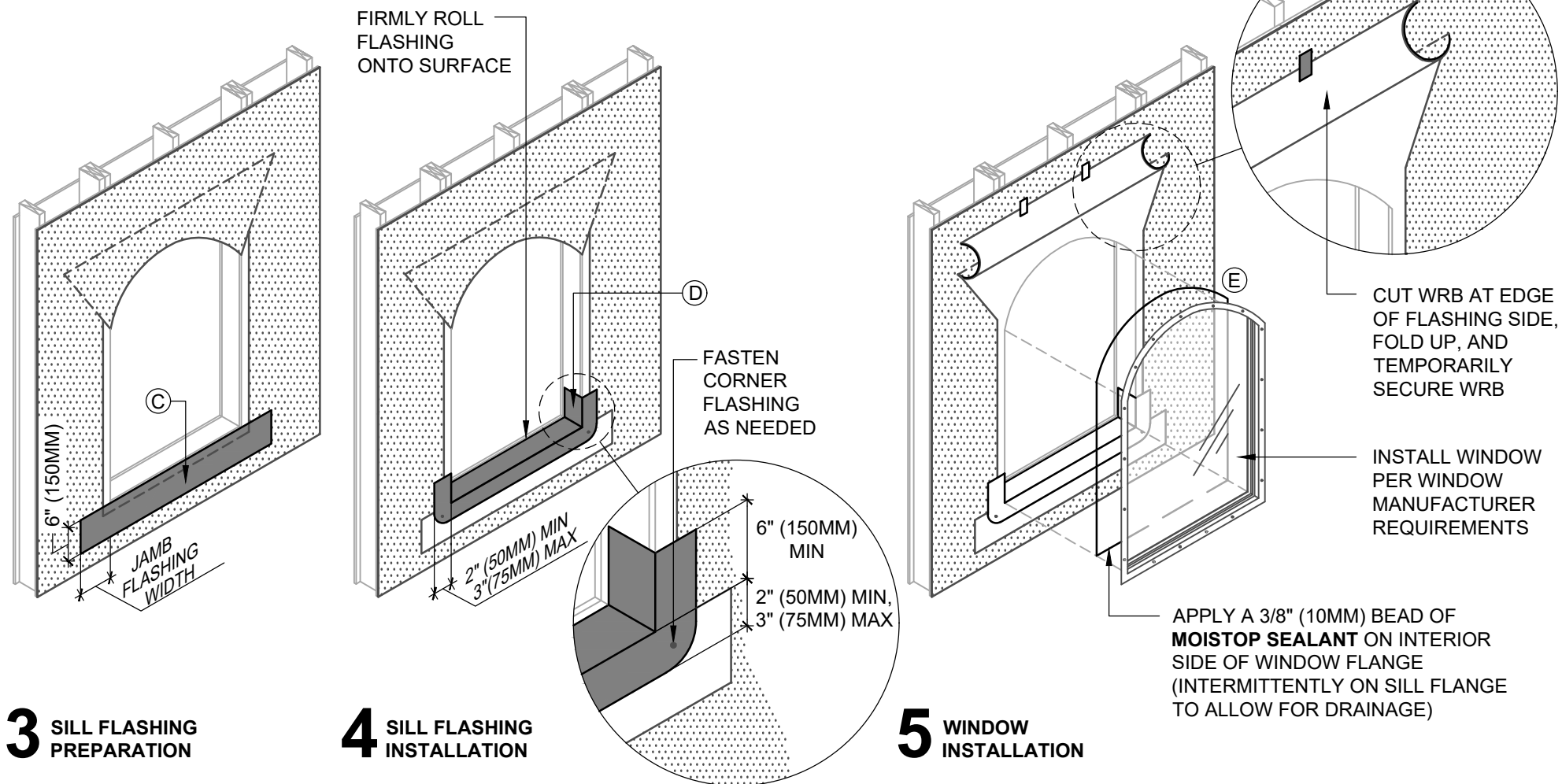
BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD A1 FORTIFLEX BUTYL FLASHING INSTALLED AFTER WRB - SEQUENCE INSTALLATION

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INSTALLATION GUIDELINES AND LIMITATIONS

1. THIS DETAIL SET INCLUDES THREE PAGES. REFER TO PAGE THREE FOR FURTHER **BLUESKIN VP100** INSTALLATION GUIDELINES AND LIMITATION NOTES.
2. INSTALLATION "METHOD A1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
3. AS A BEST PRACTICE, SLOPE SILL PRIOR TO FLASHING INSTALLATION TO PROMOTE POSITIVE DRAINAGE. USE BACKDAM IN LIEU OF SHIM AS REQUIRED.

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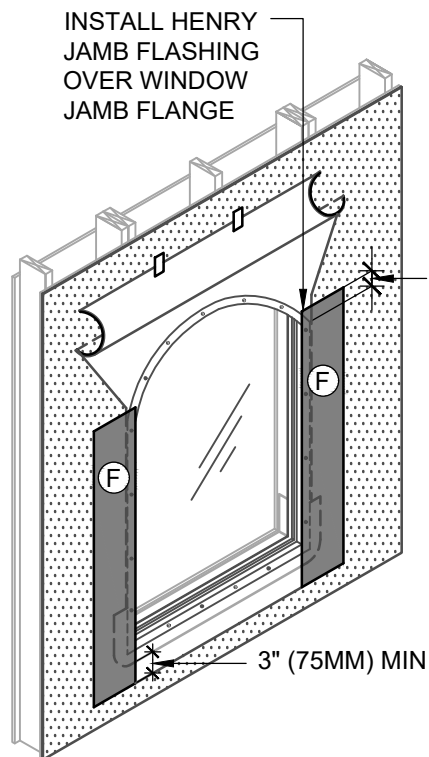
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FLANGED WINDOW - METHOD A1
FORTIFLEX BUTYL
FLASHING INSTALLED AFTER WRB - SEQUENCE INSTALLATION

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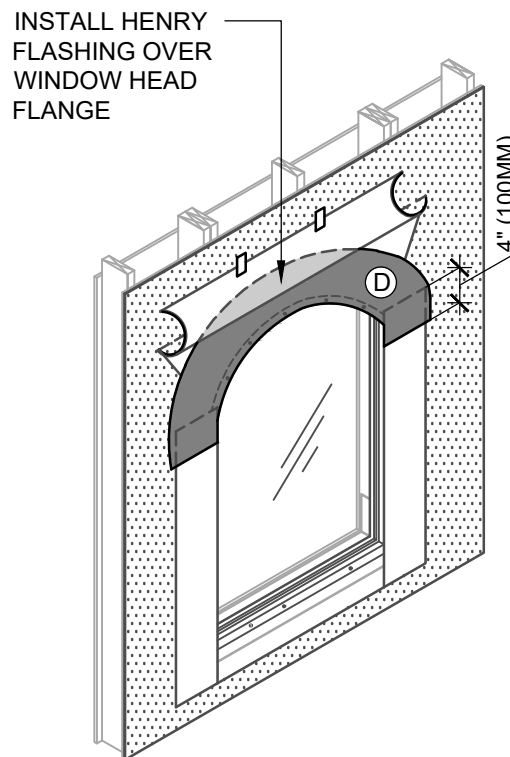
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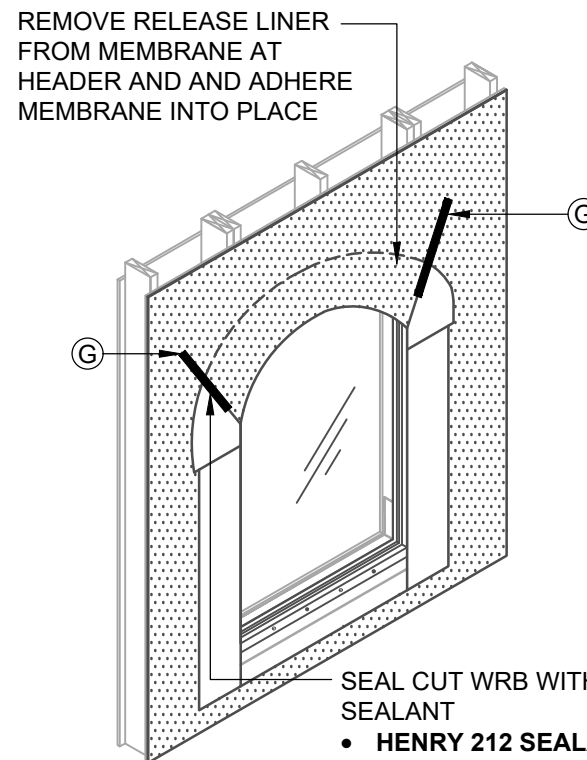
VPWRB-6A1-F2



6 JAMB FLASHING INSTALLATION



7 HEADER FLASHING INSTALLATION



8 SECURE WRB AT HEADER

INSTALLATION GUIDELINES AND LIMITATIONS

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5. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER

FLANGED WINDOW - METHOD A1

FORTIFLEX BUTYL

FLASHING INSTALLED AFTER WRB - SEQUENCE INSTALLATION

MANUFACTURER INSTALLATION GUIDELINES ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION. DETAILS ARE NOT TO SCALE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRODUCT INFORMATION, RECOMMENDED AUXILIARY COMPONENTS AND INSTALLATION INSTRUCTIONS.

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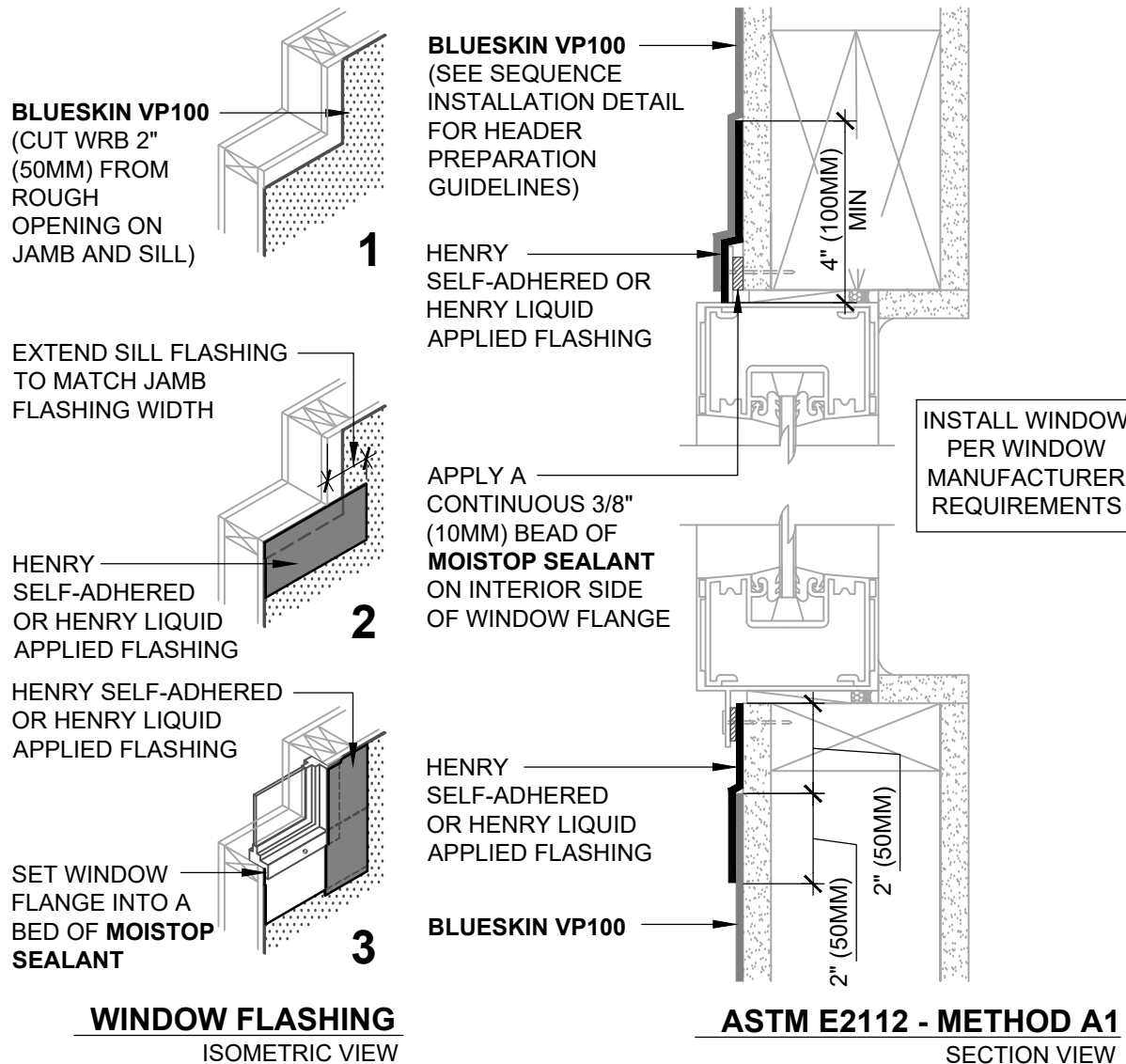
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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES



NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. INSTALLATION "METHOD A1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND INTERIOR OPTIONAL VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.



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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD A1 WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE FLASHING INSTALLED AFTER WRB

MANUFACTURER INSTALLATION GUIDELINES ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION. DETAILS ARE NOT TO SCALE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRODUCT INFORMATION, RECOMMENDED AUXILIARY COMPONENTS AND INSTALLATION INSTRUCTIONS.

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EXTEND MEMBRANE BEYOND ROUGH OPENING TO EQUAL JAMB FLASHING WIDTH +3" (75MM)

SELF-ADHERED MEMBRANE:

1. REMOVE RELEASE PAPER AT TOP OF MEMBRANE AND ADHERE INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE MEMBRANE WITH WRB IN STEP #7

INSTALL WRB PER PRODUCT INSTALLATION INSTRUCTIONS

CUT WRB AT EDGE OF FLASHING SIDE, FOLD UP AND TEMPORARILY SECURE WRB

1 HEADER PREPARATION

2 WEATHER-RESISTIVE BARRIER (WRB)

3 HEADER PREPARATION AND SILL FLASHING

Henry RESIDENTIAL AND LIGHT COMMERCIAL WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING OR BLUESKIN VP100
- (B) BLUESKIN VP100
- (C) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (D) HENRY MOISTOP SEALANT
- (E) HENRY 212 SEALANT (US) OR KOP-R-LASTIC SEALANT (CAN)

NOTES

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3. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.

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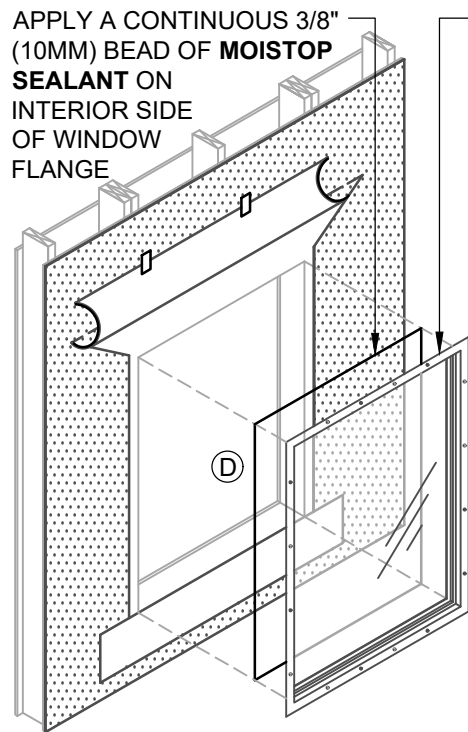
**BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A1
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED AFTER WRB - INSTALLATION SEQUENCE**

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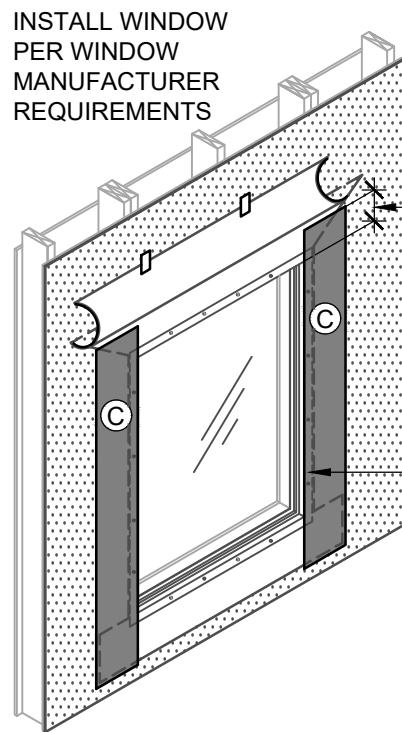
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VPWRB-6A1-L2



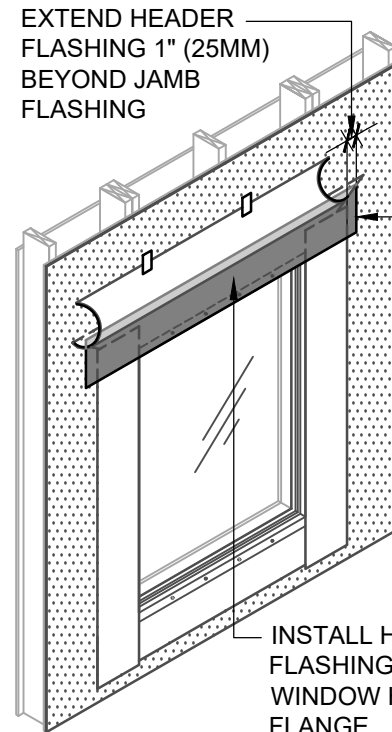
4 WINDOW INSTALLATION



5 JAMB FLASHING INSTALLATION

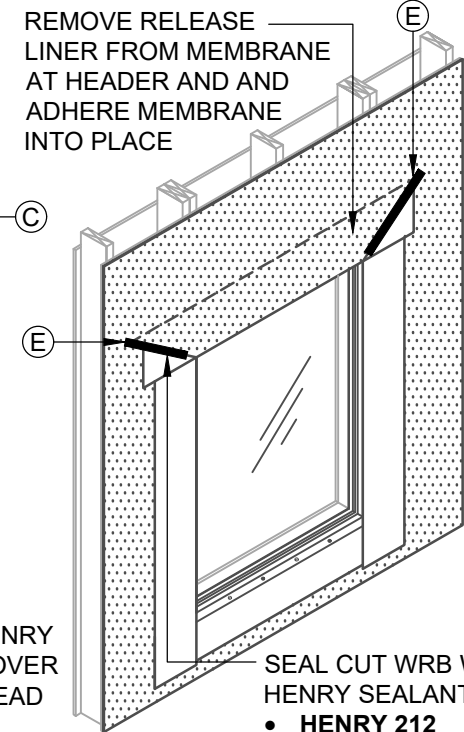
INSTALL JAMB FLASHING 1" (25MM) BELOW TOP OF HEAD FLASHING

INSTALL HENRY JAMB FLASHING OVER WINDOW JAMB FLANGE



6 HEADER FLASHING INSTALLATION

INSTALL HENRY FLASHING OVER WINDOW HEAD FLANGE



7 SECURE WRB AT HEADER

SEAL CUT WRB WITH HENRY SEALANT

- HENRY 212 SEALANT (US)
- KOP-R-LASTIC SEALANT (CAN)

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD A1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANTS AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER

FLANGED WINDOW - METHOD A1

WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED AFTER WRB - INSTALLATION SEQUENCE

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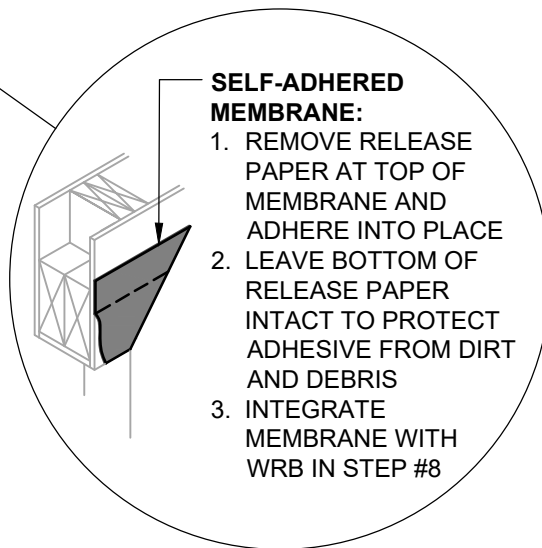
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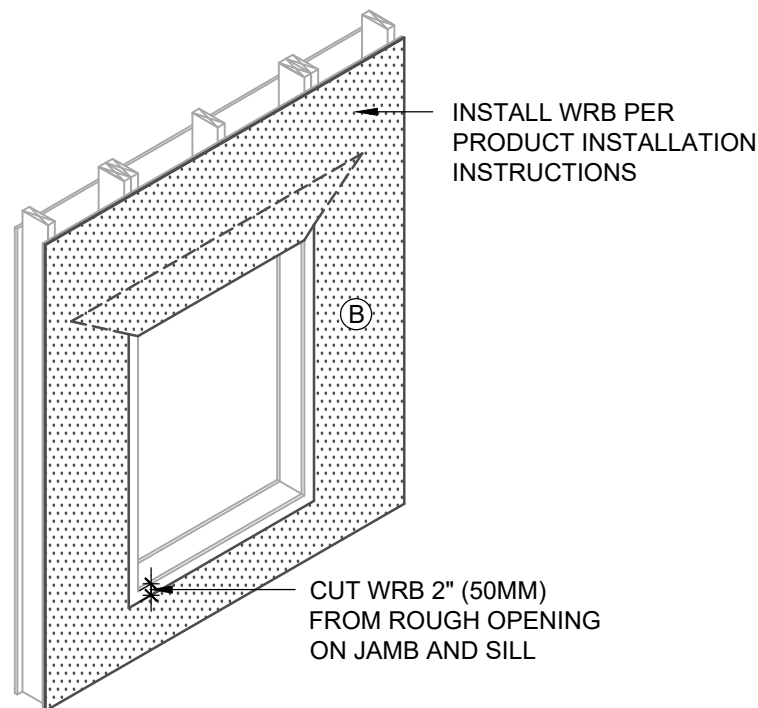
EXTEND MEMBRANE BEYOND
ROUGH OPENING TO
EQUAL JAMB FLASHING
WIDTH +3" (75MM)

1 HEADER PREPARATION



SELF-ADHERED MEMBRANE:

1. REMOVE RELEASE PAPER AT TOP OF MEMBRANE AND ADHERE INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE MEMBRANE WITH WRB IN STEP #8



2 WEATHER-RESISTIVE BARRIER (WRB)

Henry RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
- (B) BLUESKIN VP100
- (C) HENRY MOISTOP SEALANT
- (D) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (E) HENRY 212 SEALANT (US) OR KOP-R-LASTIC SEALANT (CAN)



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.
2. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
3. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.



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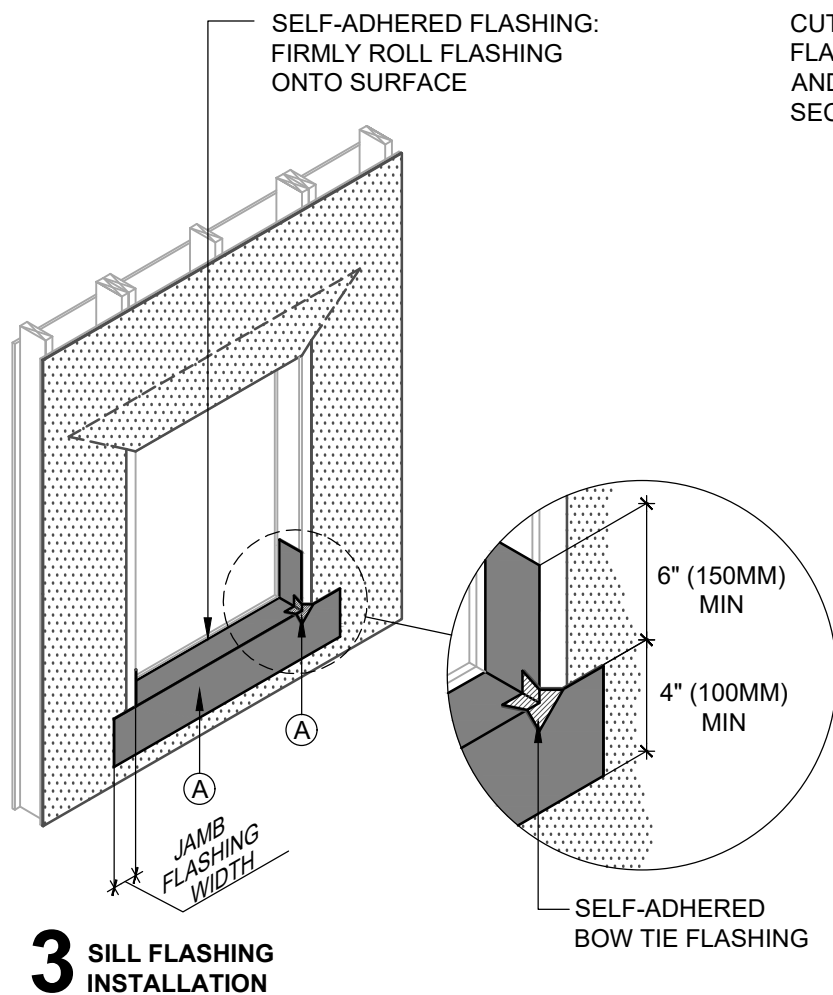
BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD A1 WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED AFTER WRB - INSTALLATION SEQUENCE

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4 HEADER
PREPARATION

5 WINDOW
INSTALLATION

INSTALL WINDOW
PER WINDOW
MANUFACTURER
REQUIREMENTS

INSTALLATION GUIDELINES AND LIMITATIONS

1. THIS DETAIL SET INCLUDES THREE PAGES. REFER TO PAGE THREE FOR FURTHER **BLUESKIN VP100** INSTALLATION GUIDELINES AND LIMITATION NOTES.
2. INSTALLATION "METHOD A1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
3. AS A BEST PRACTICE, SLOPE SILL PRIOR TO FLASHING INSTALLATION TO PROMOTE POSITIVE DRAINAGE. USE BACKDAM IN LIEU OF SHIM AS REQUIRED.

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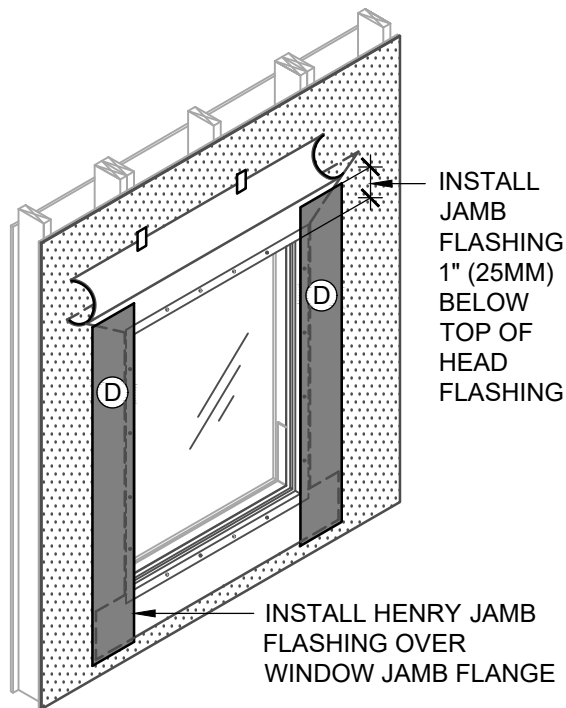
BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD A1
WINDOW INSTALLATION WITH PAN FLASHING AT SILL
FLASHING INSTALLED AFTER WRB - INSTALLATION SEQUENCE

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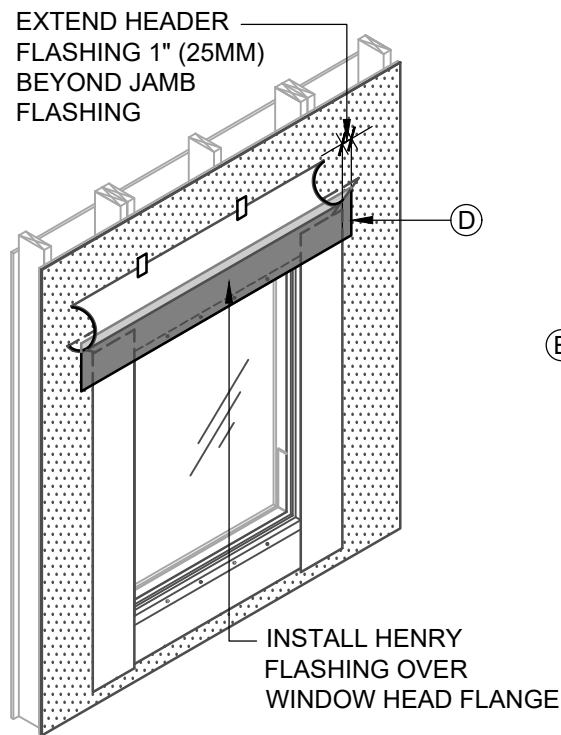
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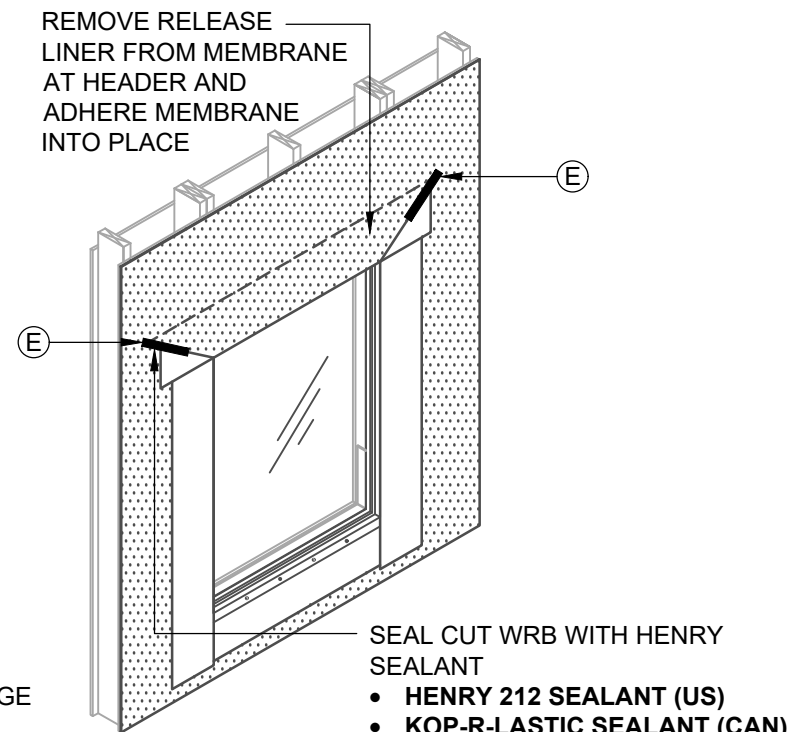
VPWRB-6A1-P2



6 JAMB FLASHING INSTALLATION



7 HEADER FLASHING INSTALLATION



8 SECURE WRB AT HEADER

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD A1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANTS AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD A1 WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED AFTER WRB - INSTALLATION SEQUENCE

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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.

EXTEND SILL FLASHING TO MATCH JAMB FLASHING WIDTH

HENRY SELF-ADHERED FLASHING (LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS)

1

HENRY SELF-ADHERED FLASHING

SET WINDOW FLANGE INTO A BED OF **MOISTOP SEALANT**

2

BLUESKIN VP100

TUCK WRB UNDER LOOSE FLASHING AND SECURE PER PRODUCT SPECIFIC INSTRUCTIONS

3

WINDOW FLASHING
ISOMETRIC VIEW

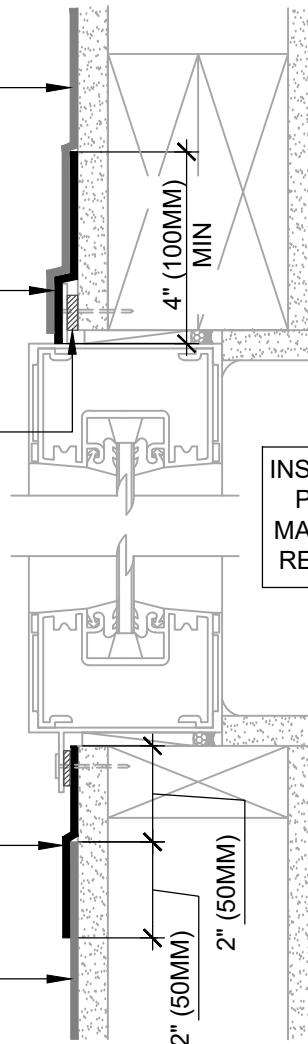
BLUESKIN VP100

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

APPLY A CONTINUOUS 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE

HENRY SELF-ADHERED FLASHING

BLUESKIN VP100



INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

ASTM E2112 - METHOD B
SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. INSTALLATION "METHOD B" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD B
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB

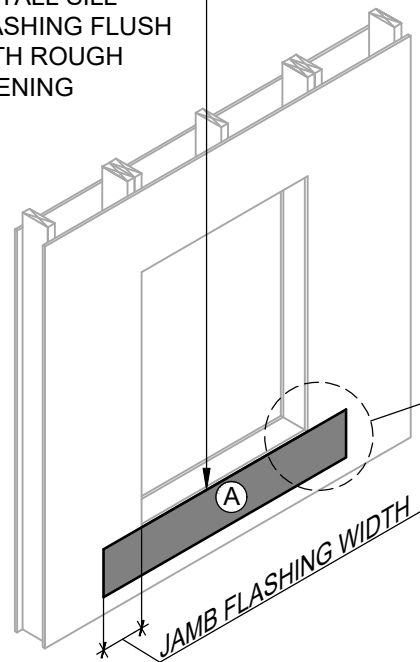
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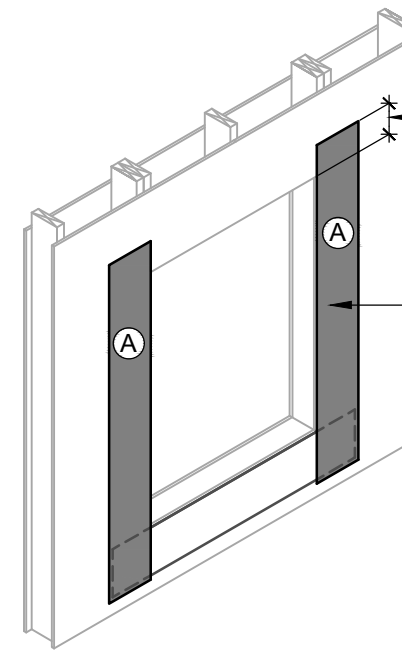
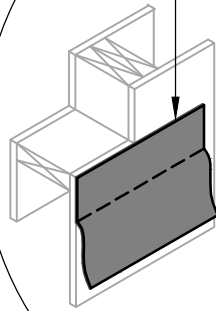
INSTALL SILL
FLASHING FLUSH
WITH ROUGH
OPENING



1 SILL FLASHING AND PREPARATION

SELF-ADHERED SILL FLASHING:

1. REMOVE RELEASE PAPER AT TOP OF FLASHING AND ADHERE TOP OF FLASHING INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE SILL FLASHING WITH WRB IN STEP #5



INSTALL JAMB
FLASHING 1" (25MM)
BELOW TOP OF
HEADER FLASHING

INSTALL JAMB
FLASHING FLUSH
WITH ROUGH
OPENING

2 JAMB FLASHING INSTALLATION



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM
WEATHER-RESISTIVE BARRIER (WRB)
INSTALLATION GUIDELINES

NOTES

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WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
- (B) HENRY MOISTOP SEALANT
- (C) HENRY SELF-ADHERED
OR HENRY LIQUID APPLIED FLASHING
- (D) BLUESKIN VP100



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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD B
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

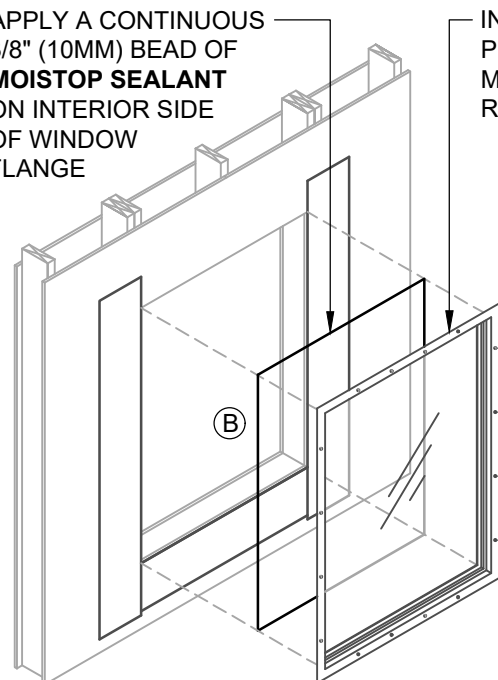
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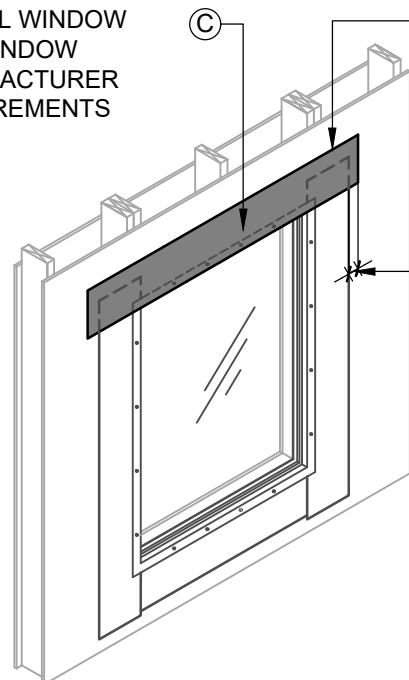
VPWRB-6B-L2

APPLY A CONTINUOUS
3/8" (10MM) BEAD OF
MOISTOP SEALANT
ON INTERIOR SIDE
OF WINDOW
FLANGE



3 WINDOW INSTALLATION

INSTALL WINDOW
PER WINDOW
MANUFACTURER
REQUIREMENTS

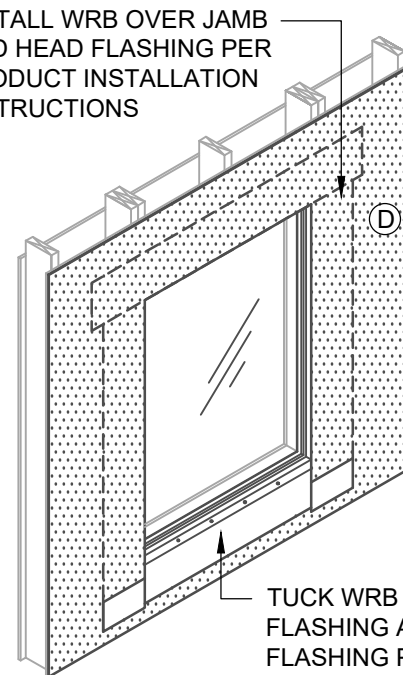


4 WINDOW INSTALLATION

INSTALL
HEADER
FLASHING
OVER
WINDOW
HEAD
FLANGE

EXTEND
HEADER
FLASHING
1" (25MM)
MINIMUM
BEYOND JAMB
FLASHING

INSTALL WRB OVER JAMB
AND HEAD FLASHING PER
PRODUCT INSTALLATION
INSTRUCTIONS



5 WEATHER-RESISTIVE BARRIER (WRB)

TUCK WRB UNDER LOOSE SILL
FLASHING AND SECURE SILL
FLASHING PER PRODUCT
SPECIFIC INSTRUCTIONS

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD B" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE **MOISTOP SEALANT** OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
6. USE EXTERIOR GRADE FASTENERS TO INSTALL AND SECURE FLASHINGS AND WEATHER-RESISTIVE BARRIER UNTIL COVERED WITH EXTERIOR CLADDING.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED FLASHING MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
9. ROLL SELF-ADHERED FLASHING TO OBTAIN CONTINUOUS ADHESION.
10. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
11. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B

WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

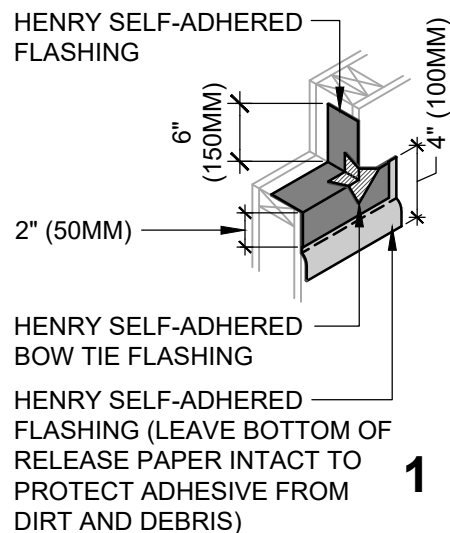
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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY
ACCEPTED METHODS OF WINDOW INSTALLATION.



BLUESKIN VP100

HENRY
SELF-ADHERED OR
HENRY LIQUID
APPLIED FLASHING

APPLY A 3/8"
(10MM) BEAD OF
MOISTOP SEALANT
ON INTERIOR SIDE
OF WINDOW FLANGE
(INTERMITTENTLY
ON SILL FLANGE TO
ALLOW FOR
DRAINAGE)

HENRY
SELF-ADHERED OR
HENRY LIQUID
APPLIED
FLASHING

BLUESKIN VP100
TUCK WRB UNDER
LOOSE FLASHING
AND SECURE PER
PRODUCT
SPECIFIC
INSTRUCTIONS

WINDOW FLASHING
ISOMETRIC VIEW

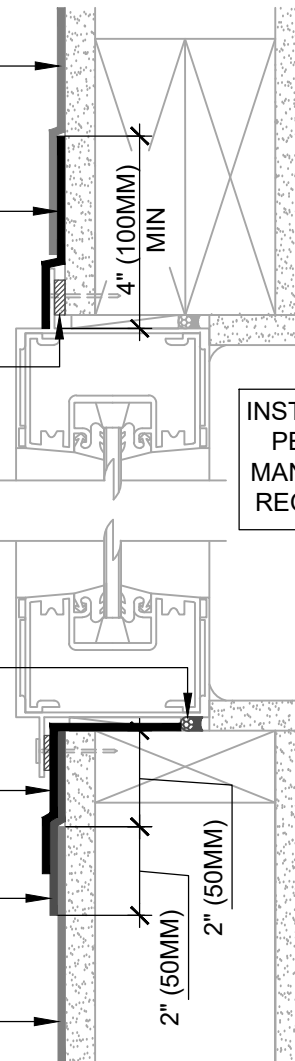
INTERIOR AIR
AND WATER SEAL

HENRY
SELF-ADHERED
FLASHING

HENRY
SELF-ADHERED
FLASHING

BLUESKIN VP100

ASTM E2112 - METHOD B
SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. INSTALLATION "METHOD B" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
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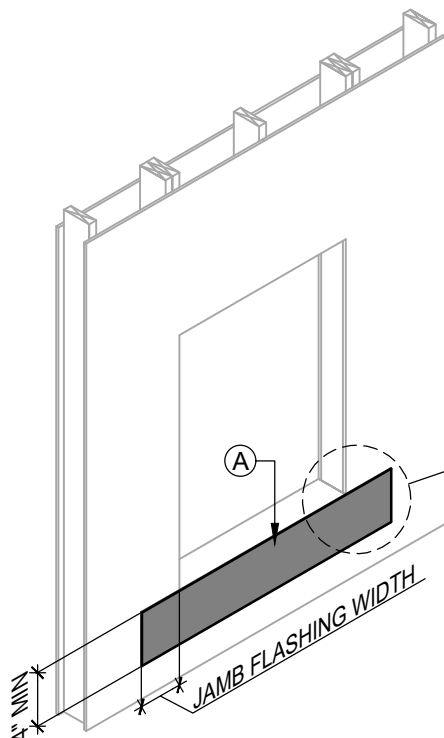
BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD B
WINDOW INSTALLATION WITH PAN FLASHING AT SILL
FLASHING INSTALLED BEFORE WRB

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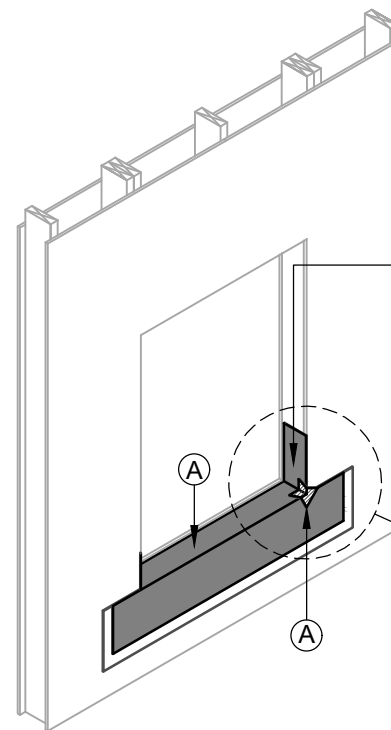
PAGE 1 OF 1

VPWRB-6B-P1



1 SILL FLASHING PREPARATION

- SELF-ADHERED FLASHING:**
1. REMOVE RELEASE PAPER AT TOP OF FLASHING AND ADHERE TOP OF FLASHING INTO PLACE
 2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
 3. INTEGRATE FLASHING WITH WRB IN STEP #7



2 SILL FLASHING INSTALLATION



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
- (B) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (C) HENRY MOISTOP SEALANT
- (D) BLUESKIN VP100



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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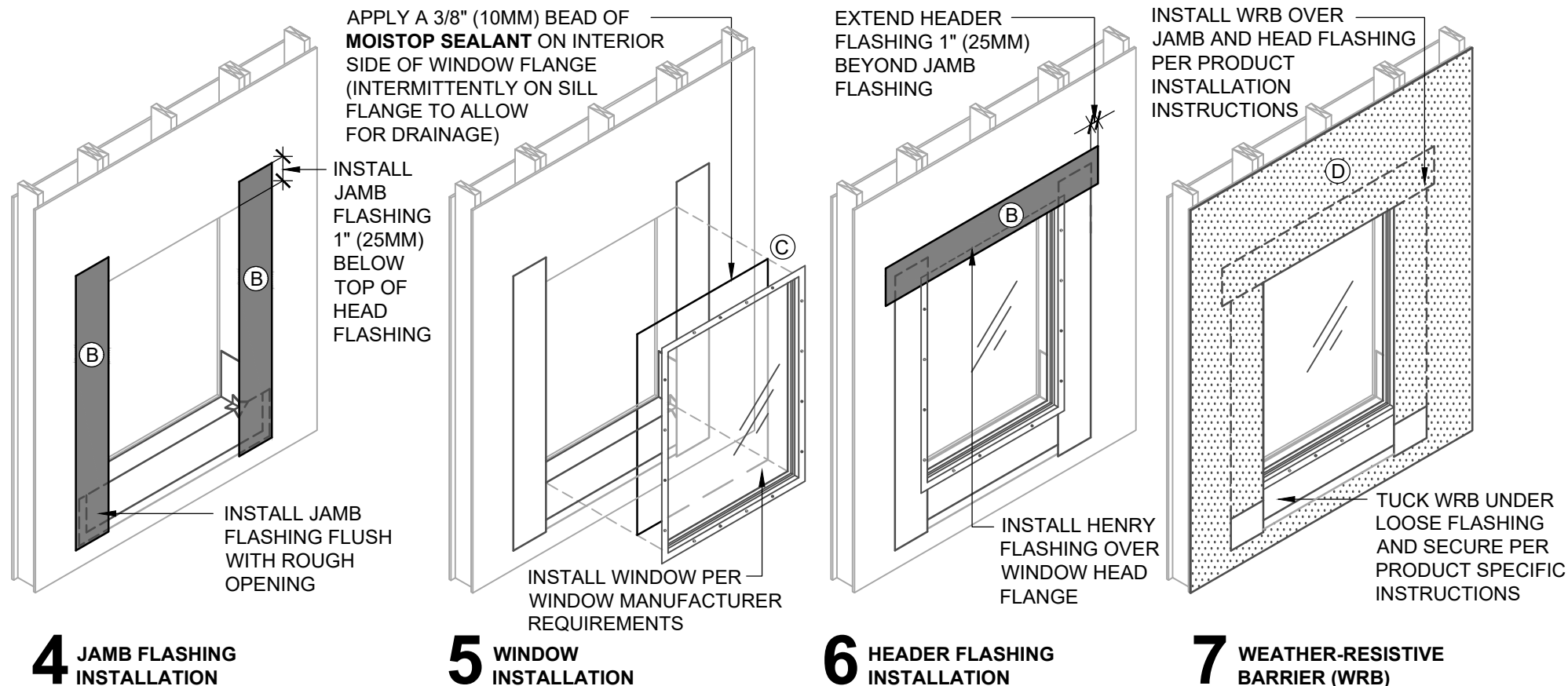
BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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INSTALLATION GUIDELINES AND LIMITATIONS

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7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED FLASHING MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
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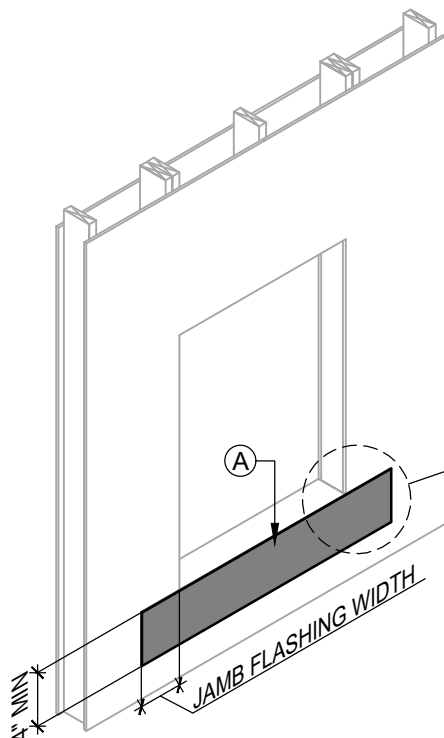
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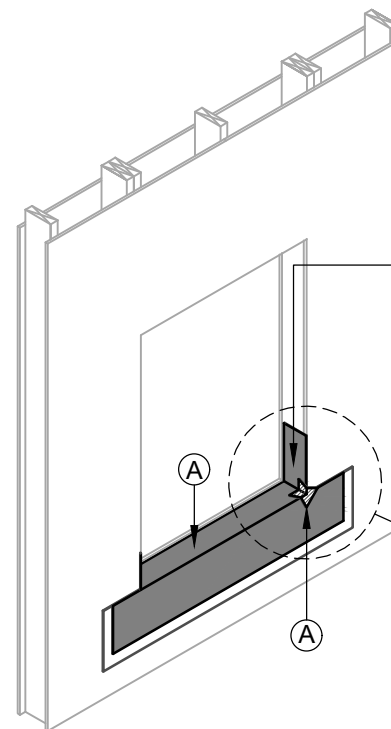
PAGE 2 OF 2

VPWRB-6B-P2



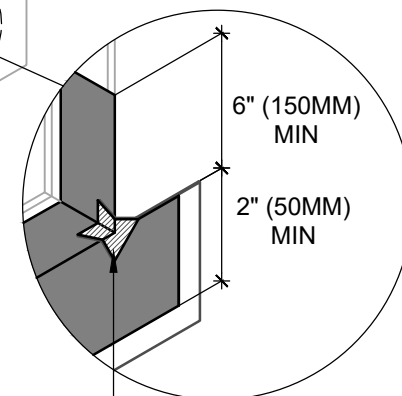
1 SILL FLASHING PREPARATION

- SELF-ADHERED FLASHING:**
1. REMOVE RELEASE PAPER AT TOP OF FLASHING AND ADHERE TOP OF FLASHING INTO PLACE
 2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
 3. INTEGRATE FLASHING WITH WRB IN STEP #7



2 SILL FLASHING INSTALLATION

SELF-ADHERED FLASHING:
FIRMLY ROLL FLASHING ONTO SURFACE



SELF-ADHERED BOW TIE FLASHING



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
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- (C) HENRY MOISTOP SEALANT
- (D) BLUESKIN VP100



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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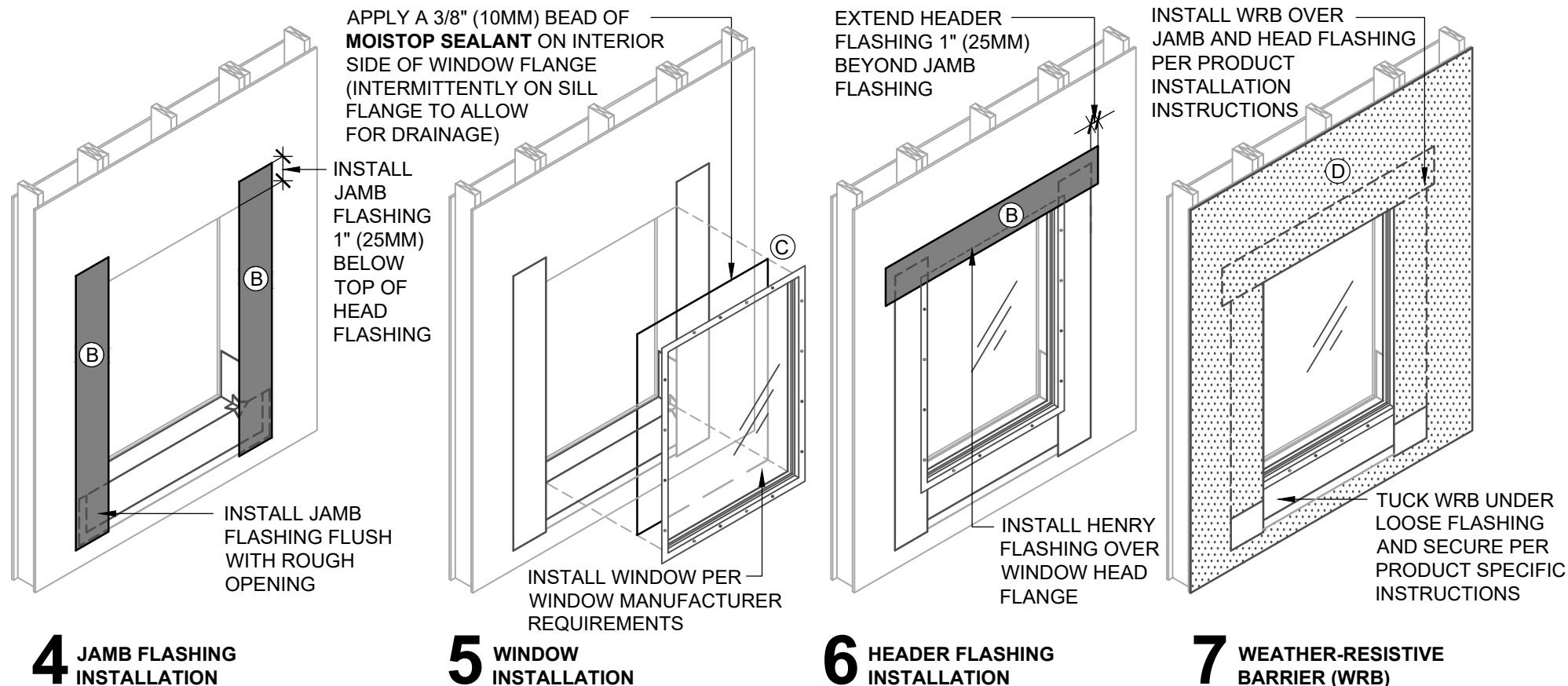
BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD B" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE **MOISTOP SEALANT** OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
6. USE EXTERIOR GRADE FASTENERS TO INSTALL AND SECURE FLASHINGS AND WEATHER-RESISTIVE BARRIER UNTIL COVERED WITH EXTERIOR CLADDING.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED FLASHING MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B

WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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VPWRB-6B-P2

THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.

BLUESKIN VP100

(CUT WRB 2" (50MM) FROM ROUGH OPENING ON JAMB AND SILL)

EXTEND SILL FLASHING TO MATCH JAMB FLASHING WIDTH

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

1

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

2

SET WINDOW FLANGE INTO A BED OF **MOISTOP SEALANT**

3

WINDOW FLASHING
ISOMETRIC VIEW

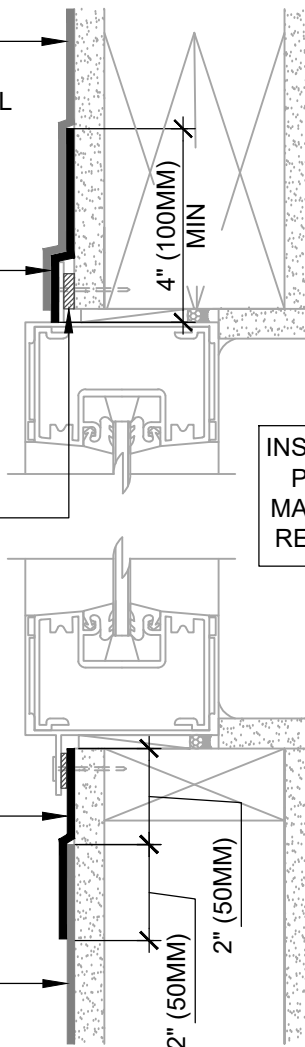
BLUESKIN VP100 (SEE SEQUENCE INSTALLATION DETAIL FOR HEADER PREPARATION GUIDELINES)

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

APPLY A CONTINUOUS 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

BLUESKIN VP100



INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

ASTM E2112 - METHOD B1
SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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3. INSTALLATION "METHOD B1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD B1
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB

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VPWRB-6B1-L1

THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.

BLUESKIN VP100

(CUT WRB 2" (50MM) FROM ROUGH OPENING ON JAMB AND SILL)

EXTEND SILL FLASHING TO MATCH JAMB FLASHING WIDTH

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

1

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

2

SET WINDOW FLANGE INTO A BED OF **MOISTOP SEALANT**

3

WINDOW FLASHING
ISOMETRIC VIEW

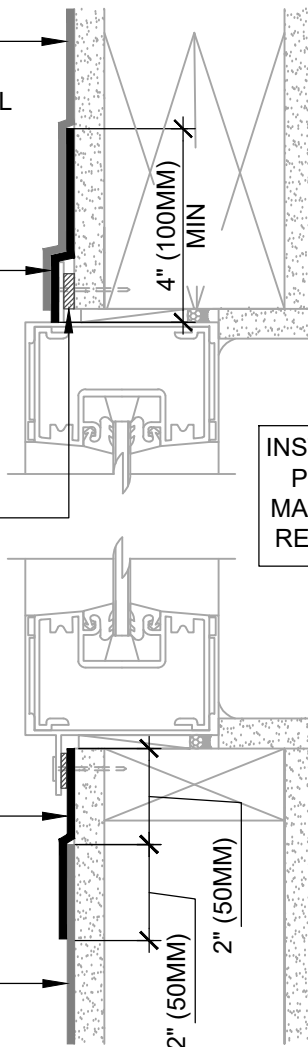
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APPLY A CONTINUOUS 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW FLANGE

HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING

BLUESKIN VP100



INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

ASTM E2112 - METHOD B1
SECTION VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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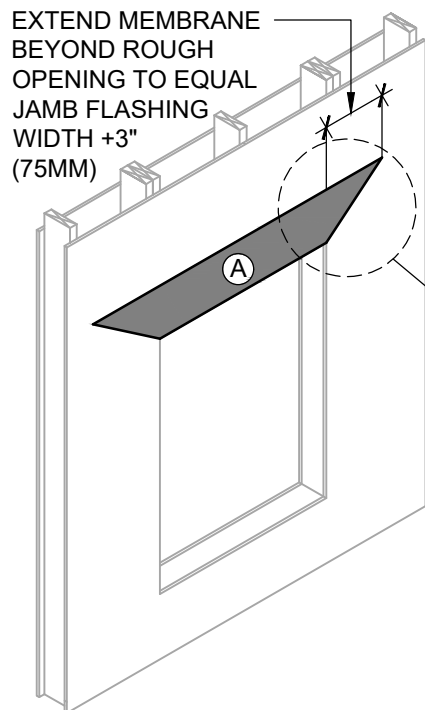
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FLANGED WINDOW - METHOD B1
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FLASHING INSTALLED BEFORE WRB

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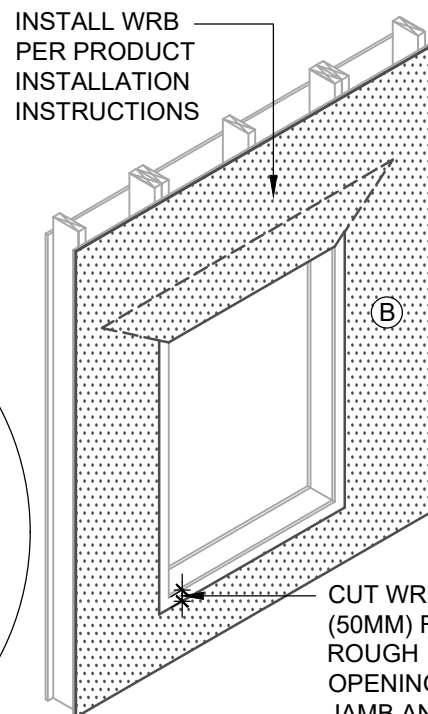
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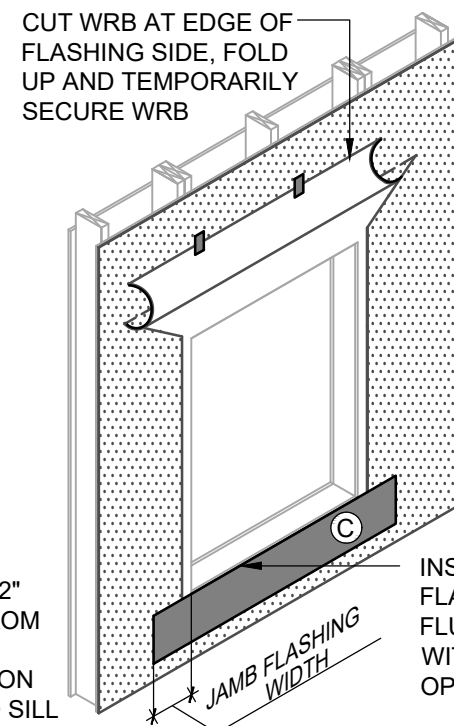
1 HEADER FLASHING INSTALLATION

SELF-ADHERED MEMBRANE:

1. REMOVE RELEASE PAPER AT TOP OF MEMBRANE AND ADHERE INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE HEADER MEMBRANE WITH WRB IN STEP #7



2 WEATHER-RESISTIVE BARRIER (WRB)



3 HEADER PREPARATION AND SILL FLASHING

Henry. RESIDENTIAL AND LIGHT COMMERCIAL WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING OR BLUESKIN VP100
- (B) BLUESKIN VP100
- (C) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
- (D) HENRY MOISTOP SEALANT
- (E) HENRY 212 SEALANT (US) OR KOP-R-LASTIC SEALANT (CAN)

NOTES

1. THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.
2. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
3. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.



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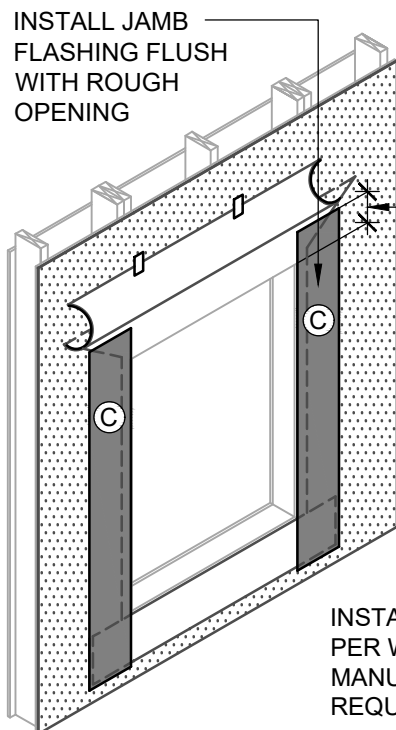
BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B1 WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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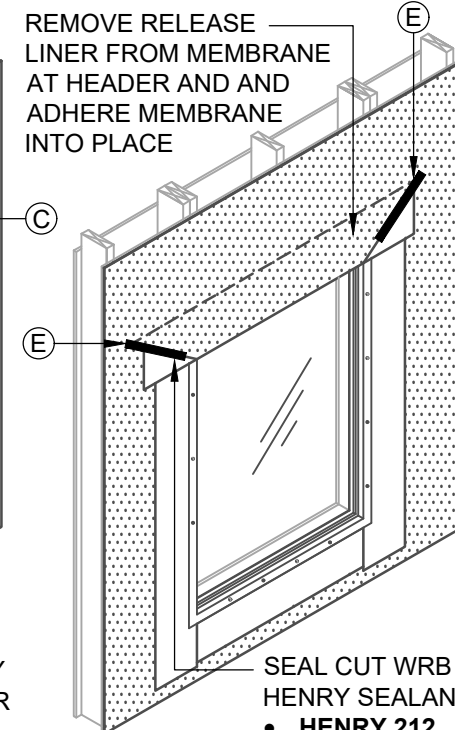
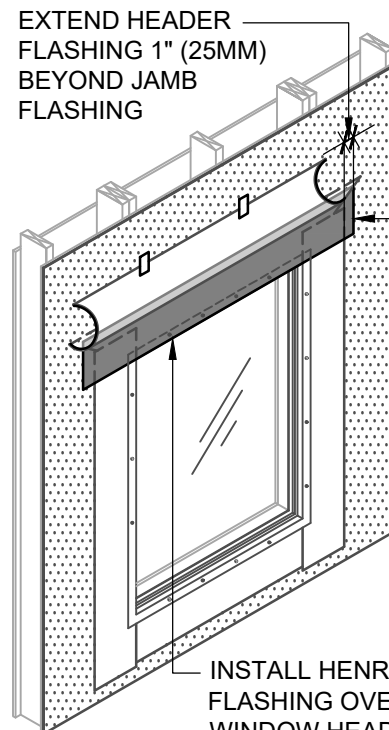
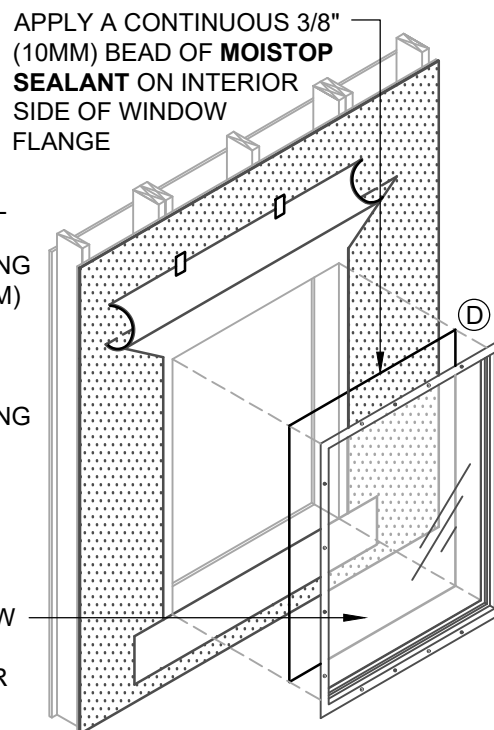
PAGE 1 OF 2

VPWRB-6B1-L2



INSTALL JAMB FLASHING 1" (25MM) BELOW TOP OF HEAD FLASHING

INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS



SEAL CUT WRB WITH HENRY SEALANT

- HENRY 212 SEALANT (US)
- KOP-R-LASTIC SEALANT (CAN)

4 JAMB FLASHING INSTALLATION

5 WINDOW INSTALLATION

6 HEADER FLASHING INSTALLATION

7 SECURE WRB AT HEADER

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD B1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANTS AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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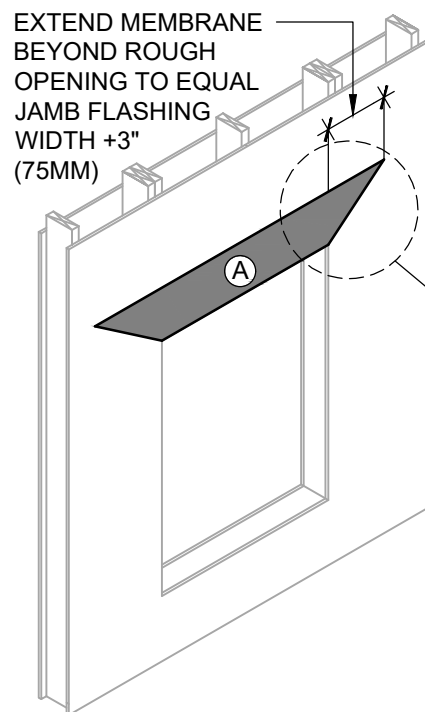
BLUESKIN VP100 SELF-ADHERED AIR BARRIER
FLANGED WINDOW - METHOD B1
WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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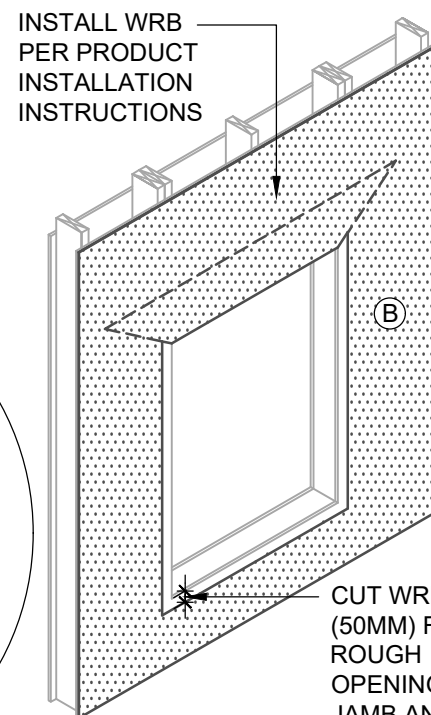
VPWRB-6B1-L2



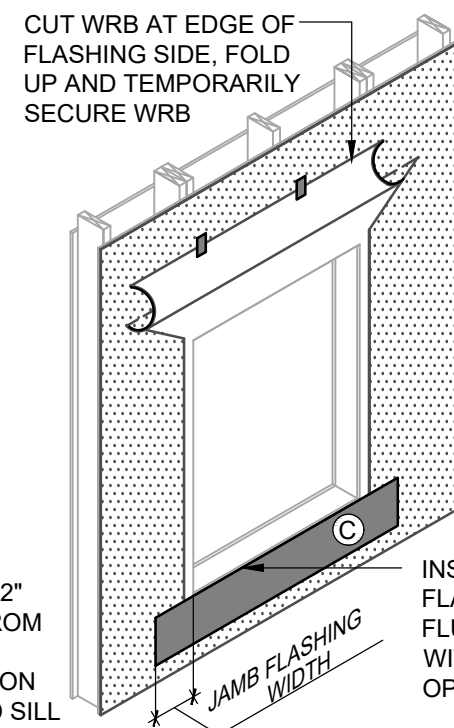
1 HEADER FLASHING INSTALLATION

SELF-ADHERED MEMBRANE:

1. REMOVE RELEASE PAPER AT TOP OF MEMBRANE AND ADHERE INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE HEADER MEMBRANE WITH WRB IN STEP #7



2 WEATHER-RESISTIVE BARRIER (WRB)



3 HEADER PREPARATION AND SILL FLASHING

Henry

RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

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- (B) BLUESKIN VP100
- (C) HENRY SELF-ADHERED OR HENRY LIQUID APPLIED FLASHING
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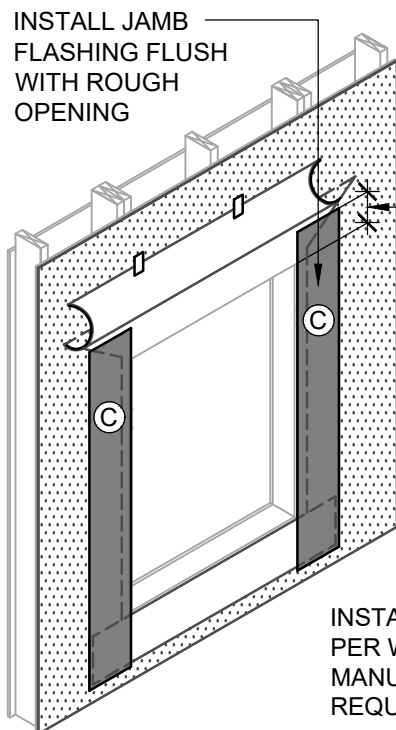
BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B1 WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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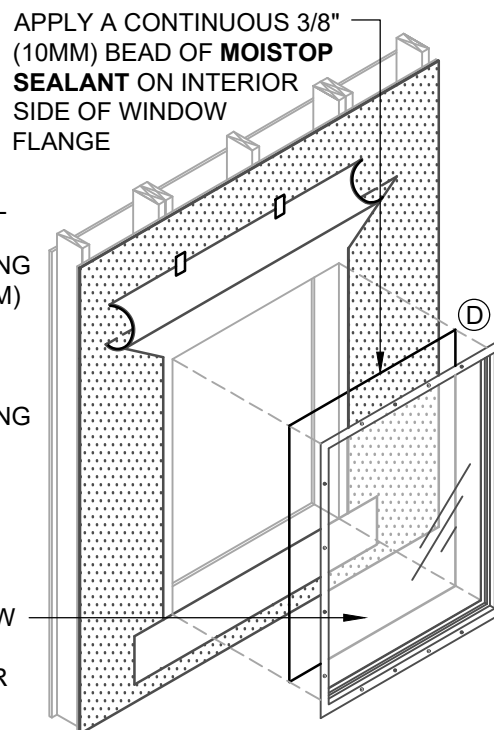
PAGE 1 OF 2

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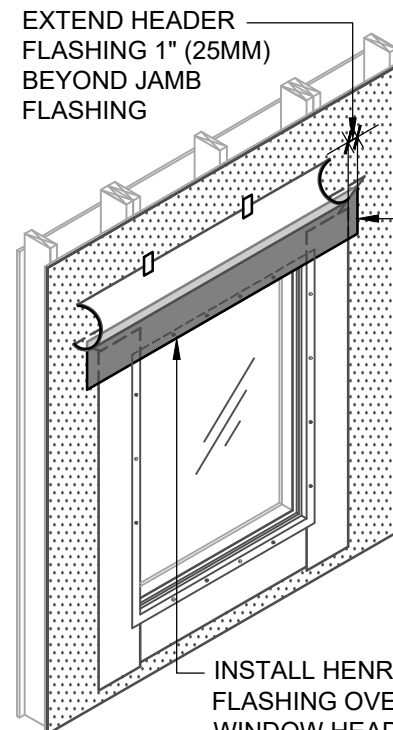


INSTALL JAMB FLASHING 1" (25MM) BELOW TOP OF HEAD FLASHING

INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS

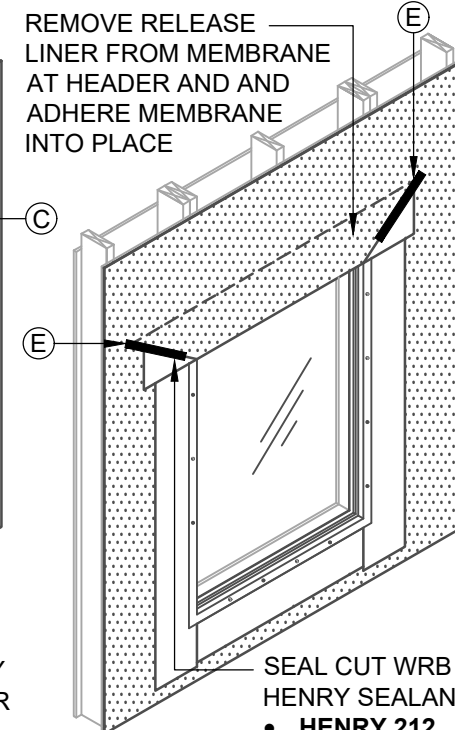


APPLY A CONTINUOUS 3/8" (10MM) BEAD OF **MOISTOP SEALANT** ON INTERIOR SIDE OF WINDOW HEAD FLANGE



EXTEND HEADER FLASHING 1" (25MM) BEYOND JAMB FLASHING

INSTALL HENRY FLASHING OVER WINDOW HEAD FLANGE



REMOVE RELEASE LINER FROM MEMBRANE AT HEADER AND ADHERE MEMBRANE INTO PLACE

SEAL CUT WRB WITH HENRY SEALANT

- **HENRY 212 SEALANT (US)**
- **KOP-R-LASTIC SEALANT (CAN)**

4 JAMB FLASHING INSTALLATION

5 WINDOW INSTALLATION

6 HEADER FLASHING INSTALLATION

7 SECURE WRB AT HEADER

INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD B1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANTS AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. INSTALLATIONS WITHOUT A DRAINAGE SILL PAN ARE LIMITED TO LOW WIND AND WATER EXPOSURE CONDITIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B1

**WINDOW INSTALLATION FOR LOW WIND AND WATER EXPOSURE
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE**

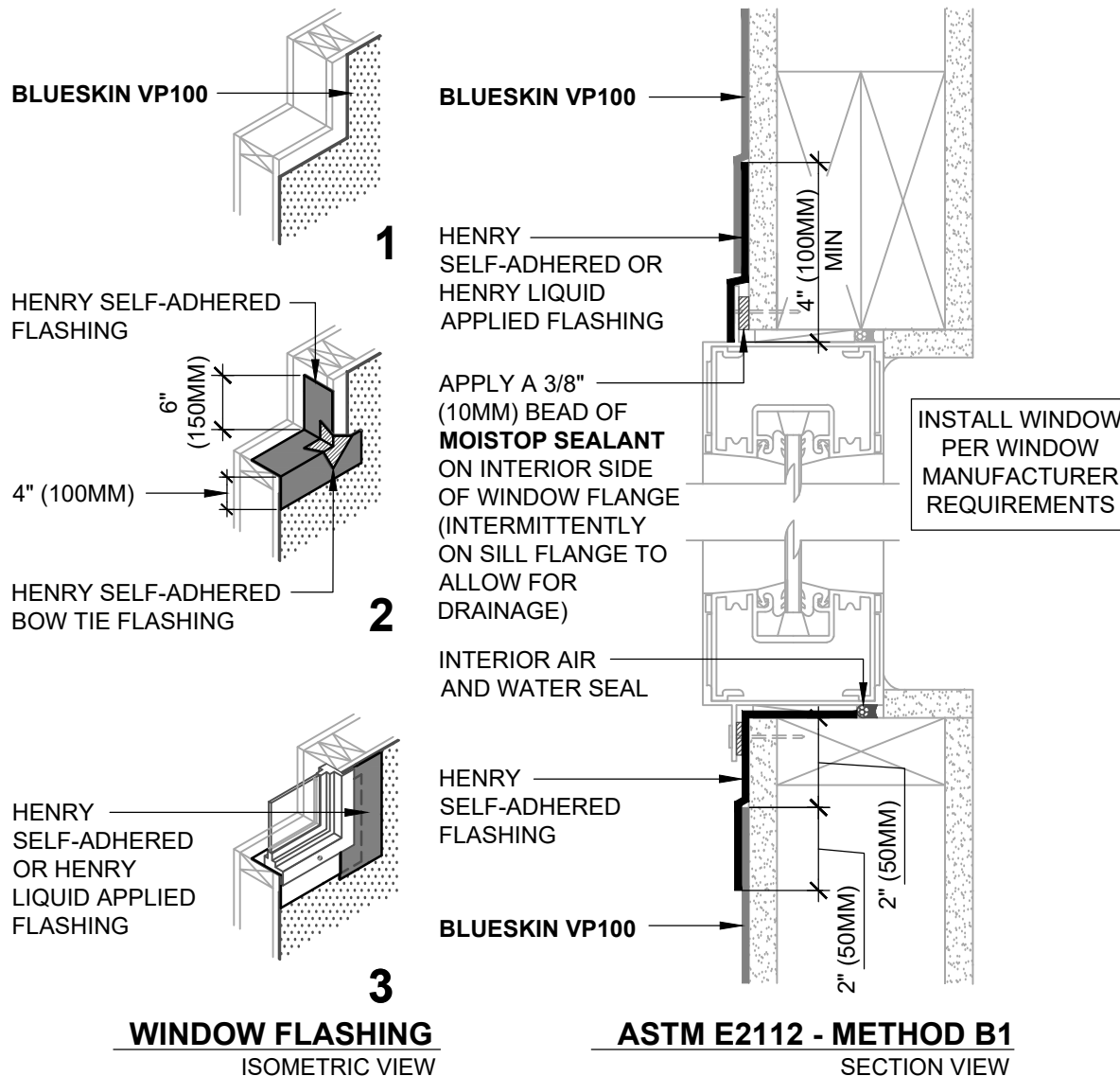
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THE DEPICTED DETAIL SHOWS ONE OF THE SEVERAL COMMONLY ACCEPTED METHODS OF WINDOW INSTALLATION.



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. INSTALLATION "METHOD B1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
4. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
5. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
6. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
7. SUBSTRATES MUST BE CLEAN AND DRY.
8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B1 WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB

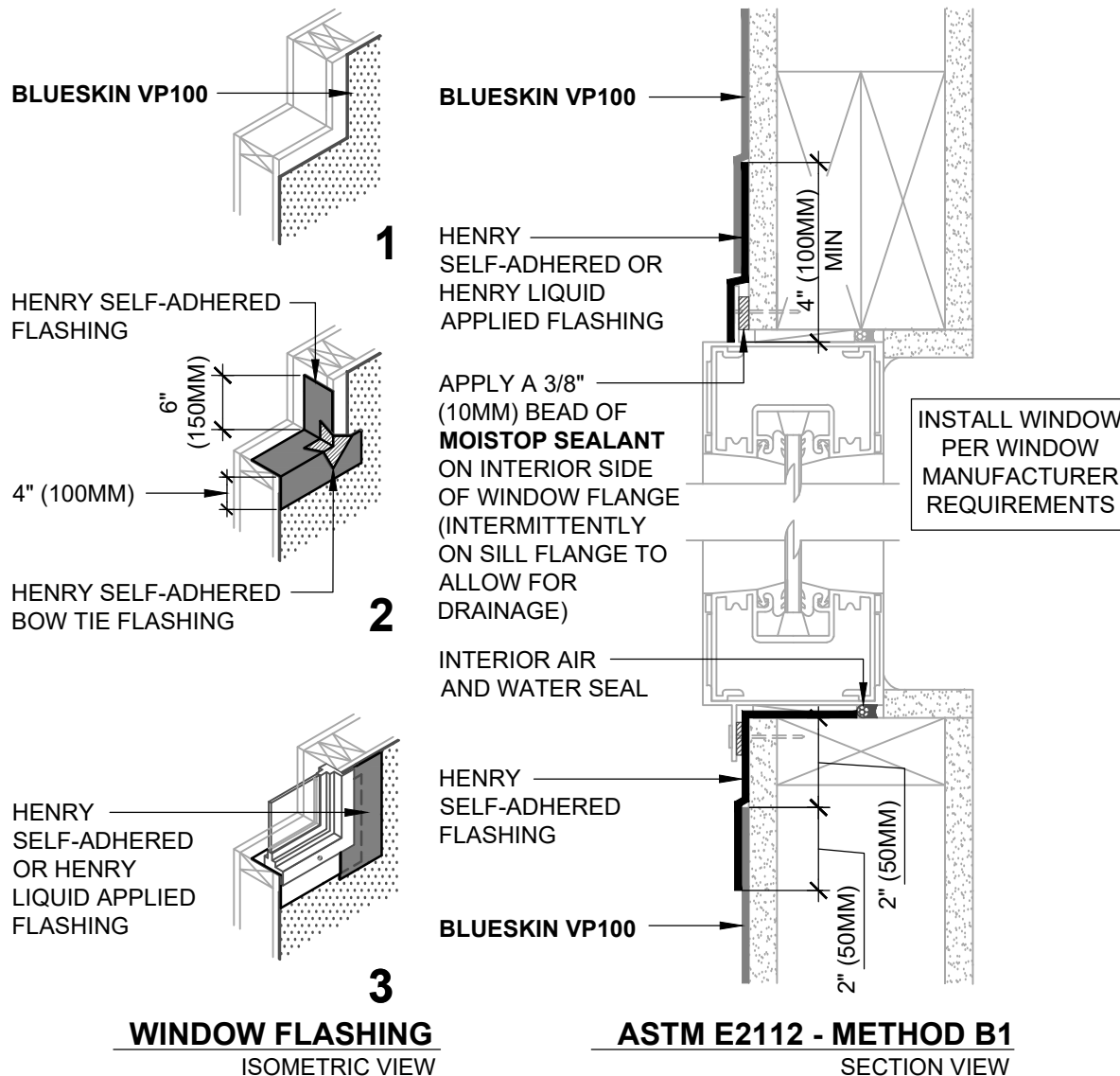
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HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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8. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
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BLUESKIN VP100 SELF-ADHERED AIR BARRIER FLANGED WINDOW - METHOD B1 WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB

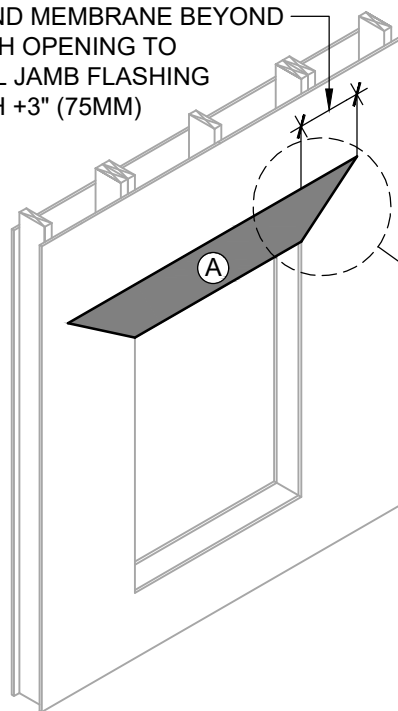
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PAGE 1 OF 1

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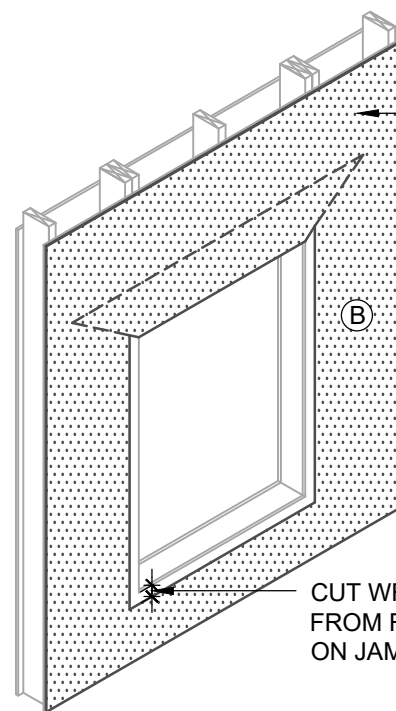
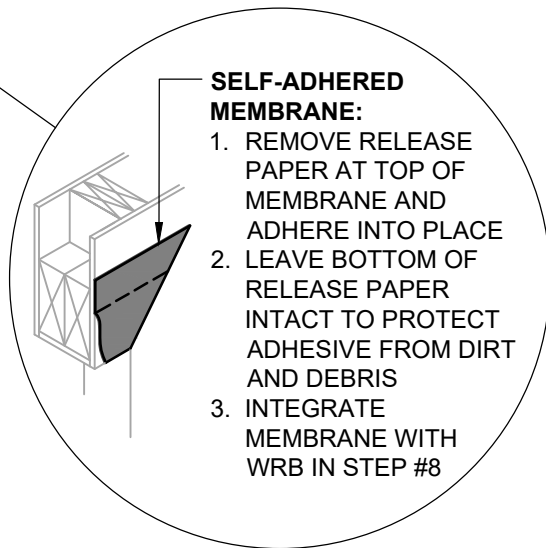
EXTEND MEMBRANE BEYOND
ROUGH OPENING TO
EQUAL JAMB FLASHING
WIDTH +3" (75MM)



1 HEADER PREPARATION

SELF-ADHERED MEMBRANE:

1. REMOVE RELEASE PAPER AT TOP OF MEMBRANE AND ADHERE INTO PLACE
2. LEAVE BOTTOM OF RELEASE PAPER INTACT TO PROTECT ADHESIVE FROM DIRT AND DEBRIS
3. INTEGRATE MEMBRANE WITH WRB IN STEP #8



INSTALL WRB PER
PRODUCT INSTALLATION
INSTRUCTIONS

CUT WRB 2" (50MM)
FROM ROUGH OPENING
ON JAMB AND SILL

2 WEATHER-RESISTIVE BARRIER (WRB)



RESIDENTIAL AND LIGHT COMMERCIAL
WEATHER-RESISTIVE BARRIER ASSEMBLY



HENRY 1-2-3 MOISTURE CONTROL SYSTEM
WEATHER-RESISTIVE BARRIER (WRB)
INSTALLATION GUIDELINES

WEATHER-RESISTIVE BARRIER (WRB) COMPONENTS

- (A) HENRY SELF-ADHERED FLASHING
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- (C) HENRY SELF-ADHERED
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- (E) HENRY 212 SEALANT (US) OR KOP-R-LASTIC SEALANT (CAN)

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER

FLANGED WINDOW - METHOD B1

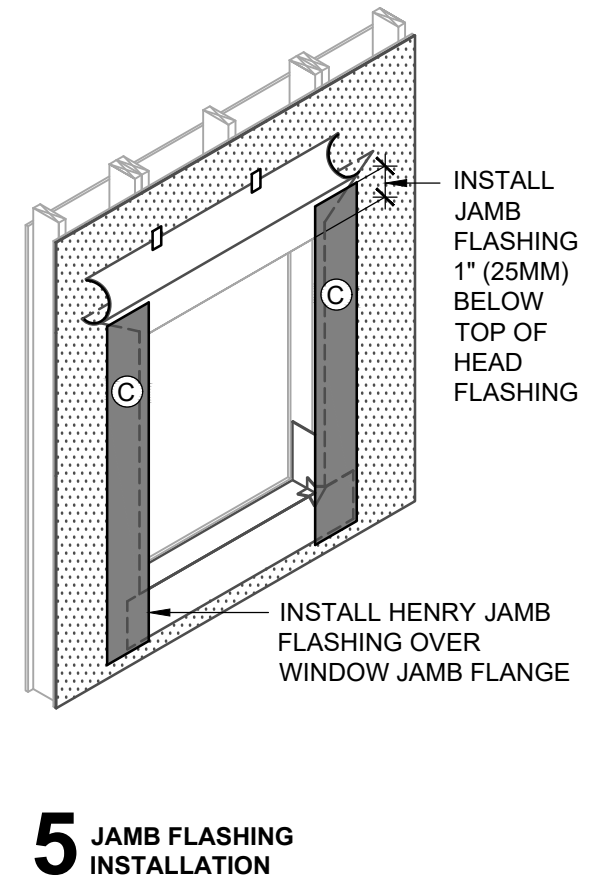
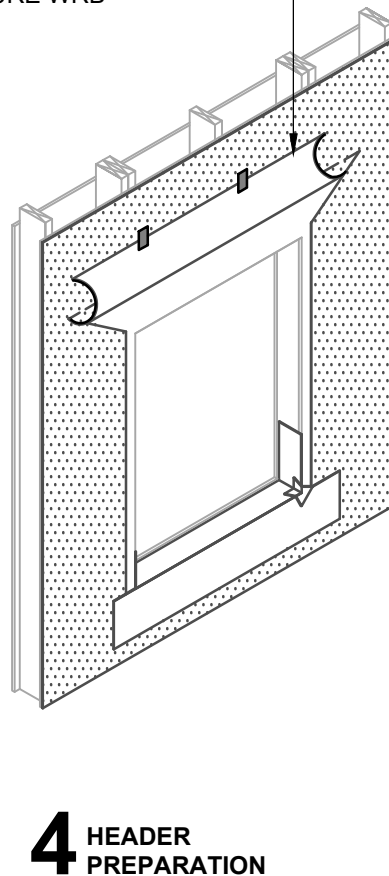
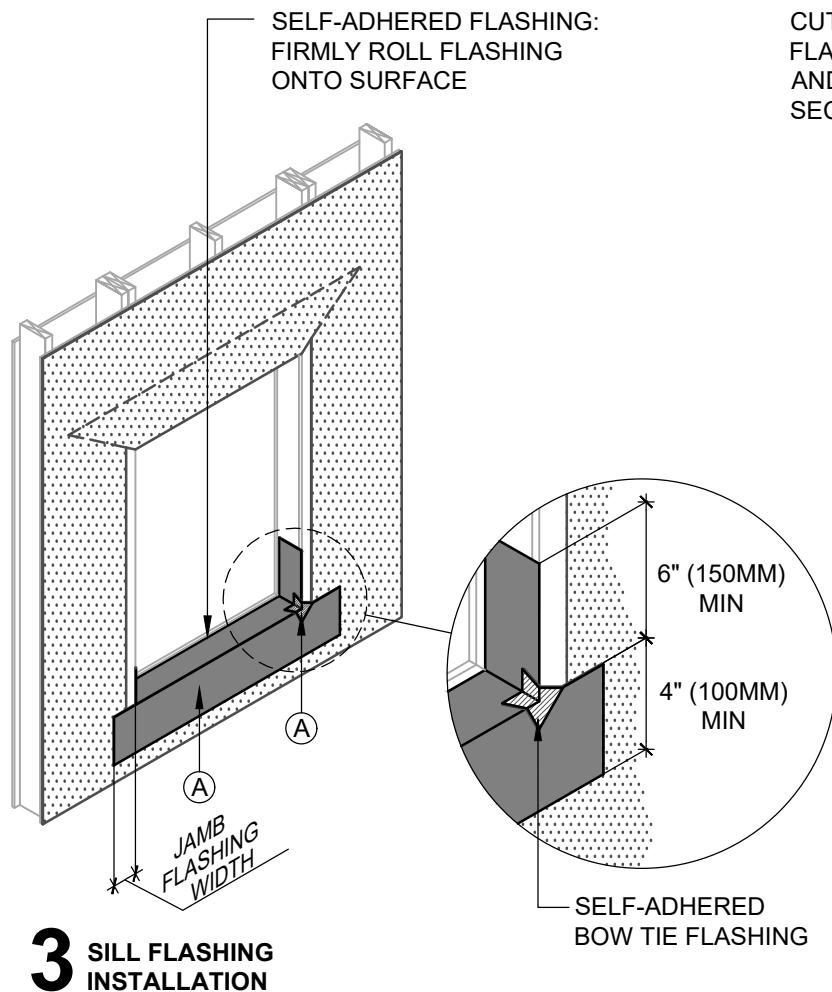
WINDOW INSTALLATION WITH PAN FLASHING AT SILL
FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

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INSTALLATION GUIDELINES AND LIMITATIONS

1. THIS DETAIL SET INCLUDES THREE PAGES. REFER TO PAGE THREE FOR FURTHER **BLUESKIN VP100** INSTALLATION GUIDELINES AND LIMITATION NOTES.
2. INSTALLATION "METHOD A1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
3. AS A BEST PRACTICE, SLOPE SILL PRIOR TO FLASHING INSTALLATION TO PROMOTE POSITIVE DRAINAGE. USE BACKDAM IN LIEU OF SHIM AS REQUIRED.

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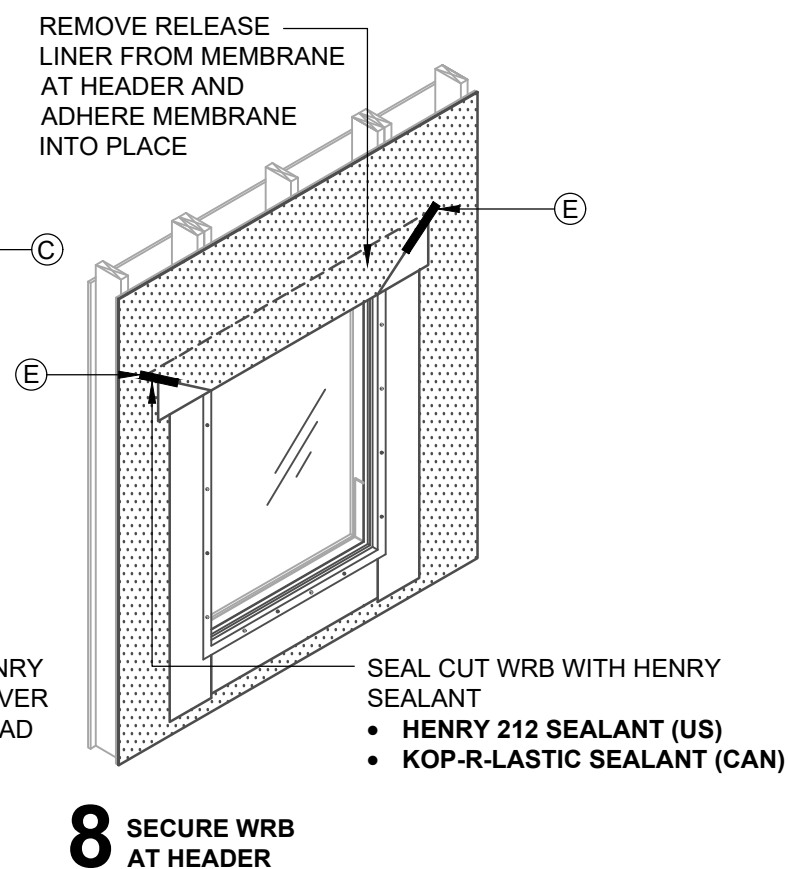
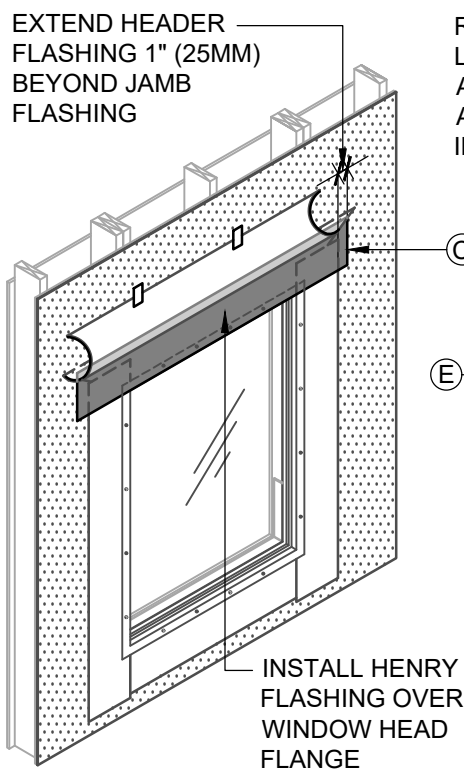
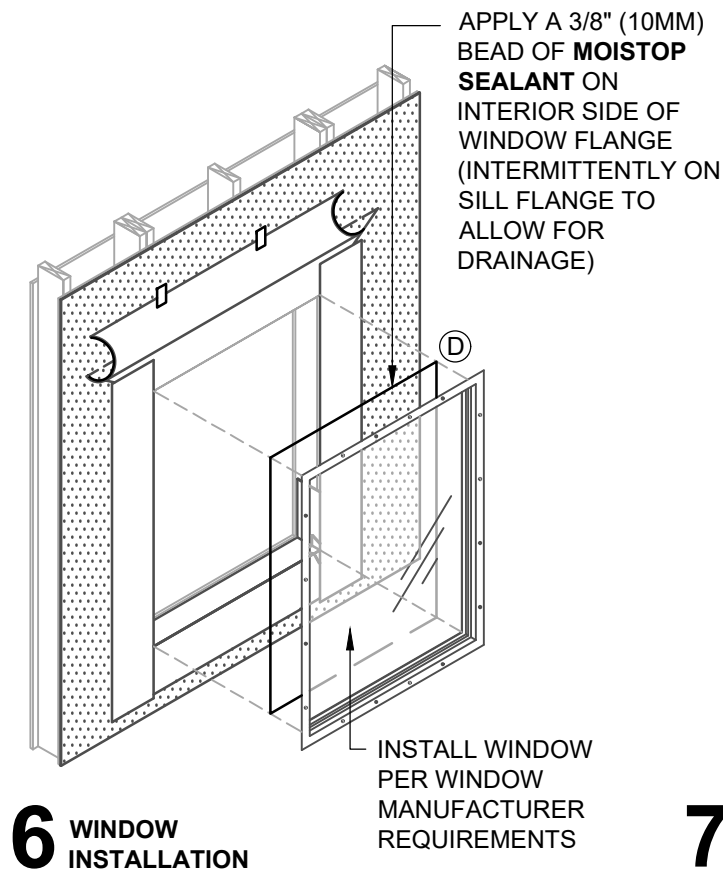
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INSTALLATION GUIDELINES AND LIMITATIONS

1. INSTALLATION "METHOD B1" REFERS TO COMMON WINDOWS (SURFACE MOUNTED). INSTALL WINDOW PER WINDOW MANUFACTURER REQUIREMENTS.
2. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
3. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS.
4. FLASHINGS MAY NOT BE COMPATIBLE WITH ALL SEALANTS. USE SEALANTS AS INDICATED OR VERIFY COMPATIBILITY AS DIRECTED IN AAMA 713.
5. PROVIDE INTERIOR AIR AND WATER SEAL AT WINDOW PERIMETER PER WINDOW MANUFACTURER RECOMMENDATIONS.
6. SUBSTRATES MUST BE CLEAN AND DRY.
7. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES.
8. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
9. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
10. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER

FLANGED WINDOW - METHOD B1

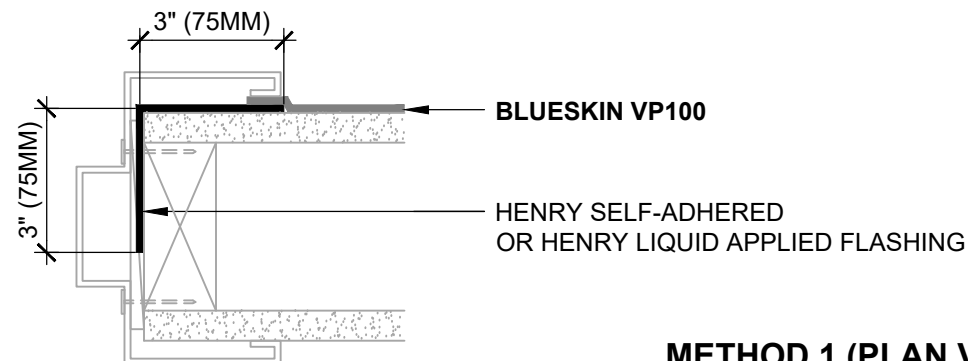
WINDOW INSTALLATION WITH PAN FLASHING AT SILL FLASHING INSTALLED BEFORE WRB - INSTALLATION SEQUENCE

MANUFACTURER INSTALLATION GUIDELINES ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION. DETAILS ARE NOT TO SCALE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRODUCT INFORMATION, RECOMMENDED AUXILIARY COMPONENTS AND INSTALLATION INSTRUCTIONS.

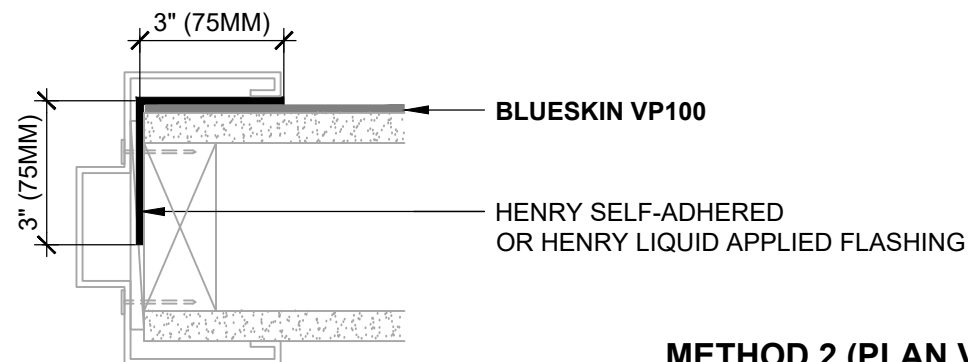
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PAGE 3 OF 3

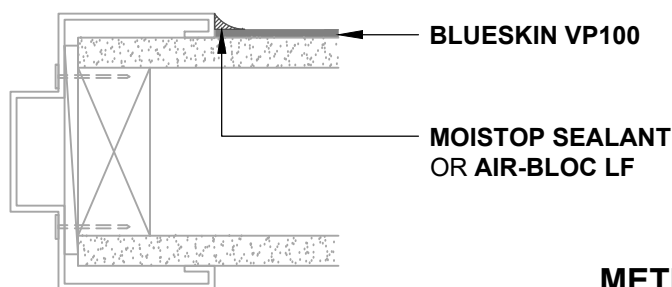
VPWRB-6B1-P2



METHOD 1 (PLAN VIEW)
FLASHING INSTALLED BEFORE WRB



METHOD 2 (PLAN VIEW)
FLASHING INSTALLED AFTER WRB



METHOD 3 (PLAN VIEW)
DOOR INSTALLED BEFORE WRB



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
9. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER
DOOR JAMB
TYPICAL JAMB FLASHING OPTIONS
HOLLOW METAL DOOR

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HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
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BLUESKIN VP100

HENRY 212 SEALANT (US) OR
KOP-R-LASTIC SEALANT (CAN)
FULLY COAT REVERSE LAP AND
TROWEL TO PROMOTE WATER
SHEDDING

HENRY SELF-ADHERED
MEMBRANE OR HENRY LIQUID
APPLIED FLASHING

2" (50MM)

REVERSE LAPS (SECTION VIEW)

FLASHING INSTALLED AFTER WRB

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER REVERSE LAP

TERMINATION AT REVERSE LAP
LAPPING ONTO BLUESKIN VP100

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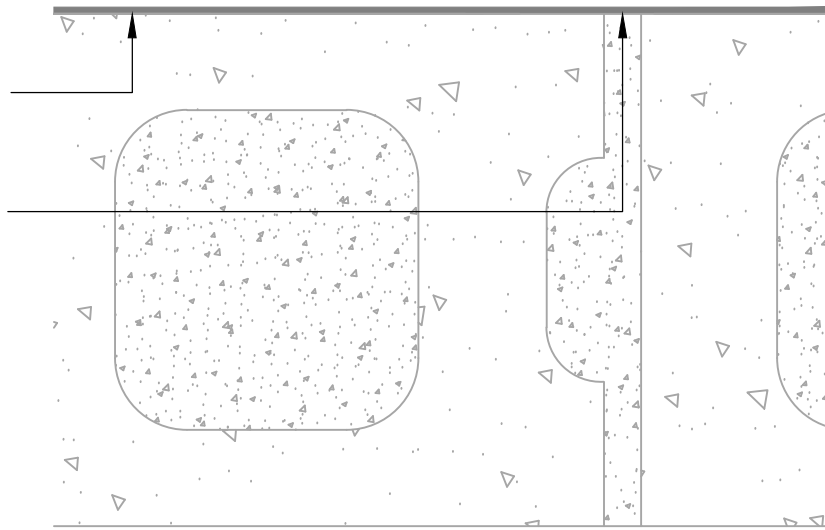
HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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4. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. STRIKE CMU JOINTS FULL AND FLUSH TO CREATE A CONTINUOUS SUBSTRATE. PARTIAL OR SOLID GROUT CMU PRIOR TO WRB INSTALLATION AS SPECIFIED. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR CURE TIME PRIOR TO WRB INSTALLATION.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
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8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
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BLUESKIN VP100

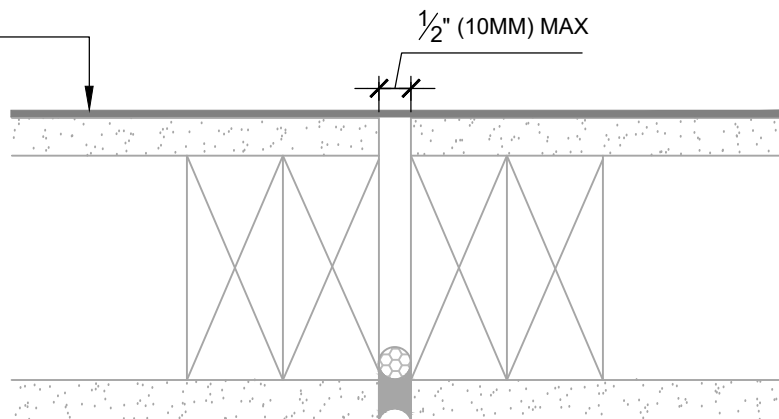
STRIKE MORTAR
FULL AND FLUSH
WITH FACE OF
BLOCK
(SEE NOTE #4)



CMU MORTAR JOINTS (PLAN VIEW)

STRIKE MORTAR FULL AND FLUSH

BLUESKIN VP100



GAPS UP TO 1/2"(10MM) MAX (PLAN VIEW)

FLASHING INSTALLED BEFORE WRB

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER NON-MOVING JOINTS

CMU MORTAR JOINTS AND
SUBSTRATE GAPS UP TO 1/2" (10MM) WIDE MAXIMUM

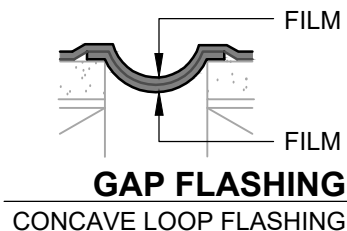
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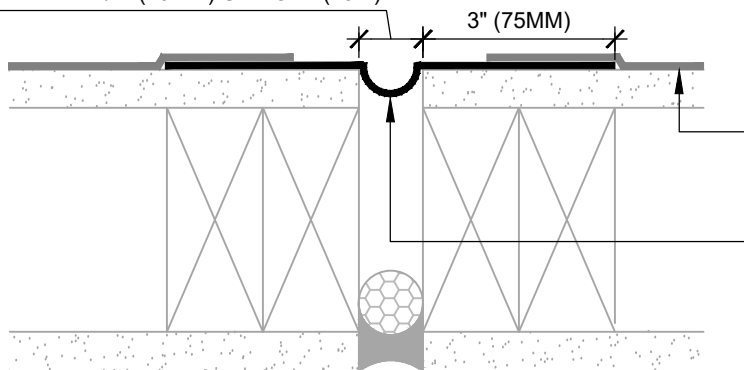
PAGE 1 OF 1

VPWRB-8A

CREATE CONCAVE LOOP IN MEMBRANE BY LOOPING INTO GAP. PRIOR TO INSTALLATION, ADHERE MEMBRANE TO ITSELF AND INSTALL TO PREVENT ADHESION TO SURFACES WITHIN GAP.



GREATER THAN 1/2" (10MM) UP TO 1" (25M)



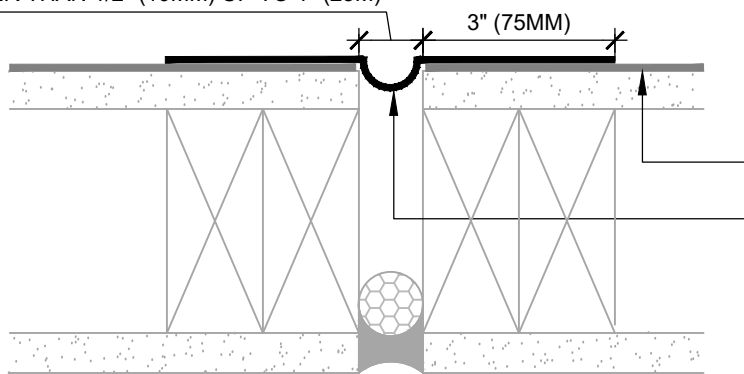
BLUESKIN VP100
LAP WRB 2" (50MM)
ONTO FLASHING

HENRY SELF-ADHERED
FLASHING
(SEE GAP FLASHING
DETAIL)

FLASHING INSTALLED BEFORE WRB

PLAN VIEW

GREATER THAN 1/2" (10MM) UP TO 1" (25M)



BLUESKIN VP100

HENRY SELF-ADHERED
FLASHING
(SEE GAP FLASHING
DETAIL)

FLASHING INSTALLED AFTER WRB

PLAN VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. CLADDING, INSULATION, AND OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
9. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER NON-MOVING JOINTS

SUBSTRATE GAPS GREATER THAN 1/2" (10MM) UP TO 1" (25MM)
SELF-ADHERED FLASHING

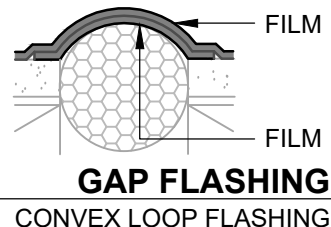
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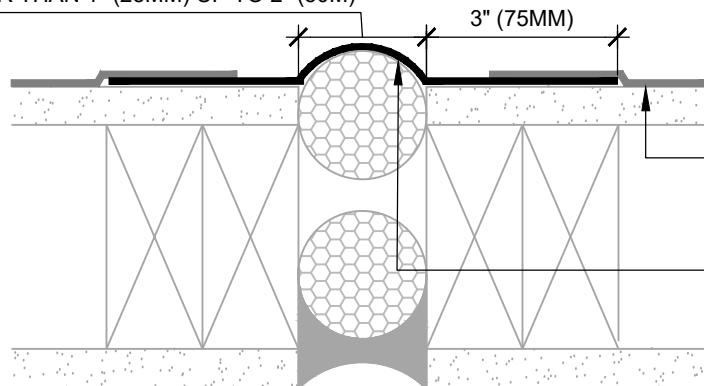
PAGE 1 OF 1

VPWRB-8B

CREATE CONVEX LOOP IN MEMBRANE BY LOOPING INTO GAP. PRIOR TO INSTALLATION, ADHERE MEMBRANE TO ITSELF AND INSTALL TO PREVENT ADHESION TO BACKER ROD.



GREATER THAN 1" (25MM) UP TO 2" (50M)



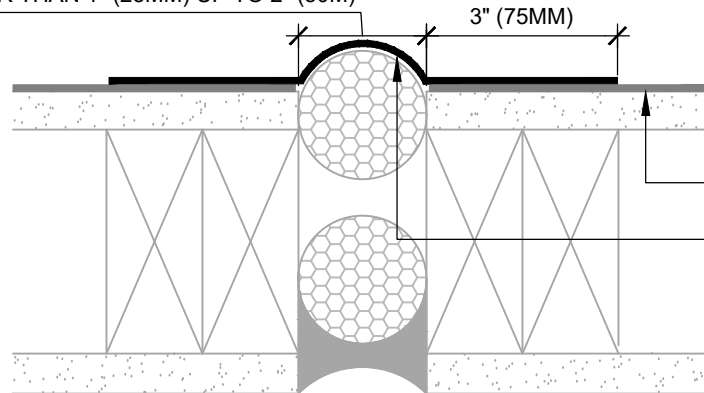
BLUESKIN VP100
LAP WRB 2" (50MM)
ONTO FLASHING

HENRY SELF-ADHERED
FLASHING
(SEE GAP FLASHING
DETAIL)

FLASHING INSTALLED BEFORE WRB

PLAN VIEW

GREATER THAN 1" (25MM) UP TO 2" (50M)



BLUESKIN VP100

HENRY SELF-ADHERED
FLASHING
(SEE GAP FLASHING
DETAIL)

FLASHING INSTALLED AFTER WRB

PLAN VIEW



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER NON-MOVING JOINTS

**SUBSTRATE GAPS UP TO 2" (50MM) WIDE MAXIMUM
SELF-ADHERED FLASHING**

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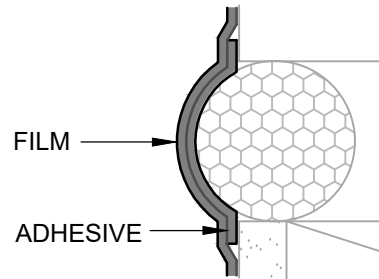
PAGE 1 OF 1

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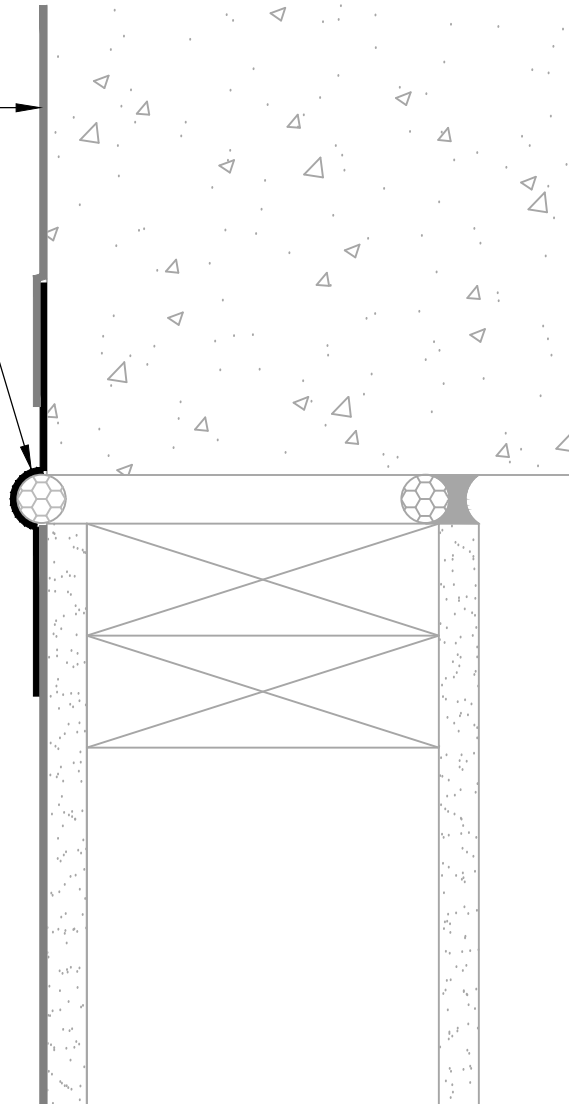
BLUESKIN VP100
LAP WRB 2" (50MM)
ONTO FLASHING

HENRY SELF-ADHERED
FLASHING
(SEE GAP FLASHING DETAIL)

CREATE CONVEX LOOP IN
MEMBRANE OVER BACKER ROD.
PRIOR TO INSTALLATION,
ADHERE MEMBRANE TO ITSELF
AND INSTALL TO PREVENT
ADHESION TO BACKER ROD.



GAP FLASHING
CONVEX LOOP FLASHING



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

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BLUESKIN VP100 SELF-ADHERED AIR BARRIER DEFLECTION JOINT

HORIZONTAL DEFLECTION JOINT SELF-ADHERED FLASHING

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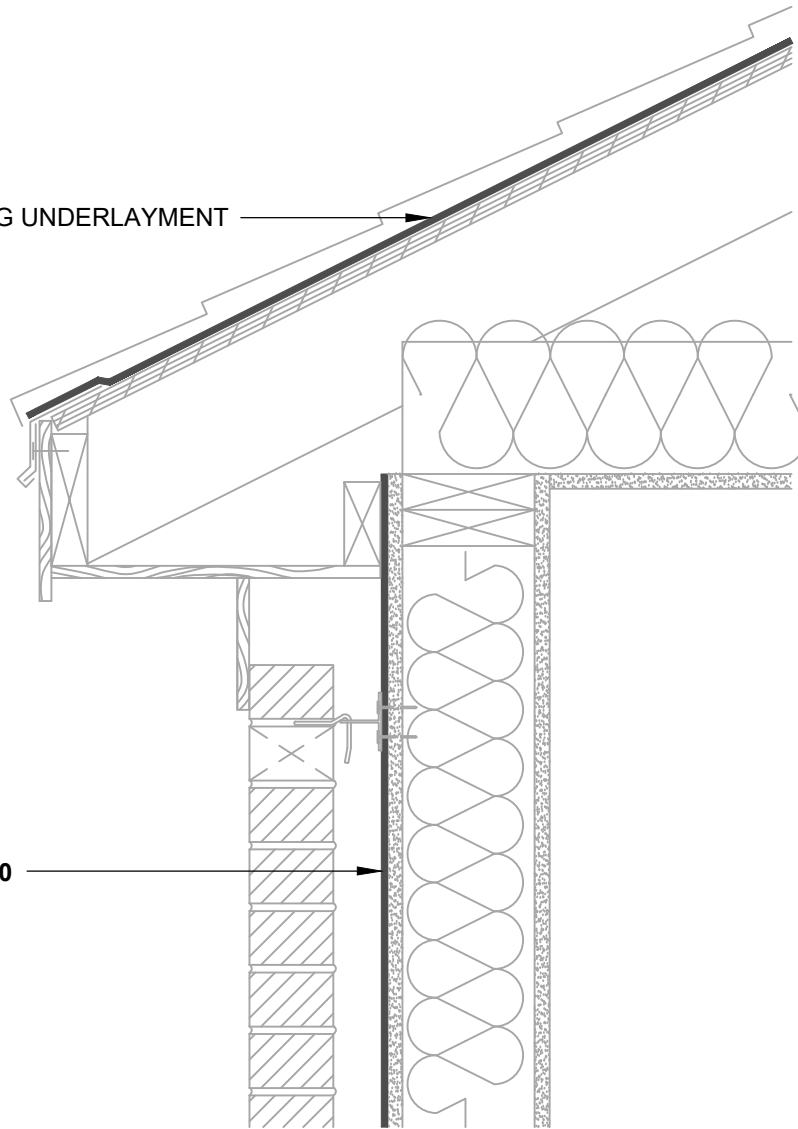
HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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HENRY ROOFING UNDERLAYMENT
AS SPECIFIED

BLUESKIN VP100



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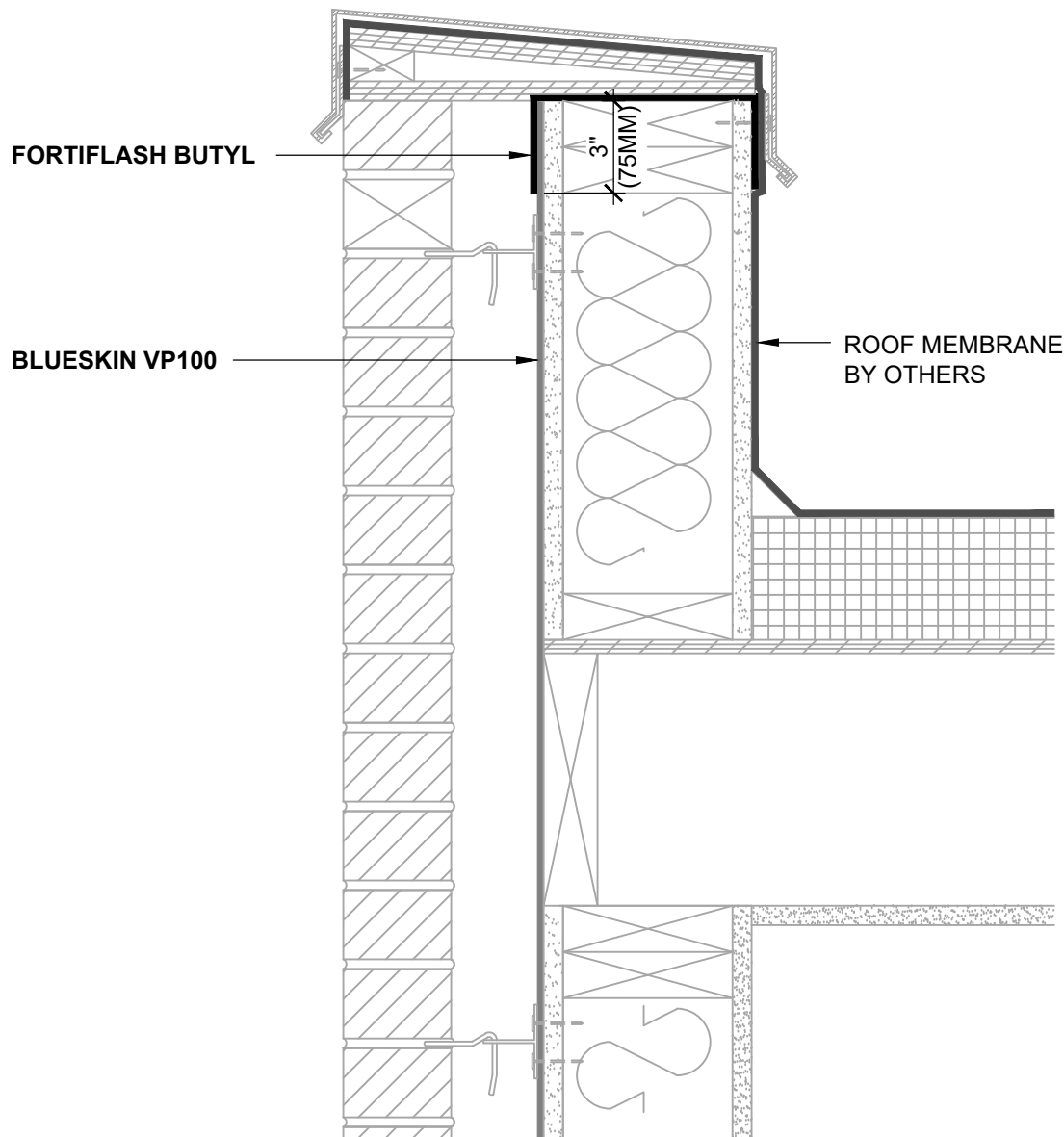
BLUESKIN VP100 SELF-ADHERED AIR BARRIER SLOPED ROOF TRANSITION BLUESKIN VP100 AND HENRY ROOFING UNDERLAYMENT TOP OF WALL CONNECTION AT A SLOPED ROOF

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HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

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2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
9. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

Henry
A CARULISLE COMPANY

999 N. Pacific Coast Highway, Suite 800
El Segundo, CA 90245
800-486-1278 • www.henry.com

BLUESKIN VP100 SELF-ADHERED AIR BARRIER PARAPET TRANSITION

**BLUESKIN VP100 INSTALLED ON FRONT OF WALL
AND ROOFING ASSEMBLY INSTALLED ON BACK OF WALL**

MANUFACTURER INSTALLATION GUIDELINES ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION. DETAILS ARE NOT TO SCALE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRODUCT INFORMATION, RECOMMENDED AUXILIARY COMPONENTS AND INSTALLATION INSTRUCTIONS.

04-18-2022

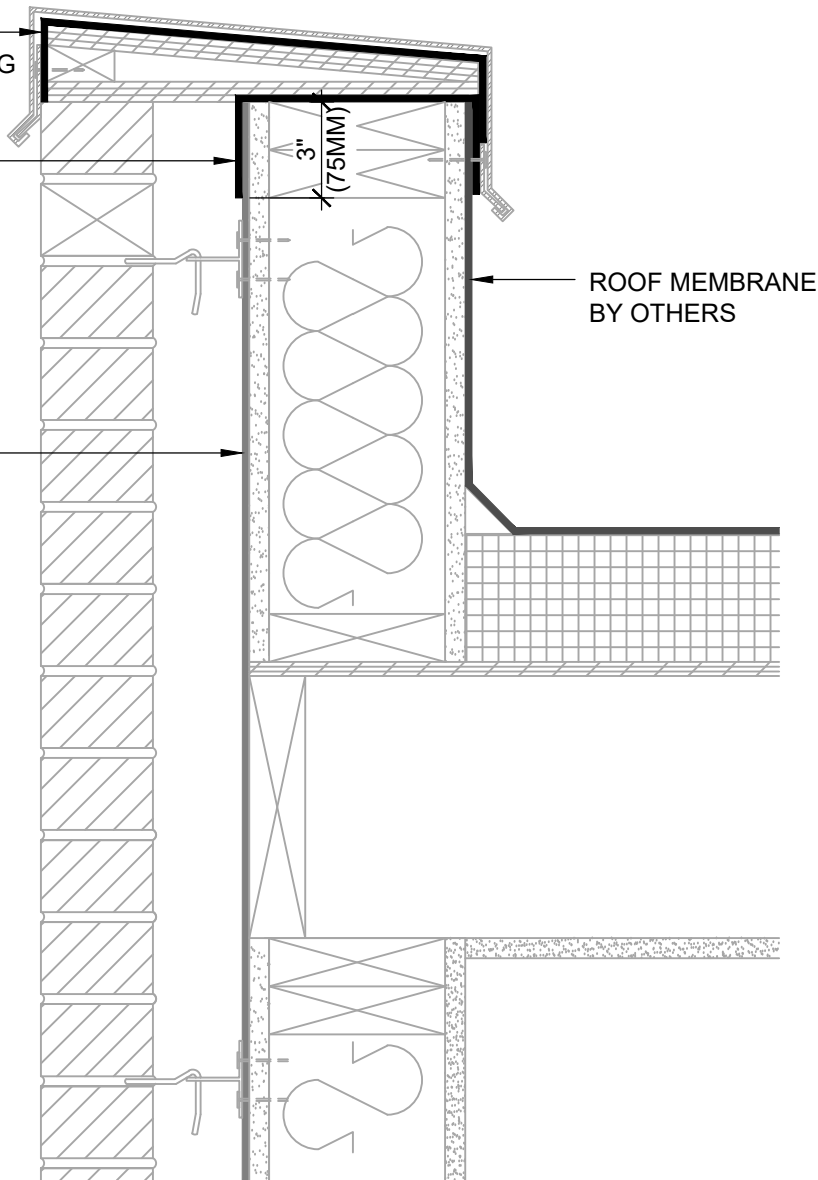
PAGE 1 OF 1

VPWRB-9B

HENRY HIGH
TEMPERATURE ROOFING
UNDERLAYMENT

FORTIFLASH BUTYL

BLUESKIN VP100



ROOF MEMBRANE
BY OTHERS



HENRY 1-2-3 MOISTURE CONTROL SYSTEM WEATHER-RESISTIVE BARRIER (WRB) INSTALLATION GUIDELINES

NOTES

1. VISIT WWW.HENRY.COM/WARRANTY FOR ELIGIBILITY REQUIREMENTS OF THE 15-YEAR RESIDENTIAL AND LIGHT COMMERCIAL HENRY 1-2-3 MOISTURE CONTROL SYSTEM WARRANTY.
2. HENRY OFFERS **BLUESKIN VP100** IN THE UNITED STATES AND CANADA. PRODUCT AVAILABILITY AND WARRANTY OPTIONS MAY VARY BY LOCATION. REFER TO THE HENRY **BLUESKIN VP100** GUIDE SPECIFICATION FOR RECOMMENDED FLASHINGS, SEALANTS, AND SYSTEM INFORMATION.
3. SEE PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR ROLL SIZES, MAXIMUM UV EXPOSURE, COMPATIBILITY CONCERNS, APPLICATION TEMPERATURES AND SERVICE TEMPERATURE LIMITATIONS.
4. OPTIONAL INTERIOR VAPOR BARRIER NOT SHOWN FOR CLARITY. REFER TO LOCAL CODE ORDINANCES FOR INSULATION AND VAPOR BARRIER REQUIREMENTS.
5. SUBSTRATES MUST BE CLEAN AND DRY.
6. SELF-ADHERED MEMBRANES MAY REQUIRE A PRIMER FOR OPTIMAL ADHESION TO SOME SURFACES AND/OR SUBSTRATE TEMPERATURES. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRIMER REQUIREMENTS.
7. ROLL SELF-ADHERED MEMBRANES TO OBTAIN CONTINUOUS ADHESION.
8. VERIFY WEATHER-RESISTIVE BARRIER IS FREE FROM PROTRUSIONS OR DAMAGE PRIOR TO CLADDING INSTALLATION.
9. CONTACT HENRY AT 800-773-4777 FOR TECHNICAL ASSISTANCE.

Henry
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999 N. Pacific Coast Highway, Suite 800
El Segundo, CA 90245
800-486-1278 • www.henry.com

BLUESKIN VP100 SELF-ADHERED AIR BARRIER PARAPET TRANSITION

BLUESKIN VP100 INSTALLED ON FRONT OF WALL
AND BLUESKIN VP100 INSTALLED ON BACK OF WALL

MANUFACTURER INSTALLATION GUIDELINES ARE FOR REFERENCE ONLY. HENRY DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR DEVIATIONS IN DESIGN OR ENGINEERING. PROJECT SPECIFIC VERIFICATION IS RECOMMENDED PRIOR TO INSTALLATION. DETAILS ARE NOT TO SCALE. REFER TO PRODUCT SPECIFIC TECHNICAL DATA SHEET FOR PRODUCT INFORMATION, RECOMMENDED AUXILIARY COMPONENTS AND INSTALLATION INSTRUCTIONS.

04-18-2022

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VPWRB-9C

Warranty

Residential and Light Commercial Henry® 1-2-3 Moisture Control System™ Warranty

This system is expressly warranted for a period of fifteen (15) years from purchase that it will perform to Henry Company LLC (and its subsidiaries and affiliates, hereinafter collectively “Henry”) published specifications when installed according to Henry installation procedures and accepted industry standards or following installation details prepared by a properly licensed design professional. In the event of a warranty claim, Henry will pay the cost of materials and labor to correct leaks that result solely from the failure of Henry product as expressly warranted above.

The installed system must include one of each of the following three items:

1. A Weather resistive barrier (Blueskin® VP 100, WeatherSmart®, WeatherSmart Drainable, WeatherSmart D, WeatherSmart Commercial, Hydro Tex®, Super Jumbo Tex®, or Jumbo Tex brands)
2. Flashing (FortiFlash®, FortiFlash Butyl, FortiFlash 365, FortiFlex® Butyl, Moistop neXT®, Moistop PF®, Moistop EZ Seal®, Blueskin® Butyl Flash or Air-Bloc LF®)
3. Sealant (Moistop® Sealant)

When the complete system is used with all of the above components, any of the following accessories used (Moistop® Corner Shields, WeatherSmart® Rainscreen, Aquatac® Primer, Sheathing Tape) will also be covered by this warranty.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, HENRY DISCLAIMS ALL OTHER WARRANTIES, GUARANTEES, CONDITIONS AND REPRESENTATIONS, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING BUT NOT LIMITED TO ANY IMPLIED CONDITIONS OR WARRANTIES AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY SHALL BE THE OWNER’S SOLE AND EXCLUSIVE REMEDY AGAINST HENRY AND UNDER NO CIRCUMSTANCES SHALL HENRY BE LIABLE FOR (1) ANY DAMAGES BASED ON ANY LEGAL THEORY OF LIABILITY OTHER THAN THE EXCLUSIVE LIABILITY SET FORTH IN THIS WARRANTY OR (2) ANY DIRECT, INDIRECT, CONSEQUENTIAL, EXEMPLARY, SPECIAL, INCIDENTAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, LOSS OF USE, OR DAMAGE TO THE BUILDING OR ITS CONTENTS.

IF ANY TERM OR CONDITION OF THIS WARRANTY IS LIMITED BY APPLICABLE LAW, THEN SUCH TERM OR CONDITION IS DEEMED SEVERED TO THE EXTENT SO LIMITED.

Warranty claims must be made in writing to Henry by email at warranty@henry.com no later than thirty (30) days after a potential claim covered under this warranty is or should by reasonable diligence have been discovered. Failure to give such notice within the time stated herein shall relieve Henry of all liability and any obligation to repair any leak otherwise covered by this warranty.

If the installation or use of these products do not qualify for this fifteen (15) year warranty, Henry’s standard product warranty will apply.

Henry Standard Product Warranty Information

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product – such as weather, workmanship, equipment utilized, and prior condition of the substrate – are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-months of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO ONE, INCLUDING THE MANUFACTURER, SHALL HAVE ANY LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR NEGLIGENCE OR FOR DIRECT, CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES, RESULTING FROM ANY MISUSE, DEFECTS OR DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. IF PURCHASER DOES NOT ACCEPT THESE TERMS, PURCHASER MAY RETURN WITHIN 30-DAYS OF PURCHASE ALL UNOPENED CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND. RETENTION OF PRODUCT BEYOND 30-DAYS, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF THESE TERMS, CONDITIONS, AND DISCLAIMERS. THIS LIMITED WARRANTY AND LIABILITY DISCLAIMER PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANYTHING RELATING TO THE PRODUCT.

To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied warranties is limited to the duration of Henry's express warranty.

This warranty language supersedes any language including product labels, sell sheets and/or technical documents.

For additional information on Henry's warranty programs, including Henry's standard product warranty, visit <https://us.henry.com/warranty>



ICC-ES Evaluation Report

ESR-2975

Reissued May 2022

This report is subject to renewal May 2023.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 25 00—Water-Resistive Barriers/Weather Barriers
Section: 07 27 00—Air Barriers

REPORT HOLDER:

HENRY COMPANY

EVALUATION SUBJECT:

HENRY BLUESKIN® VP100 AND BLUESKIN® VP160 SELF-ADHERED MEMBRANES

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2021, 2018, 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2021, 2018, 2015, 2012, 2009 and 2006 *International Energy Conservation Code*® (IECC)
- 2013 *Abu Dhabi International Building Code* (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Water resistance
- Air leakage
- Surface-burning characteristics

1.2 Evaluation to the following green code(s) and/or standards:

- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2018, 2015 and 2012 *International Green Construction Code*® (IgCC)
- 2017, 2014 and 2011 ANSI/ASHRAE/USGBC/IES Standard 189.1—Standard for the Design of High-Performance Green Buildings, Except Low-Rise Residential Buildings
- 2020, 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

See Section 2.0

2.0 USES

Henry BLUESKIN® VP100 and BLUESKIN® VP160 self-adhered membranes are used as water-resistive barriers on the exterior side of exterior walls of buildings of any construction type under the IBC and construction permitted under the IRC. Under the 2021, 2018, 2015 and 2012 IBC, BLUESKIN® VP100 and BLUESKIN® VP160 may be used on buildings of Type I, II, III and IV construction that are not greater than 40 feet (12.2 m) in height above grade in accordance with 2021 and 2018 IBC Section 1402.5 (2015 and 2012 IBC Section 1403.5), except as permitted in Exception 1 of Section 1402.5 of the 2021 and 2018 IBC (Section 1403.5 of the 2015 IBC).

The membranes have a water resistance greater than that of a 60-minute Grade D paper, which is permitted in Section 2510.6 of the 2021 IBC (the exception to Section 2510.6 of the 2012, 2009 and 2006 IBC) and Section R703.7.3 of the 2021, 2018 and 2015 IRC (2012, 2009 and 2006 Section R703.6.3 of the IRC). The membranes may be used as an air barrier material under IRC Section N1102.4.1 and 2021, 2018 and 2015 IECC Sections C402.5 and R402.4 [2012 IECC Sections C402.4 and R402.4 (2009 and 2006 IECC Sections 402.4 and 502.4)].

The attributes of the self-adhered membranes have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2012 and 2015 IgCC Section 605.1.2.1 for air barriers; (iii) 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (v) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vi) ICC 700-2008 Section 602.9 for water-resistive barriers. Note that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.0 DESCRIPTION

3.1 General:

Henry BLUESKIN® VP100 and BLUESKIN® VP160 membranes are comprised of an engineered polymeric-

based sheet, bonded with a permeable adhesive layer, and a split-back poly-release film on the adhesive side.

3.2 Henry **BLUESKIN® VP100** and **BLUESKIN VP160 Self-adhered Membranes:**

The membranes have a flame-spread index of 25 or less and a smoke-developed index of 450 or less, when tested in accordance of ASTM E84.

The Henry **BLUESKIN® VP100** membrane has a nominal thickness of 0.019 inch (0.457 mm) and the Henry **BLUESKIN® VP160** membrane has a nominal thickness of 0.023 inch (0.584 mm). Both Henry **BLUESKIN® VP100** and **BLUESKIN® VP160** membranes are produced in rolls of varying lengths and widths.

The membranes have an air leakage rate not exceeding 0.02 L/s-m² at 75 Pa [0.004 cfm/ft² at 0.3 w.g. (1.57 psf)].

4.0 INSTALLATION

4.1 General:

Installation of Henry **BLUESKIN® VP100** and **BLUESKIN® VP160** membranes must comply with this report and the report holder's published installation instructions. The report holder's published installation instructions must be available at the jobsite at all times during the installation.

Prior to installation of the membranes, the substrate surface must be sound, dry, clean, and free of oil, grease, dirt, excess mortar, loose nails and other protrusions, and other contaminants that would be detrimental to adhesion of the membranes. Installation is limited to plywood, OSB, aluminum and Georgia Pacific DensGlass sheathing substrates. Henry **BLUESKIN® VP100** and **BLUESKIN® VP160** membrane must be installed only when the ambient air and substrate temperature is at least 20°F (-7°C). When the ambient air or substrate temperature is below 40°F (5°C), the substrate must be prepared according to the report holder's published installation instructions.

4.2 Water-resistive Barrier:

When installed as a water-resistive barrier, the membrane must be installed over the exterior face of the exterior wall sheathings that are attached to wall framing, and must be installed in a consecutive weather board manner. The membrane roll must be placed at the starting wall corner, and is then unrolled around the building. A minimum of 3 inches (76 mm) of overlap is provided for vertical seams and a minimum of 2 inches (51 mm) for horizontal seams, except where the report holder's installation instructions specify a greater overlapping dimension. When use is over wood-based sheathing in exterior plaster applications, the installation must be in accordance with 2012, 2009 and 2006 IBC Section 2510.6 or 2018 and 2015 IRC Section R703.7.3 [2012, 2009 and 2006 IRC Section R703.6.3].

When used over wood based sheathing in exterior plaster applications in accordance with 2021 IBC Section 2510.6 and 2021 IRC Section R703.7.3 installations must be as follows:

- For dry climate zones (B) in accordance with 2021 IBC Section 2510.6.1 or 2021 IRC Section R703.7.3.1, for the product must be applied in accordance with 2021 IBC Section 2510.6.1 Item 1 or 2 and 2021 IRC Section R703.7.3.1 Item 1 or 2, as applicable.
- For moist climate zones (A) or marine climate zones (C) in accordance with 2021 IBC Section 2510.6.2 or 2021 IRC Section R703.7.3.2, the product must be applied in accordance the dry climate zone (B) provisions noted above and with the additional requirements noted in 2021 IBC

Section 2510.6.2 Item 1 or 2021 IRC Section R703.7.3.2 Item 1, as applicable.

For cementitious coatings or exterior insulation and finish systems, installation of the membrane must be in accordance with a current ICC-ES evaluation report on the exterior coating.

4.3 Air Barrier:

When used as an air barrier under IRC Section N1102.4.1 and 2021, 2018 and 2015 IECC Section C402.5 and R402.4 [2012 IECC Section C402.4 and R402.4 (2009 and 2006 IECC Section 402.4 or 502.4)], the membrane must be installed in accordance with the report holder's published installation instructions and this report.

5.0 CONDITIONS OF USE

Henry **BLUESKIN® VP100** and **BLUESKIN® VP160** self-adhered membranes described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The membranes must be installed in accordance with the report holder's published installation instructions, the requirements of the applicable code, and this report. In the event of a conflict between this report and the report holder's published installation instructions, this report governs.
- 5.2 The membranes must be covered by an exterior wall covering complying with the requirements of the applicable code.
- 5.3 This evaluation report provides air leakage rates for the described membranes as an air barrier material only. The design and evaluation of the air barrier assembly, of which the self-adhered membranes are a component, are outside the scope of this report.

6.0 EVIDENCE SUBMITTED

- 6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated August 2016 (editorially revised July 2021).
- 6.2 Reports of tests for surface burning characteristics in accordance with ASTM E84.
- 6.3 Reports of air leakage tests in accordance with ASTM E2178.

7.0 IDENTIFICATION

- 7.1 Product labeling shall include, the name of the report holder or listee, and the ICC-ES mark of conformity. The listing or evaluation report number (ICC-ES ESR-2975) may be used in lieu of the mark of conformity. Henry **BLUESKIN® VP100** and **BLUESKIN® VP160** membranes described in this evaluation report must be identified by a label on the container of each roll of the membrane, and by printing at regular intervals on the membrane, that includes the name, address and telephone number of the manufacturer (Henry Company), and the evaluation report number (ESR-2975).
- 7.2 The report holder's contact information is the following:

HENRY COMPANY
999 NORTH SEPULVEDA BOULEVARD, SUITE 800
EL SEGUNDO, CALIFORNIA 90245
(310) 955-9200
cshenry@henry.com
www.henry.com

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-Resistive Barriers/Weather Barriers

Section: 07 27 00—Air Barriers

REPORT HOLDER:

HENRY COMPANY

EVALUATION SUBJECT:

HENRY BLUESKIN® VP100 AND BLUESKIN® VP160 SELF-ADHERED MEMBRANES

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Henry BLUESKIN® VP100 and BLUESKIN® VP160 self-adhered membranes, described in ICC-ES evaluation report ESR-2975, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2019 California Building Code (CBC)

For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.

- 2019 California Residential Code (CRC)
- 2019 California Energy Code (CEC)

2.0 CONCLUSIONS

2.1 CBC:

The Henry BLUESKIN® VP100 and BLUESKIN® VP160 self-adhered membranes, described in Sections 2.0 through 7.0 of the evaluation report ESR-2975, comply with CBC Chapter 14, provided the design and installation are in accordance with the 2018 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-2975. Use as an air barrier must be in accordance with the CEC.

2.1.1 OSHPD:

The applicable OSHPD Sections and Chapters of the CBC are beyond the scope of this supplement.

2.1.2 DSA:

The applicable DSA Sections and Chapters of the CBC are beyond the scope of this supplement.

2.2 CRC:

The Henry BLUESKIN® VP100 and BLUESKIN® VP160 self-adhered membranes, described in Sections 2.0 through 7.0 of the evaluation report ESR-2975, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2018 *International Residential Code*® (IRC) provisions noted in the evaluation report ESR-2975 and the applicable provisions of the CRC. Use as an air barrier must be in accordance with the CEC.

This supplement expires concurrently with the evaluation report, reissued May 2022.

LEED INFORMATION

PRODUCT: **Blueskin VP 160**
 Blueskin VP 100

MR - CREDIT 4.x – RECYCLED CONTENT
RECYCLED CONTENT (POST-CONSUMER): **0%**
RECYCLED CONTENT (POST-INDUSTRIAL): **0%**

MR - CREDIT 5.x – REGIONAL MATERIALS
EXTRACTION SITE: **Raw materials are sourced to Henry from various North American sources and extraction site of raw materials may vary without notice. As a result, the extraction site of materials used to manufacture this product is undetermined.**

MANUFACTURING SITE: **Kimberton PA 19442**

MR- CREDIT 6 AND 7 – RAPIDLY RENEWABLE MATERIALS AND CERTIFIED WOOD
This product does not contain rapidly renewable materials or certified wood

* IEQ – CREDIT 4.1 – ADHESIVES AND SEALANTS
Product not applicable to this credit.

* IEQI – CREDIT 4.2 – PAINTS AND COATINGS
Product not applicable to this credit.

VOC Content 0 g/l

LEED INFORMATION

PRODUCT: Blueskin Weather Barrier

MR - CREDIT 4.x- RECYCLED CONTENT

RECYCLED CONTENT (POST-CONSUMER): 0%

RECYCLED CONTENT (POST-INDUSTRIAL): 0%

MR - CREDIT 5.x – REGIONAL MATERIALS

EXTRACTION SITE: Raw materials are sourced to Henry from various North American sources and extraction site of raw materials may vary without notice. As a result, the extraction site of materials used to manufacture this product is undetermined.

MANUFACTURING SITE: Petrolia, Ont, Canada, N0N1R0

MR- CREDIT 6 AND 7 – RAPIDLY RENEWABLE MATERIALS AND CERTIFIED WOOD

This product does not contain rapidly renewable materials or certified wood

* IEQ – CREDIT 4.1 – ADHESIVES AND SEALANTS

Product not applicable to this credit.

* IEQ – CREDIT 4.2 – PAINTS AND COATINGS

Product not applicable to this credit.

VOC Content 0 g/L

FINANCIAL ASSISTANCE AWARD**FEDERAL AWARD ID NUMBER**

60NANB23D159

RECIPIENT NAME

Burlington School District

PERIOD OF PERFORMANCE

09/01/2023 - 08/31/2026

STREET ADDRESS

150 Colchester Ave

FEDERAL SHARE OF COST

\$9,900,000.00

CITY, STATE ZIP

Burlington, VT 05401-1422

RECIPIENT SHARE-OF COST

\$0.00

AUTHORITY

Consolidated Appropriations Act, 2022

TOTAL ESTIMATED COST

\$9,900,000.00

CFDA NO. AND NAME

11.617 Congressionally-Identified Projects

PROJECT TITLE:

Burlington Aviation Technology Center Facility

This Award Document (Form CD-450) signed by the Grants Officer constitutes an obligation of Federal funding. By signing this Form CD-450, the Recipient agrees to comply with the Award provisions checked below and attached. Upon acceptance by the Recipient, the Form CD-450 must be signed by an authorized representative of the Recipient and returned to the Grants Officer. If not signed and returned without modifications by the Recipient within 30 days of receipt, the Grants Officer may unilaterally withdraw this Award offer and de-obligate the funds.

☒ DEPARTMENT OF COMMERCE FINANCIAL ASSISTANCE STANDARD TERMS AND CONDITIONS

R & D AWARD

FEDERAL-WIDE RESEARCH TERMS AND CONDITIONS, AS ADOPTED BY THE DEPT. OF COMMERCE

☒ SPECIFIC AWARD CONDITIONS

☒ LINE ITEM BUDGET

☒ 2 CFR PART 200, UNIFORM ADMINISTRATIVE REQUIREMENTS, COST PRINCIPLES, AND AUDIT REQUIREMENTS, AS ADOPTED PURSUANT TO 2 CFR § 1327.101

48 CFR PART 31, CONTRACT COST PRINCIPLES AND PROCEDURES

MULTI-YEAR AWARD. PLEASE SEE THE MULTI-YEAR SPECIFIC AWARD CONDITION.

☒ OTHER(S): U.S. DEPARTMENT OF COMMERCE, NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
STANDARD TERMS AND CONDITIONS FOR EXTRAMURAL CONSTRUCTION PROJECTS, MAY 11, 2023

SIGNATURE OF DEPARTMENT OF COMMERCE GRANTS OFFICER

SHIOU YUN LIU

Digitally signed by SHIOU YUN
LIU
Date: 2023.09.15 08:23:32 -04'00'

Shiou Liu

DATE

PRINTED NAME, PRINTED TITLE, AND SIGNATURE OF AUTHORIZED RECIPIENT OFFICIAL

Tom Flanagan, Superintendent



DATE

9/18/23

Award Number: 60NANB23D159, Amendment Number 0

Federal Program Officer: Robert Slocum

Requisition Number: 195161

Employer Identification Number: 471351664

UEI Number: VCCSKXGSMEJ5

Recipient ID: 1155128

Requestor ID: 1155128

Award ACCS Information

Bureau	FCFY	Project-Task	Organization	Object Class	Obligation Amount
57	2023	1959000-000	10-19-0195-00-00-00-00	41-98-00-00	\$9,900,000.00

Award Contact Information

Contact Type	Contact Name	Email	Phone
Administrative	Mr. Barry Gruessner	bgruessn@bsdvt.org	8028648462

NIST Grants Officer:

Shiou Liu
100 Bureau Drive, MS 1650
Gaithersburg, MD 20899-1650
(301) 975-8245

NIST Grants Specialist:

LaShae Green
100 Bureau Drive, MS 1650
Gaithersburg, MD 20899-1650
(301) 975-3070

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
2022 CONGRESSIONALLY IDENTIFIED CONSTRUCTION GRANT PROGRAM
FINANCIAL ASSISTANCE
SPECIFIC AWARD CONDITIONS**

1. Description of Work:

The National Institute of Standards and Technology (NIST) hereby enters into this grant number 60NANB23D159 with Burlington School District to support the work described in the proposal entitled “Burlington Aviation Technology Center Facility” dated November 17, 2022, and any revisions received during the application review, which are hereby incorporated into this award by reference.

The scope of work for this project is anticipated to provide a total building space in the range of 30,000 to 45,000 gross SF to include classrooms, offices, shops/tech areas, storage, hangar space and general building facilities with the intent to educate up to 150 high school students and adults each year with the technical center housing aviation for 11th and 12th graders as well as adult programs that finishes the airframe and powerplant training.

Work will be completed in accordance with the schedule submitted by Burlington School District in the Project Management and Schedule dated November 17, 2022.

The Burlington School District shall diligently pursue the development of the project to ensure completion within this time schedule and shall promptly notify NIST in writing of any event that could substantially delay meeting any of the prescribed time limits for the project as set forth above. The Burlington School District further acknowledges that failure to meet the development time schedule may result in NIST taking action to suspend or terminate the Award in accordance with the regulations set forth at 2 CFR § 200.339.

Where the terms of this award and the proposal differ, the terms of this award shall prevail.

2. Recipient Contact Information:

Administrative:

Barry Gruessner
Grants Director
Burlington School District
150 Colchester Avenue
Burlington, VT 05401-1422
Telephone: 802-864-8462
Email: bgruessn@bsdvt.org

NIST Financial Assistance Award Number: 60NANB23D159

Amendment: NEW

Recipient: Burlington School District

Authorized Representative:

Tom Flanagan
Superintendent
Burlington School District
150 Colchester Avenue
Burlington, VT 05401-1422
Telephone: 802-865-5332
Email: tflanagan@bsdvt.org

3. NIST Award Contact Information:

Grants Officer:

Michelle Shiouyun Liu
National Institute of Standards and Technology
100 Bureau Drive, Mail Stop 1650
Gaithersburg, MD 20899-1650
Telephone: 301-975-8245
Email: shiouyun.liu@nist.gov

Grants Specialist:

LaShae Green
National Institute of Standards and Technology
100 Bureau Drive, Mail Stop 1650
Gaithersburg, MD 20899-1650
Telephone: 301-975-3070
Email: lashae.green@nist.gov

Federal Program Officer:

Robert Slocum
National Institute of Standards and Technology
100 Bureau Drive
Gaithersburg, MD 20899
Email: robert.slocum@nist.gov

4. Award Payments:

This award is hereby funded through advanced payments using the Department of Treasury's Automated Standard Application for Payments (ASAP) system. Payments will be issued in accordance with 2 CFR § 200.305 and the Department of Commerce Financial Assistance Standard Terms and Conditions, B.02, dated November 12, 2020.

Payments for allowable costs may be drawn down as needed by the Recipient enrolled in ASAP. Funds may be requested through ASAP by the authorized *Payment Requestor* who is the individual designated by the Recipient to access Federal funds.

NIST Financial Assistance Award Number: 60NANB23D159

Amendment: NEW

Recipient: Burlington School District

This award has the following control or withdrawal limits set in ASAP:

- ☐ None
- ☐ Agency Review required for all withdrawals (see explanation below)
- ☐ Agency Review required for all withdrawal requests over
\$ _____ (see explanation below)
- ☒ Maximum Draw Amount controls (see explanation below)
 - \$ _____ each month
 - \$ _____ each quarter
 - \$0.00 _____ Max drawdown amount

Explanation:

Environmental & Historic Compliance Requirements

A total of \$9,900,000.00 in Federal funding is hereby withheld until the requirements identified in Specific Award Condition (SAC) #17 Environmental and Historic Review is satisfied. A Six-Month Expenditure Plan may be submitted to request funding for expenditures limited to Environmental and Historic Requirement compliance as identified in SAC #17.

In addition, the final site selection for the Burlington Aviation Technology Center Facility must be provided to NIST and approved by NIST prior to advertisement of construction. All federal funding is hereby withheld until this requirement is satisfied, as identified in SAC #19 Final Site Selection, below.

5. Return Payments for Funds Withdrawn through ASAP:

Funds that have been withdrawn through ASAP may be returned to ASAP via the Automated Clearing House (ACH) or via FEDWIRE. The ACH or FEDWIRE transaction may only be completed by the Recipient's financial institution. Full or partial amounts of payments received by a Payment Requestor/Recipient Organization may be returned to ASAP. All funds returned to the ASAP system will be credited to the ASAP Suspense Account. The Suspense Account allows the Regional Financial Center to monitor returned items and ensure that funds are properly credited to the correct ASAP account. Returned funds that cannot be identified and classified to an ASAP account will be dishonored and returned to the originating depository financial institution (ODFI). The Payment Requestor/Recipient Organization should notify the NIST Grants Office and provide a reason whenever return payments are made.

It is essential that the Payment Requestor/Recipient Organization provide its financial institution with ASAP account information (ALC, Recipient ID and Account ID) to which the return is to be credited. Additional detailed information is accessible at:
<https://www.fiscal.treasury.gov/asap/>.

6. Period of Performance and Funding Limitations:

NIST Financial Assistance Award Number: 60NANB23D159
Amendment: NEW
Recipient: Burlington School District

The period of performance and budget incorporated into this award cover a 3-year period of performance and provide for a maximum total amount of \$9,900,000.00 in Federal funding. This award is being fully funded via this award action.

The maximum amount of NIST funding in support of this award will not exceed the amount specified in the award documents, unless otherwise amended in writing by the NIST Grants Officer. The Department of Commerce is not liable for any obligations, expenditures, or commitments which involve any amount in excess of the Federal funds being made available pursuant to this award.

7. Request for Application - 2022 Congressionally Identified Construction Grant Program:

The Department of Commerce, National Institute of Standards and Technology Request for Application (RFA) No. 2022-NIST-RFA-CICGP-01, dated October 18, 2022, is incorporated by reference into this award. It is accessible at:
<https://www.grants.gov/web/grants/view-opportunity.html?oppId=344108>

8. Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements:

The Department of Commerce Pre-Award Notification Requirements for Grants and Cooperative Agreements as published in the *Federal Register* on December 30, 2014 (79 FR 78390) is incorporated by reference into this award. It is accessible at:
<http://www.gpo.gov/fdsys/pkg/FR-2014-12-30/pdf/2014-30297.pdf>.

9. Uniform Administrative Requirements, Cost Principles and Audit Requirements

Through 2 C.F.R. § 1327.101, the Department of Commerce adopted Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards at 2 C.F.R. Part 200, which apply to awards in this program. Refer to <http://go.usa.gov/SBYh> and <http://go.usa.gov/SBg4>. Awards issued pursuant to this program may be subject to specific award conditions as authorized by 2 C.F.R. § 200.208.

10. Deviation to the Department of Commerce Financial Assistance Standard Terms and Conditions, Section A.01 "Reporting Requirements":

The Recipient must submit a Federal Financial Report (SF-425) and Performance Progress Report on a quarterly basis for the periods ending March 31, June 30, September 30, and December 31, or any portion thereof.

Reports are due no later than 30 calendar days following the end of each reporting period. A final SF-425 and Performance Progress Report must be submitted within 120 days after the expiration of the period of performance.

All SF-425 and Performance Progress Reports must be submitted to: GReports@nist.gov, within the prescribed timeframes identified in the terms and conditions of the award.

The Recipient organization name, NIST award number, and reporting period must be included in the email subject line. The Recipient contact information should be included in the body of the message. To the greatest extent possible, SF-425 and Performance Progress Reports should be submitted together in the same email.

SF-425 and Performance Progress Reports must not be sent directly to NIST personnel (e.g. Grants Specialist, Grants Officer, Administrative Assistant, GMD Division Chief, Federal Program Officer, etc.).

Any SF-425 or Performance Progress Reports sent directly to NIST personnel will be returned to the sender with instructions on how to submit through the GReports@nist.gov mailbox.

No other correspondence may be sent through this mailbox; timely responses to any other inquiries received in this mailbox are not guaranteed. The mailbox will not be used for any other purpose except for purposes identified above.

11. Department of Commerce Financial Assistance Standard Terms and Conditions:

As indicated on the Form CD-450 for this award, the Department of Commerce Financial Assistance Standard Terms and Conditions (ST&C) issued November 12, 2020, are incorporated by reference into this award. The Department's ST&C, as well as a link to 2 CFR Part 200, are accessible at: <https://www.commerce.gov/oam/policy/financial-assistance-policy>.

12. NIST Standard Terms and Conditions for Extramural Construction Projects:

As indicated on the Form CD-450 for this award, the National Institute of Standards and Technology Standard Terms and Conditions for Extramural Construction Projects (Construction ST&Cs) dated May 11, 2023 are incorporated by reference into this award. The Construction ST&Cs are accessible at [NIST Standard Terms and Conditions for Extramural Construction Projects | NIST](#).

13. Unfunded Grant Actions Mailbox (UGAM):

Requests for unfunded award actions, which include, but are not limited to, requests for no-cost extension, change in key personnel, change in scope of work, and budget revisions must be submitted to: UGAM@nist.gov, within the prescribed timeframes identified in the terms and conditions of the award.

NIST Financial Assistance Award Number: 60NANB23D159

Amendment: NEW

Recipient: Burlington School District

Unfunded award action requests and related correspondence, including justification to support the request, sent to the mailbox must contain the following information in the email subject line: (1) Recipient name; (2) NIST award number; (3) Principal Investigator/Project Director; and (4) Action being requested (e.g. no cost extension, change in key personnel, etc.).

Unfunded award action requests must not be sent directly to NIST personnel (e.g. Grants Specialist, Grants Officer, Administrative Assistant, GMD Director, Federal Program Officer, etc.).

Any requests sent directly to NIST personnel will be returned to the sender with instructions on how to submit through the UGAM@nist.gov mailbox.

No other correspondence may be sent through this mailbox; timely responses to any other inquiries received in this mailbox are not guaranteed. The mailbox will not be used for any other purpose except for purposes identified above.

Requests that are processed will be authorized via a Form CD-451 Amendment to the Financial Assistance Award or a Non-Funded Administrative Change Letter.

14. Supervision of the Recipient's Staff and Associates and Compliance with NIST Policies on Use of Federal Facilities and Equipment:

Consistent with Department of Commerce Financial Assistance Standard Terms and Conditions, Section A.05, nothing in this award will be construed as authorizing the Recipient or its employees, agents, or assigns to act as an agent or assign of NIST, and the Recipient must exercise all diligence to ensure that no third party construes the Recipient as an actual, ostensible, or apparent agent of NIST. For purposes of this award, the use of the term "personnel" herein includes all third parties, such as contractors, subrecipients, students, fellows, or others participating under the direction of the Recipient's programs. The Recipient acknowledges that it is independent of NIST in the performance of the approved projects, and that the Recipient assumes full and sole responsibility for all benefits and protections of the Recipient's personnel and agents whose services are utilized by the Recipient in the execution of this award.

Accordingly, the Recipient must control the means and manner of its personnel's activities on the project, including those conducted on a NIST campus, on Recipient property, and at other locations for the project. The Recipient must directly provide a salary, stipend, or other funding to the personnel, and must establish the work schedule and tenure for the personnel. The Recipient is the supervisor of record for the personnel and will coordinate with NIST as needed to ensure that the research remains consistent with NIST program objectives.

15. Estimated Useful Life:

The estimated useful life of the building renovation portion of this project is 15 years from when the date on which the Certificate of Occupancy for the renovations is issued.

16. Property Trust Relationship and Public Notice Filings for Grant-Acquired Property:

In accordance with 2 CFR § 200.316 (Property trust relationship), real property, equipment, and intangible property, that are acquired or improved with a Federal award must be held in trust by the non-Federal entity (*i.e.*, Recipient or Subrecipient) as trustee for the beneficiaries of the project or program under which the property was acquired or improved. This trust relationship exists throughout the duration of the property's estimated useful life, as determined by the Grants Officer in consultation with the Program Office, during which time the Federal Government retains an undivided, equitable reversionary interest in the property (Federal Interest). The non-Federal entity must comply with all use and disposition requirements and restrictions as set forth in 2 C.F.R. §§ 200.310 (Insurance coverage) through 200.316 (Property trust relationship), as applicable, and in the terms and conditions of the Federal award.

The Grants Officer may require a non-Federal entity (*i.e.*, a Recipient or Subrecipient) to execute and to record (as applicable) a statement of interest, financing statement (Form UCC-1), lien, mortgage or other public notice of record to indicate that real or personal property acquired or improved in whole or in part pursuant to this award is subject to the Federal Interest, and that certain use and disposition requirements apply to the property. The statement of interest, financing statement (Form UCC-1), lien, mortgage or other public notice must be acceptable in form and substance to the NIST Grants Officer and must be placed on record in accordance with applicable State and local law, with continuances re-filed as appropriate. In such cases, the NIST Grants Officer may further require the non-Federal entity to provide a written statement from a licensed attorney in the jurisdiction where the property is located, certifying that the Federal Interest has been protected, as required under the award and in accordance with applicable State and local law. The attorney's statement, along with a copy of the instrument reflecting the recordation of the Federal Interest, must be promptly returned to the Grants Officer.

Without releasing or excusing the non-Federal entity from these obligations, the non-Federal entity, by execution of the financial assistance award or by expending Federal financial assistance funds (in the case of a subrecipient), authorizes the NIST Grants Officer to file such notices and continuations as it determines to be necessary or convenient to disclose and protect the Federal Interest in the property. The NIST Grants Officer may elect not to release any or a portion of the Federal award funds until the non-Federal entity has complied with this provision and any other applicable award terms or conditions, unless other arrangements satisfactory to the NIST Grants Officer are made.

17. Environmental and Historic Review:

NIST Financial Assistance Award Number: 60NANB23D159

Amendment: NEW

Recipient: Burlington School District

The Recipient must comply with all applicable requirements, environmental and historic preservation laws, Executive Orders, regulations, standards, and guidance, and identify to NIST any impact a project may have on the environment or historic resources.

Project implementation may not begin prior to the completion of a review of potential environmental impacts, per the National Environmental Policy Act of 1969 (42 U.S.C. 4321, et. seq.) (NEPA) and Section 106 of the National Historic Preservation Act of 1966 (16 U.S.C. § 470, et. seq.).

The completion of NEPA compliance activities will result in one of the following: a Categorical Exclusion, an Environmental Assessment/Finding of No Significant Impact (EA/FONSI), or an Environmental Impact Statement. A decision document will not be issued until all required consultations, including, Section 7 of the Endangered Species Act (16 U.S.C. §1531, et. seq.), and any other required consultations are complete. The Recipient must also address compliance with all other applicable federal, state, and local environmental laws and regulations.

Under Section 106 of the NHPA, federal agencies, and by extension recipients of federal grant funds, must evaluate the potential effects of any proposed projects (“undertakings”) on properties listed on, or eligible for listing on, the National Register of Historic Places. Grant recipients are encouraged to initiate Section 106 consultation with relevant State Historic Preservation Offices (SHPOs) or, in the case of institutions located on tribal lands, the proper Tribal Historic Preservation Office (THPO) as directed by NIST. NIST will remain involved in resolution in the event of an adverse effect determination.

A Environmental and Historic Review, to include any required consultations under NEPA and Section 106 of the NHPA, must be completed no later than six months after the award start date; unless a formal request for extension is submitted and approved by the Grants Officer. The Recipient must comply with all conditions placed on the project as the result of the consultation processes. The Recipient may not expend any federal grant funds, except as authorized by the Grants Officer pursuant to approval of the 6-month expenditure plan (discussed below).

The Recipient is required to provide the following information that will enable NIST to make a preliminary determination regarding the potential impact of the proposed project on environmental and historic resources:

1. A thorough description of all proposed project activities, particularly buildings and other capital improvement activities that will be conducted. Include: (i) the area and extent of earthwork (drilling, excavation, fill, blasting, dredging, etc.), (ii) environmental communication, documentation, or permitting (planned, pending, or in place), (iii) any determination upon the project by any department of environment or other agency or office, (iv) floodplain mapping on the site itself or any adjacent or contiguous property, (v) any special interest in the project or the site, (vi) any public meetings planned or held regarding the on the site itself or adjacent or contiguous property, (vii) any threatened or

endangered species or any migratory birds or bald or golden eagles on the site itself or adjacent or contiguous property, or (viii) any essential fish habitat or any portion of the National Wild and Scenic River System or Coastal Barrier System or navigable waters on the site itself or adjacent or contiguous property, (ix) any waters of any stream or other body of water “proposed or authorized, permitted or licensed to be impounded, diverted, or otherwise controlled or modified”, (x) any identified or potential wetland on the site itself or any adjacent or contiguous property, (xi) any hazardous or regulated substances or Superfund activity on the site itself or adjacent or contiguous property, and/or (xii) any invasive species on the site itself or adjacent or contiguous property.

2. Maps of the project area and ground-level and aerial photographs with installation/renovation locations clearly marked on the buildings impacted. Free online resources, such as Google maps or similar images, are acceptable.

3. For the list of buildings, referenced in Item #1, state the year those buildings were first constructed as well as the dates of any subsequent major renovations. For buildings that are 45 years old or older, provide photos of installation sites, as well as exterior and interior photos of the building. Provide any property relevant to this application which is (i) within the viewshed of a registered historic property or (ii) within a historic district or (iii) registered as historic itself or (iv) noted to be historically or architecturally significant in any study or article of public interest. Provide any communication, documentation, or permitting under the project, e.g., determination upon the project by a SHPO and/or THPO.

NOTE: The Recipient must submit a draft Environmental and Historic Review with all initial required project information listed above in Items #1 – #3 to NIST via UGAM@nist.gov no later than 60 calendar days after award start date, unless an extension has been requested in writing by the Recipient and approved by the Grants Officer.

Follow-on information may be required for NIST to determine the level of impacts of the project on environmental and historic resources. If consultation is required, grantees are encouraged to initiate consultation as referenced above and must provide NIST with relevant documentation of the consultation process. Once appropriate and applicable consultations have been completed, and environmental review documentation has been completed, NIST will review all documentation and determine whether the review sufficiently addresses all resource areas and whether the project may qualify for an approval decision.

Once the above information is provided, NIST will review and provide guidance on the next steps that the recipient should take regarding required consultations and/or environmental and historic preservation documentation required to make environmental determinations. Next steps may include, but are not limited to, the submittal and completion of the following:

1. The completion of any required consultations as described above where applicable and directed by NIST, to include consultations with the SHPO and/or THPO and the appropriate federally-recognized Native American tribes (if applicable), under Section 106 of the NHPA, and/or consultations with the USFWS under Section 7 of the ESA;
2. The completion of environmental review and issuance by NIST of a decision document, as described above, that meets the requirements of NEPA; and
3. Compliance with all other applicable federal, state, and local environmental laws and regulations.

The Recipient is required to provide any information requested by NIST in a timely and effective manner to ensure both initial and ongoing compliance with environmental and historic preservation laws, regulations, and best practices. All such information must be sent to the FPO.

The Recipient shall notify NIST within 24 hours upon receipt of any notices of foreclosure; notices for continuing consultation received from the SHPO, THPO or other consulting party; or notices of noncompliance received from consulting authorities or regulatory agencies. These notices shall be sent to the FPO. Projects which, after consultation with appropriate agencies, are determined to be ineligible for a CE will require the development of an EA/FONSI. The Recipient may wish to coordinate with NIST to rescope or descope the proposed project to avoid or minimize impacts to environmental and historic resources.

Any change to the approved project scope, resulting from consultations or for other reasons, that have the potential for altering the nature or extent of environmental or cultural resources impacts must immediately be brought to the attention of NIST and will be re-evaluated for compliance with applicable regulatory requirements.

For all ground disturbing activities in the vicinity of known archaeological sites or suspected or known burials, the Recipient must ensure that an archaeologist who meets the Secretary of the Interior's Professional Qualification Standards monitors ground disturbance, and if any potential archeological resources or buried human remains are discovered, then the Recipient must immediately cease construction in that area and notify NIST and the interested SHPO, THPO, and tribes. Such construction activities may then only continue with the written approval of NIST.

6-Month Expenditure Plan

While this SAC is in effect, the Recipient shall submit, in advance of any program fund drawdowns from ASAP.gov, a 6-month expenditure plan that presents the proposed expenditure of award funds prior to the completion of the environmental review process, including any preliminary procurement activities. The NEPA Coordinator and the Federal

Preservation Officer will review the plan and provide recommendations to the Federal Program Officer and the Grants Officer for final approval to ensure that the proposed activities and expenditures are reasonable and necessary in the context of environmental and historical compliance. Approval of the Grants Officer is required prior to fund drawdowns of the 6-Month Expenditure Plan through ASAP.gov.

The allowable use of funds for preliminary expenditures prior to beginning project implementation includes, but is not limited to, the initiation of activities necessary to meet the project completion requirements as specified in the award including environmental and historic preservation requirements:

1. Required environmental and historic preservation consultation activities;
2. Purchase or lease of equipment, or entering into binding contracts to do so; and
3. Purchase of applicable or conditional insurance.

The allowable use of preliminary expenditure funds is limited; must not result in an irrevocable commitment of resources; and is only allowed after inclusion in and approval of a 6-month expenditure plan.

18. Signage and Public Acknowledgement Requirements:

a. Signs - The Recipient is encouraged to include project signage, satisfactory in form and content to NIST, that identifies the nature of the project and indicates that “the project is funded by the Consolidated Appropriations Act, 2022.” In addition, guidelines for project signage, including an emblem and corresponding logomark, is available in the Official Investing in America Emblem Style Guide: <https://www.whitehouse.gov/wp-content/uploads/2023/02/Investing-in-America-Brand-Guide.pdf>. Costs associated with signage must be reasonable and limited. The Recipient is encouraged to use recycled or recovered materials when procuring signs. Signs should not be produced or displayed if doing so results in unreasonable cost, expense, or recipient burden. Any construction site sign should be displayed throughout the construction phase of the project in an easily visible location directly linked to the work taking place. The Recipient is responsible to maintain the sign in good condition throughout the construction period.

b. Plaque - Any plaque installed at the discretion of the Recipient, citing the origins or history of the project, should identify the project as a “project funded by Consolidated Appropriations Act, 2022.”

c. Communications - Any banner or other message intended for public display on the project site should remain within the spirit of transparency and public information provided herein.

19. Final Site Selection:

NIST Financial Assistance Award Number: 60NANB23D159

Amendment: NEW

Recipient: Burlington School District

Within 60 calendar days of the award start date, the Recipient must provide to the Federal Program Officer and Grants Specialist identified in this award, a final site selection for the Burlington Aviation Technology Center Facility. The site selection must be approved by NIST prior to advertisement of construction. All grant funding will be withheld until this Specific Award Condition is deemed satisfied in writing by the NIST Grants Officer.

End of Specific Award Conditions

BUDGET INFORMATION - Construction Programs

NOTE: Certain Federal assistance programs require additional computations to arrive at the Federal share of project costs eligible for participation. If such is the case, you will be notified.

COST CLASSIFICATION	a. Total Cost	b. Costs Not Allowable for Participation	c. Total Allowable Costs (Columns a-b)
1. Administrative and legal expenses	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
2. Land, structures, rights-of-way, appraisals, etc.	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
3. Relocation expenses and payments	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
4. Architectural and engineering fees	\$ <input type="text" value="947,427.00"/>	\$ <input type="text" value="547,427.00"/>	\$ <input type="text" value="400,000.00"/>
5. Other architectural and engineering fees	\$ <input type="text" value="50,000.00"/>	\$ <input type="text"/>	\$ <input type="text" value="50,000.00"/>
6. Project inspection fees	\$ <input type="text" value="600,000.00"/>	\$ <input type="text"/>	\$ <input type="text" value="600,000.00"/>
7. Site work	\$ <input type="text" value="7,050,000.00"/>	\$ <input type="text"/>	\$ <input type="text" value="7,050,000.00"/>
8. Demolition and removal	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
9. Construction	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
10. Equipment	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
11. Miscellaneous	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
12. SUBTOTAL (sum of lines 1-11)	\$ <input type="text" value="8,647,427.00"/>	\$ <input type="text" value="547,427.00"/>	\$ <input type="text" value="8,100,000.00"/>
13. Contingencies	\$ <input type="text" value="1,800,000.00"/>	\$ <input type="text"/>	\$ <input type="text" value="1,800,000.00"/>
14. SUBTOTAL	\$ <input type="text" value="10,447,427.00"/>	\$ <input type="text" value="547,427.00"/>	\$ <input type="text" value="9,900,000.00"/>
15. Project (program) income	\$ <input type="text"/>	\$ <input type="text"/>	\$ <input type="text"/>
16. TOTAL PROJECT COSTS (subtract #15 from #14)	\$ <input type="text" value="10,447,427.00"/>	\$ <input type="text" value="547,427.00"/>	\$ <input type="text" value="9,900,000.00"/>
FEDERAL FUNDING			
17. Federal assistance requested, calculate as follows: (Consult Federal agency for Federal percentage share.) Enter the resulting Federal share.			Enter eligible costs from line 16c Multiply X <input type="text" value="100"/> % \$ <input type="text" value="9,900,000.00"/>

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PERM-A-BARRIER® VPS 30 WALL MEMBRANE Data Sheet

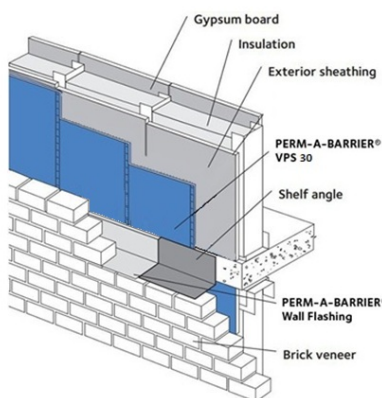
Primerless, self-adhering, vapor permeable air and water barrier membrane



Product Description

The PERM-A-BARRIER® VPS 30 (vapor permeable sheet) is a primerless, vapor permeable air and water barrier membrane consisting of a proprietary breathable carrier film with a specially designed adhesive. This unique membrane provides superior protection against the damaging effects of air and water ingress on building structures. It creates an effective barrier against air infiltration and exfiltration, which reduces associated energy loss and condensation problems through the building envelope.

The PERM-A-BARRIER® VPS 30 membrane is ideal for wall assemblies that require a breathable air barrier. It permits the diffusion of water vapor that might otherwise condense in the wall structure. The membrane is impermeable to water, enabling it to also act as a water drainage plane.



Typical vapor permeable air barrier application drawings are for illustration purposes only.
Please refer to gcpat.com/construction for specific application details.

Advantages

- Wide application window - Surface and ambient temperatures at 0° F (-17.78° C) and above
- Primerless, self-adhered sheet - Reduces installation time
- NFPA 285 - Meets NFPA 285 as part of various wall assemblies
- Airtight - Protects against air passage and associated energy loss
- Vapor permeable - Minimizes moisture from being trapped in the wall cavity

- Water resistant – Resists wind-driven rain
- Controlled thickness – Factory-made sheet ensures constant, non-variable site application
- Lightweight – Allows for easy handling and installation
- Flexible – Conforms and bonds tightly to inside and outside corners following exterior building profiles
- Strong adhesion – Forms a tenacious bond to prepared construction substrates
- Compatible with GCP PERM-A-BARRIER® flashing systems
- Higher Inservice temperature stability up to 200 °F (93 °C)

System Components

- PERM-A-BARRIER® VPS 30 wall membrane – Use at installation temperatures above 0° F (-17.78° C).

Ancillary Products

- PERM-A-BARRIER® S100 Sealant – For Detailing/ Liquid Flashing purposes
- PERM-A-BARRIER® NPS detail membrane – Fully adhered primerless flashing
- PERM-A-BARRIER® aluminum flashing – Aluminum faced flashing
- PERM-A-BARRIER® detail membrane – Fully adhered flashing for protecting and sealing critical detail areas
- PERM-A-BARRIER® wall flashing – Fully adhered throughwall flashing system
- BITUTHENE® mastic – Rubberized asphalt mastic for sealing penetrations, terminations, brick ties, etc.
- BITUTHENE® liquid membrane – Two-component, elastomeric liquid and sealant applied detailing compound used for details and terminations

Limitations of Use

- Approved uses only include those specifically detailed in this product data sheet and other current product data sheets found at gcpat.com
- The PERM-A-BARRIER® VPS 30 membrane is not intended for any other use than what is found in this data sheet. Contact GCP Technical Services where any other use is anticipated or intended.
- The PERM-A-BARRIER® VPS 30 membrane must not be applied in areas where it will be permanently exposed to direct sunlight. The PERM-A-BARRIER® VPS 30 membrane must be covered within 270 (9 months) days of installation. Refer to Technical Letter 19, Exposure Guidelines for PERM-A-BARRIER® Self-Adhered Membranes, as exposure guidelines for some system components may vary.

Safety and Handling Information

Read and understand the product label and safety data sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office, by calling GCP toll free at 1-866-333-3SBM (3726) and in some cases from our website at gcpat.com.

Storage

- All materials must be protected from rain and physical damage. Pallets of PERM-A-BARRIER® VPS 30 membranes must not be double stacked on the job site. Store off the ground and provide cover on top and all sides, allowing for adequate ventilation.
- Store the membranes where temperatures will not exceed 90 °F (32 °C) for extended periods.
- All products must be stored in a dry area away from high heat, flames or sparks.

Installation

Temperature Limitation

The PERM-A-BARRIER® VPS 30 wall membrane may be applied only when air and surface temperatures are above 0 °F (-17.78 °C). Maximum in-service temperature is 200 °F (93 °C).

Surface Preparation

The surface must be smooth, clean, dry to the touch and free of voids, spalled areas, loose aggregate, loose nails, sharp protrusions or other matter that might hinder the adhesion or regularity of the wall membrane installation. Clean loose dust or dirt from the surface that the wall membrane is to be applied to by wiping it with a clean, dry cloth or brush. It is best practice to apply a PERM-A-BARRIER® primer or adhesive onto any gypsum cut edge to reduce dust prior to membrane application. For OSB, it is recommended to use PERM-A-BARRIER® Adhesive Primer with a coverage rate of >450sft/gal before applying the membrane.

Membrane Application

Cut membrane into easily handled lengths. For surfaces without pre-existing, in-place penetrations (masonry anchors, ties etc.), apply the membrane horizontally or vertically to the properly prepared substrate, beginning at the base. All subsequent side and end laps must maintain a minimum overlap of 2 in. (51 mm). All horizontal laps must be applied in a shingle/water shedding configuration.

For conditions with existing masonry anchors (ties), apply the membrane horizontally to the prepared wall, beginning at the base. Each length of the membrane must be installed so that the upper edge runs continuously along the underside of the line of masonry anchors (ties). Subsequent membranes applied above must overlap the sheet below by 2 in. (51 mm) immediately below the line of anchors (ties). The membrane may be cut to an appropriate width such that it fits between the rows of anchors and allows for a min. 2 in. (51 mm) overlap onto the membrane below. It will be necessary to cut the membrane at the location of the anchors projecting from the wall to enable the sheet to be laid in place.

All slits and relief cuts made around the anchors (ties) are required to be sealed with BITUTHENE® mastic, BITUTHENE® liquid membrane, PERM-A-BARRIER® S100 Sealant or GCP approved, compatible sealant. End laps and side laps that occur in subsequent lengths that follow should maintain a minimum overlap of 2 in. (51 mm).

To prevent water from migrating under the membrane, the membrane must be rolled firmly into place with a hand roller as soon as possible, ensuring continuous and intimate contact with the substrate.

In certain applications such as on soffits or ceilings, back nail the membrane along the side lap prior to installing/overlapping the next sheet of membrane.

In these applications, additional fastening may be required through the field of the membrane, and must be sealed with BITUTHENE® mastic, BITUTHENE® liquid membrane, PERM-A-BARRIER® S100 Sealant or GCP approved sealant. Alternately, install a termination bar that spans the soffit to ensure positive contact to the substrate.

Apply BITUTHENE® mastic, BITUTHENE® liquid membrane, PERM-A-BARRIER® S100 Sealant or GCP approved, compatible sealant to seal around the anchors. Fit the PERM-A-BARRIER® VPS 30 product tightly around all penetrations through the membrane and seal using BITUTHENE® liquid membrane or GCP approved compatible sealant.

Continue applying the membrane into all openings in the wall area, such as windows, doors, etc., and terminate at points that will prevent interior visibility. The installation must be made continuous at all framed openings, such as windows, doors, etc. Flash framed openings with PERM-A-BARRIER® NPS detail membrane, PERM-A-BARRIER® aluminum flashing, or PERM-A-BARRIER® detail membrane, and overlap onto PERM-A-BARRIER® VPS 30 in a shingled water shedding manner. Coordinate installation of PERM-A-BARRIER® VPS 30 with the roofing trade to ensure continuity with the roofing system at this critical transition area.

At the end of each working day, if the wall has been only partially covered, apply a bead of BITUTHENE® mastic, BITUTHENE® liquid membrane or GCP approved, compatible sealant along the top edge of the membrane at its termination to prevent vertical drainage of precipitation from penetrating the end and undermining the membrane adhesion. Tool to ensure the sealant is worked into the surface.

Inspect the membrane before covering, and repair any punctures, damaged areas or inadequately lapped seams.

Membrane Protection

PERM-A-BARRIER® VPS 30 wall membranes must be protected from damage by other trades or construction materials. All damaged areas must be repaired.

Membrane Repairs

Repairs must be made using PERM-A-BARRIER® VPS 30 Wall Membrane sized to extend 3 in. (75mm) in all directions from the perimeter of the affected area. The repair piece must be pressed into place with a hand roller as soon as possible to ensure continuous and intimate contact with the substrate. When sealing the patch if placed in a diamond pattern both water sheading edges will need sealant. If the patches are placed straight, then the top edge and minimum of 3" down each side will need sealant termination. If the sealing patch is horizontal, then all edges will need sealant termination. To seal apply a bead of BITUTHENE® mastic, BITUTHENE® liquid membrane, PERM-A-BARRIER® S100 Sealant. To repair gaps which are less than 1/8 inch in diameter (fish mouth gaps) cover with 'PERM-A-BARRIER® S100 Sealant' extending 2 inches in diameter from the gap.

Supply

Product	Unit of Sale	Size/Coverage	Weight (nominal)	Palletization
PERM-A-BARRIER® VPS 30 wall membrane	1 roll	38.5 in X 141 ft 450 ft ² per roll	32 lbs./roll	25 cartons (25 rolls) per pallet

Physical Properties

Property	PERM-A-BARRIER® VPS 30 Wall Membrane	Test Method
Color	White	
Water resistance of in-place membrane	Pass at >20 psf	ASTM E331
Air permeance at test pressure of 1.57 psf (75 Pa)	< 0.02 L/s/m ² (0.004cfm/ft ²)	ASTM E2178
Assembly air permeance at test pressure of 1.57 psf (75 Pa)	< 0.2 L/s/m ² (0.04cfm/ft ²)	ASTM E2357
Water vapor permeance	13.9 perms	ASTM E96, Method B, wet cup
Water resistance	Pass	ICC – AC38
Water Penetration Resistance Around Nails / Fastener Sealability	Pass	AAMA 711 Section 5.2, ASTM D1970 Modified
Peel strength @ minimum temperature (25°F)	>1.5 lbf/in to VPS 30	ASTM D903 modified
Pull adhesion	>15 psi. Gypsum board >12 psi CMU	ASTM D4541
Breaking force	>40lb Machine Direction >35lb Cross Direction	ASTM D5034
Low temperature flexibility	Pass	ICC – AC38
Surface burning characteristics	Flame Spread Index, Class A Smoke Developed Index, Class A	ASTM E84
Drainage Efficiency	90%*	ASTM E2273
Wall assembly fire test	Pass as part of various wall assemblies with foam plastic insulation	NFPA 285

*Please request external test report, if needed, for more details.

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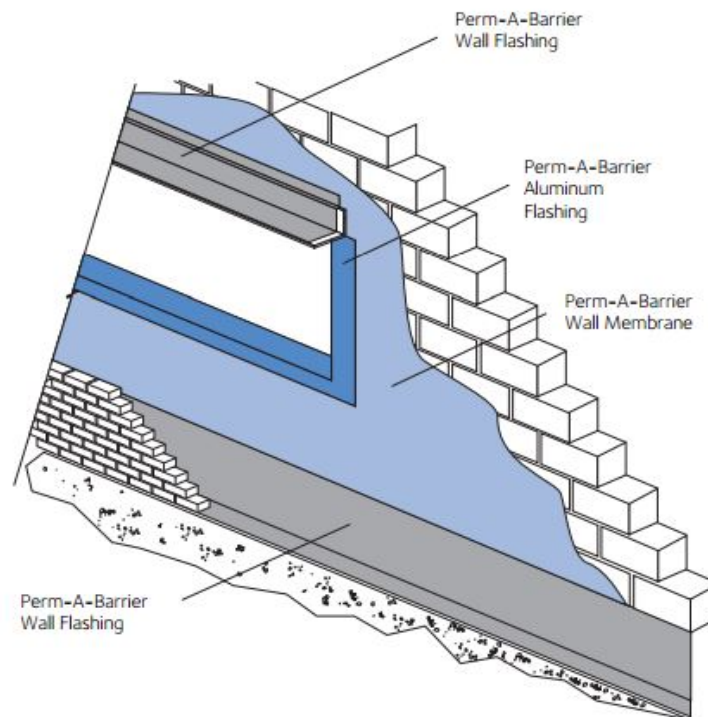
PERM-A-BARRIER® Aluminum Flashing Data Sheet

Self-adhesive, rubberized asphalt/polyethylene detail membrane for air and vapor barrier applications

Product Description

PERM-A-BARRIER® Aluminum Flashing is ideal for protecting and sealing critical areas of the building superstructure from the damaging effects of the elements. By minimizing air and water vapor flow through the building exterior at transition areas, PERM-A-BARRIER® Aluminum Flashing:

- Seals transition and detail areas to provide a continuous air barrier
- Prevents premature deterioration of the building envelope



Product Advantages

- Fully bonded - transmits wind loads directly to the substrate
- Waterproof and impermeable to moisture - impermeable to the passage of liquid water and water vapor
- Aluminum faced film - provides extended UV exposure, improved sealant adhesion to film, dimensional stability, high tear strength, puncture and impact resistance
- Cold applied - no flame hazard; self-adhesive overlaps ensure continuity
- Flexible - accommodates minor settlement and shrinkage movement

- **Controlled thickness** – factory made sheet ensures constant, non-variable site application
- **Aggressive, conformable adhesive** – allows self-sealing around mechanical fasteners
- **Wide application window** – PERM-A-BARRIER® Aluminum Flashing surface and ambient temperatures at 25 °F (-4 °C) and above

System Components

- **PERM-A-BARRIER® Aluminum Flashing** – Aluminum faced fully adhered flashing for protecting and sealing critical detail areas
- **PERM-A-BARRIER® WB Primer** – high tack, water-based primer for use with PERM-A-BARRIER® Aluminum Flashing on cementitious and exterior gypsum wallboards
- **BITUTHENE® Primer B2 LVC** – low VOC solvent-based primer for green concrete or damp surfaces
- **PERM-A-BARRIER® Universal Flashing & Sealant** – one part moisture curing, STPE sealant for sealing penetrations, terminations, brick ties, final terminations & flashing application.
- **BITUTHENE® Mastic Trowel Grade** – rubberized asphalt mastic for sealing patches, terminations, brick ties, etc.
- **BITUTHENE® Liquid Membrane** – two component, trowel grade, asphalt modified urethane for sealing patches, terminations, brick ties, etc.

Installation

Safety

PERM-A-BARRIER® products must be handled properly. Vapors from the mastic and solvent-based primer are harmful and flammable. For these products, the best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Refer to product label and SDS (Safety Data Sheet) before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS before use. SDSs can be obtained from our web site at gcpat.com or by contacting us toll free at 866-333-3SBM (3726).

Surface Preparation

Surface must be smooth, clean, dry and free of voids, spalled areas, loose aggregate, loose nails, sharp protrusions or other matter that will hinder the adhesion or regularity of the wall membrane installation. Clean loose dust or dirt from the surface to which the detail membrane is to be applied by wiping with a clean, dry cloth or brush.

If the substrate is damp, allow to dry or use BITUTHENE® Primer B2 LVC to prepare the area to receive the membrane. DO NOT apply any primer to PERM-A-BARRIER® Aluminum Flashing.

Temperature

PERM-A-BARRIER® Aluminum Flashing may only be applied in dry weather when air and surface temperatures are above 25 °F (-4 °C).

Application

Priming – PERM-A-BARRIER® WB Primer is a water-based primer which imparts an aggressive, high tack finish on the treated substrate. They are packaged ready to use and are specifically designed to facilitate tenacious adhesion of PERM-A-BARRIER® Aluminum Flashing to various substrates including glass-mat faced gypsum sheathing. Refer to Technical Letter 2, *Substrate Preparation for Application of PERM-A-BARRIER® Products to Glass-Mat Faced Gypsum Sheathing* for priming requirements on specific glass-mat faced sheathing products.

Aluminum Flashing Application – Pre-cut PERM-A-BARRIER® Aluminum Flashing to easily handled lengths. Peel release paper from roll to expose rubberized asphalt and carefully position tape against substrate. Press firmly into place with a steel hand roller or the back of a utility knife as soon as possible, fully adhering the tape to the substrate to prevent water from migrating under the PERM-A-BARRIER® Aluminum Flashing. Overlap adjacent pieces 2 in. (51 mm) and roll overlap with a smooth seam roller.

When applying Aluminum Flashing to PERM-A-BARRIER® Wall Membranes and Wall Flashing – Apply a bead of Universal Flashing & Sealant, BITUTHENE®Mastic or BITUTHENE®Liquid Membrane along all top edges, cuts, penetrations and as shown in GCP detail drawings, and trowel into place.

When applying Aluminum Flashing to PERM-A-BARRIER® Liquid, PERM-A-BARRIER® VP, PERM-A-BARRIER® VP Low Temp or PERM-A-BARRIER® VPO – Apply a bead of Universal Flashing & Sealant or BITUTHENE®Liquid Membrane along all top edges, cuts, penetrations and as shown in detail drawings, and trowel into place. If PERM-A-BARRIER® Liquid is more than 7 days old, priming may be necessary. Refer to Technical Letter 11 for more information.

Complete installation instructions and details are available upon request.

If wrinkles develop, carefully cut out affected area and replace in similar procedure outlined above. The repair piece must be pressed into place with a hand roller as soon as possible to ensure continuous and intimate contact with the substrate.

All non water shedding edges must be sealed with Universal Flashing & Sealant, BITUTHENE®Liquid Membrane or BITUTHENE®Mastic.

Membrane Protection

PERM-A-BARRIER® Aluminum Flashing must be protected from damage by other trades or construction materials.

Storage and Handling Information

All materials must be protected from rain and physical damage. Pallets of PERM-A-BARRIER® Aluminum Flashing must not be double stacked on the job site. Provide cover on top and all sides, allowing for adequate ventilation. Store membrane where temperatures will not exceed 90°F (32°C) for extended periods. All products must be stored in a dry area away from high heat, flames or sparks. Store only as much material at point of use as is required for each day's work.

Limitations

PERM-A-BARRIER® Aluminum Flashing must not be applied in areas where it will be exposed to direct sunlight permanently, and must be covered within 1 year. Refer to Technical Letter 19, *Exposure Guidelines for PERM-A-BARRIER® Self-Adhered Membranes*.

PERM-A-BARRIER® Aluminum Flashing and all other PERM-A-BARRIER® self-adhered membranes should not be applied over Universal Flashing & Sealant.

Warranty

PERM-A-BARRIER® products are warranted to be free of defects in manufacture for a period of 5 years. Material will be provided at no charge to replace any defective product.

Technical Service

Support is provided by full-time technically trained GCP field sales representatives and technical service personnel, backed by a central research and development technical services staff.

Physical Properties

Available in 4", 6", 9", 12" & 18" width

PROPERTY	TYPICAL VALUE	TEST METHOD
Thickness	0.040 in. (1.0 mm)	ASTM D3767 method A
Minimum tensile strength, membranes	600 psi	ASTM D412 die C modified
Minimum tensile strength, film	4000 psi	ASTM D412 die C modified
Minimum elongation, to failure of rubberized asphalt	200%	ASTM D412 die C modified
Pliability, at 180° bend over 1 in. (25 mm) mandrel	Pass at -15°F (-26°C)	ASTM D1970
Crack cycling, 1/8in. (3.2 mm) at -25°F (-32°C)	Unaffected	ASTM C836
Minimum puncture resistance, membrane	80 lbs (355 N)	ASTM E154
Water absorption	0.1%	ASTM D570

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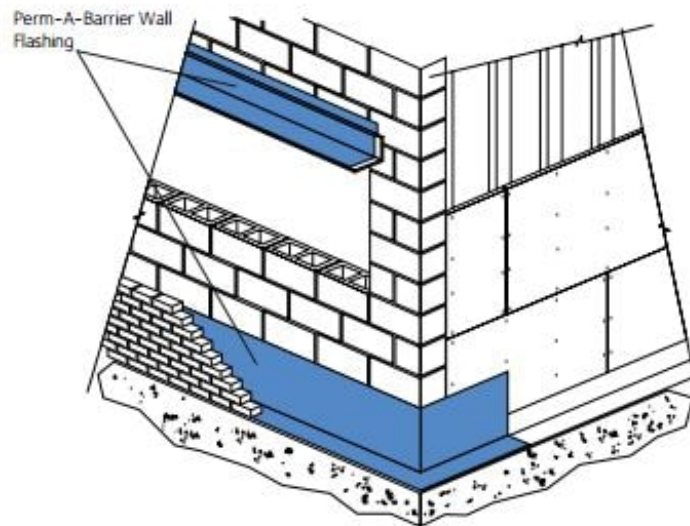
PERM-A-BARRIER® Wall Flashing Data Sheet

Self-adhesive, rubberized asphalt/polyethylene through-wall flashing for cavity wall applications

Product Description

PERM-A-BARRIER® wall membranes are ideal for protecting the building superstructure from the damaging effects of the elements. By minimizing air and water vapor flow through the building exterior, PERM-A-BARRIER® wall membranes:

- Prevent premature deterioration of the building envelope
- Enhance thermal performance of the structure and save energy costs
- Improve comfort for the building occupant



Product Advantages

- Fully bonded—continuous adhesion to the substrate resists wind loads and prevents water tracking behind the tape
- Waterproof and impermeable to moisture—impermeable to the passage of liquid water and water vapor
- Cross laminated film—provides dimensional stability, high tear strength, puncture and impact resistance
- Cold applied—no flame hazard; self-adhesive overlaps ensure continuity
- Flexible—accommodates minor settlement and shrinkage movement
- Controlled thickness—factory made sheet ensures constant, non-variable site application
- Aggressive, conformable adhesive—creates 100% watertight laps and allows self-sealing around mechanical fasteners

- **Unique green color and logo**—highly differentiated on the job site from other flashing types and enables easy identification of damage
- **RIPCORD® Split Release on Demand**—faster application in the straight-aways, ease of membrane positioning in detailed areas
- **Foldless release paper**—fewer edge catches, 180° pull-back, ease of membrane cutting (single cuts) and membrane positioning, quicker one-man installs

System Components

- **PERM-A-BARRIER® Wall Flashing**— 40 mil (1 mm) total thickness self-adhesive, cold applied tape consisting of 32 mils (0.8 mm) of rubberized asphalt integrally bonded to a 8 mil (0.2 mm) high density, cross laminated polyethylene film. The rolls are interwound with disposable silicone-coated release sheet
- **PERM-A-BARRIER® Primer Plus**— water-based vapor permeable primer used to facilitate tenacious adhesion of PERM-A-BARRIER® self-adhered membranes to the substrate
- **PERM-A-BARRIER® WB Primer**— high tack, water-based primer for use with PERM-A-BARRIER® Wall Flashing on cementitious and exterior gypsum wallboards
- **BITUTHENE® Primer B2 LVC**— low VOC solvent-based primer for green concrete or damp surfaces
- **PERM-A-BARRIER® Universal Flashing & Sealant** - one part moisture curing, STPE sealant for sealing penetrations, terminations, brick ties, final terminations & flashing application.
- **BITUTHENE® Mastic Trowel Grade**— rubberized asphalt mastic for sealing patches, terminations, brick ties, etc.
- **BITUTHENE® Liquid Membrane**— two component, trowel grade, asphalt modified urethane for sealing patches, terminations, brick ties, etc.

Installation

Safety

PERM-A-BARRIER® products must be handled properly. Vapors from the mastic and solvent-based primer are harmful and flammable. For these products, the best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Refer to product label and SDS (Safety Data Sheet) before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS before use. SDS can be obtained from our web site at gcpat.com or by contacting us toll free at 866-333-3SBM (3726).

Preparatory Work

Apply PERM-A-BARRIER® Wall Flashing and accessories only in fair weather when air and surface temperatures are above 25 °F (-4 °C).

Wherever wall flashing is to be applied, the surface must be smooth, clean, dry and free of voids, spalled areas, loose substrate, loose nails, sharp protrusions or other matter that will hinder the adhesion or uniformity of the wall flashing installation. Clean loose dust or dirt from the surface by wiping with a clean dry cloth or a brush.

Conditioning and Priming

Apply PERM-A-BARRIER® Primer Plus by air spray, brush or roller or apply PERM-A-BARRIER® WB Primer by brush or roller. Allow the primer to dry completely before application of the flashing. Drying times may vary depending upon temperature and humidity conditions. Refer to PERM-A-BARRIER® Primer Plus and PERM-A-BARRIER® WB Primer product data sheet for installation recommendations and Technical Letter 2, Substrate Preparation for Application of PERM-A-BARRIER® Products to Glass-Mat Faced Gypsum Sheathing for priming requirements on specific glass-mat faced sheathing products.

Flashing Application

Pre-cut PERM-A-BARRIER® Wall Flashing to easily handled lengths. Peel release paper from roll to expose rubberized asphalt and carefully position flashing against substrate. RIPCORDER®, a Split Release on Demand feature embedded in the membrane, also makes PERM-A-BARRIER® Wall Flashing easy to position in detailed areas. Press firmly into place with a steel hand roller or the back of a utility knife as soon as possible, fully adhering the flashing to the substrate to prevent water from migrating under the PERM-A-BARRIER® Wall Flashing. Form end dams at horizontal flashing terminations to prevent water entry. Overlap adjacent pieces 2 in. (51 mm) and roll overlap with a steel hand roller. Apply a bead of Universal Flashing & Sealant along all laps, seams, top edges, cuts, penetrations and trowel into place.

When applying PERM-A-BARRIER® Wall Flashing to PERM-A-BARRIER® Liquid, VP, VP LT or VPO, apply a bead of Universal Flashing & Sealant or BITUTHENE® Liquid Membrane along all laps, seams, top edges, cuts, penetrations and as shown in GCP detail drawings, and trowel into place. If PERM-A-BARRIER® Liquid is more than 7 days old, priming may be necessary. Refer to Technical Letter 11 for more information. Lay or trim edges of PERM-A-BARRIER® Wall Flashing 1/2 in. (13 mm) back from the face of the masonry. No reglet is necessary when installing PERM-A-BARRIER® Wall Flashing to vertical surfaces. Complete installation instructions and details are available upon request.

If wrinkles develop, carefully cut out affected area and replace in similar procedure outlined above. The repair piece must be pressed into place with a hand roller as soon as possible to ensure continuous and intimate contact with the substrate.

All non water shedding edges must be sealed with Universal Flashing & Sealant, BITUTHENE® Liquid Membrane or BITUTHENE® Mastic.

Protection—PERM-A-BARRIER® Wall Flashing must be protected from damage from other trades or construction materials.

Storage and Handling Information

All materials must be protected from rain and physical damage. Pallets of PERM-A-BARRIER® Aluminum Flashing must not be double stacked on the job site. Provide cover on top and all sides, allowing for adequate ventilation. Store membrane where temperatures will not exceed 90 °F (32 °C) for extended periods. All products must be stored in a dry area away from high heat, flames or sparks. Store only as much material at point of use as is required for each day's work.

Supply

	UNIT OF SALE	APPROXIMATE COVERAGE	WEIGHT	PALLETIZATION
PERM-A-BARRIER® Wall				
Flashing				
12 in. (305 mm)	3 rolls	75 linear ft per roll	22.5 lbs/roll	25 cartons (75 rolls) per pallet
18 in. (457 mm)	2 rolls	75 linear ft per roll	33.7 lbs/roll	25 cartons (50 rolls) per pallet
24 in. (610 mm)	1 roll	75 linear ft per roll	49.7 lbs/roll	35 cartons (35 rolls) per pallet
36 in. (914 mm)	1 roll	75 linear ft per roll	67.7 lbs/roll	25 cartons (25 rolls) per pallet
BITUTHENE® Mastic—5 gal pail	1 pail	approx. 120 ft ² at 60 mils	54 lbs/pail	36 pails per pallet
BITUTHENE® Mastic—30 oz tube	12 tubes	approx. 30 linear ft x 1/4 in. bead	32 lbs/carton	72 cartons (864 tubes) per pallet
PERM-A-BARRIER® Universal Flashing & Sealant—29 oz. Cartridge	1 cartridge	approx. 30 linear ft x 1/4 in. bead	29 oz. cartridge	10 cartridges/ carton 42 cartons/ pallet
BITUTHENE® Liquid Membrane—1.5 gal pail	1 pail	approx. 200 Linear ft/gal @ 1" wide x 90 mils.	16 lbs/pail	100 pails per pallet
BITUTHENE® Liquid Membrane—4 gal pail	1 pail	approx. 200 Linear ft/gal @ 1" wide x 90 mils.	44 lbs/pai	24 pails per pallet
PERM-A-BARRIER® Primer Plus—5 gal pail	1 pail	450–500 ft ² /gal (11–12 m ² /L)	43 lbs/pail	36 pails per pallet
PERM-A-BARRIER® WB Primer—5 gal pail	1 pail	250–350 ft ² /gal (6–8 m ² /L)	45 lbs/pail	32 pails per pallet

Physical Properties

	TYPICAL VALUE	TEST METHOD
Color	Green with repeated logo imprint	
Thickness	40 mil (1 mm)	ASTM D3767, method A
Low temperature flexibility	Unaffected at –45 °F (–43 °C)	ASTM D1970
Tensile strength, membrane	1200 psi (8300 kPa) minimum	ASTM D412, Die C modified
Elongation, ultimate failure of rubberized asphalt	200% minimum	ASTM D412
Lap adhesion at minimum application temperature	60 lbs/ft (875 N/m) width	ASTM D1876 modified
Adhesion to concrete at minimum application temperature	60 lbs/ft (875 N/m) width	ASTM D903
Puncture resistance, membrane	40 lbs (178 N) minimum MD 80 lbs (356 N) minimum MD	ASTM D781 ASTM E154

Tear resistance, initiation	13 lbs (58 N) minimum MD	ASTM D1004
Tear resistance, propagation	9 lbs (40 N) minimum MD	ASTM D1938
Permeance	0.05 perms (2.9 ng/m ² sPa) maximum	ASTM E96, method B
Water absorption	0.1% maximum	ASTM D570

Limitations

PERM-A-BARRIER® Wall Flashing must not be applied in areas where it will be exposed to sunlight permanently and must be covered within a reasonable amount of time, not to exceed 60 days. Refer to Technical Letter 19, *Exposure Guidelines for PERM-A-BARRIER® Self-Adhered Membranes*.

PERM-A-BARRIER® Wall Flashing and all other PERM-A-BARRIER® self-adhered membranes should not be applied over Universal Flashing & Sealant.

Warranty

PERM-A-BARRIER® products are warranted to be free of defects in manufacture for a period of 5 years. Material will be provided at no charge to replace any defective product.

Technical Service

Support is provided by full-time technically trained GCP field sales representatives and technical service personnel, backed by a central research and development technical services staff.

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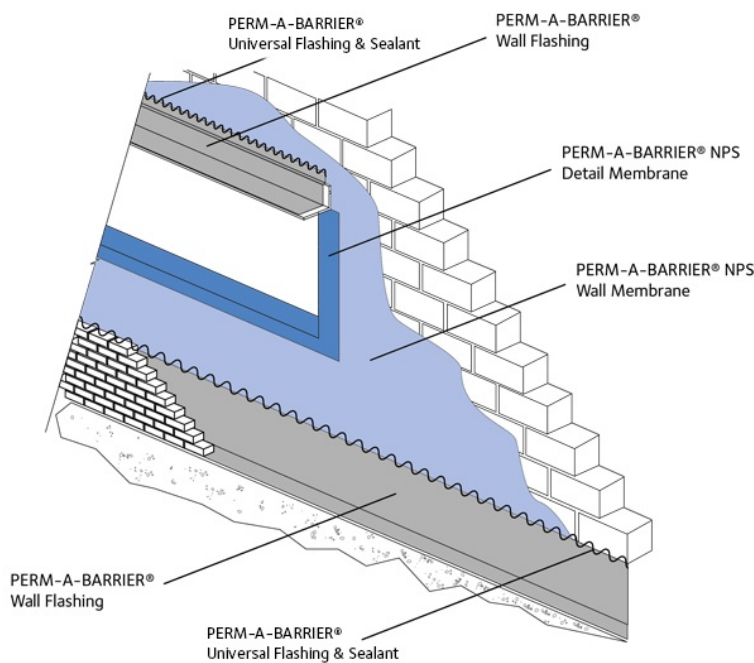
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PERM-A-BARRIER® NPS Detail Membrane Data Sheet

Primerless self-adhered detail membrane for air and vapor barrier applications

Product Description

GCP Applied Technologies (“GCP”) PERM-A-BARRIER® NPS Detail Membrane is specifically designed for protecting and sealing critical areas of the building superstructure from the damaging effects of the elements by minimizing air, water and water vapor flow through the building exterior at transition areas.



Typical Air and Vapor Barrier Application

Drawings are for illustration purposes only. Please refer to gcpat.com for specific application details.

Advantages

- Primerless self-adhered membrane—allows for reduction of installation time by up to 40%
- Fully bonded—helps transmit wind loads directly to the substrate
- Waterproof and impermeable to moisture—impermeable to the passage of liquid water and water vapor
- Air tight—specifically designed to protect against air passage and associated energy losses.
- Cross laminated film – provides dimensional stability, high tear strength, puncture and impact resistance
- Flexible—elongation test value of 200% accommodates minor settlement and shrinkage movement
- Controlled thickness—factory made sheet allows for consistent, non-variable site application
- Aggressive, conformable adhesive—can be used to help seal around mechanical fasteners
- Wide application window—primerless application at surface and ambient temperatures of 25 °F (-4 °C) and above.

System Components

PERM-A-BARRIER® NPS Detail Membrane is fully adhered and is designed for use with other GCP sheet and fluid applied membranes. For specific product use with other GCP membranes and fluids please refer to the individual Sheet and Fluid Applied Membrane product data sheet instructions found at “gcpat.com”

Other Ancillary Products Specific product information and product packaging details for all GCP products (including ancillary products) can be found at gcpat.com

- PERM-A-BARRIER® Adhesive – Adhesive for difficult to bond areas
- PERM-A-BARRIER® Primer Plus– water-based vapor permeable primer which imparts an aggressive, high tack finish on the treated substrate.
- PERM-A-BARRIER® Universal Flashing & Sealant – one part moisture curing, STPE sealant for sealing penetrations, terminations, brick ties, final terminations & flashing application.
- BITUTHENE® Mastic—rubberized asphalt mastic for sealing penetrations, terminations, brick ties, etc. as detailed in GCP Product Data Sheets
- BITUTHENE® Liquid Membrane—two component, trowel grade, asphalt modified urethane for sealing patches, terminations, brick ties, etc.

Limitations of use

- Approved uses only include those uses specifically detailed in this Product Data Sheet and other current Product Data Sheets that can be found at gcpat.com
- PERM-A-BARRIER® NPS Detail Membrane is not intended for any other use. Contact GCP Technical Services where any other use is anticipated or intended.
- Perm-A-Barrier NPS Detail Membrane must not be applied in areas where it will be exposed to direct sunlight permanently, and must be covered within 1 year of installation. Refer to Technical Letter 19, Exposure Guidelines for Perm-A-Barrier Self-Adhered Membranes.
- Maximum In Service Temperature (as installed) is 160°F (71°C)

Safety and Handling

- The most current Safety Data Sheet (SDS) can be obtained from our web site at gcpat.com or by contacting us toll free at 866-333-3SBM (3726).
- PERM-A-BARRIER® NPS Detail membrane – must be handled properly. The best available information on safe handling, storage, personal protection, health and environmental considerations has been gathered. Refer to product label and Safety Data Sheet before use. All users should acquaint themselves with this information prior to working with the material. Carefully read detailed precaution statements on the product labels and SDS before use.

Storage Information

- Pallets of PERM-A-BARRIER® NPS Detail Membrane must not be double stacked on the job site.
- All materials must be protected from rain and physical damage.
- Store off ground under tarps with adequate ventilation or otherwise protected from rain and ground moisture
- Store membrane where temperatures will not exceed 90°F (32°C) for extended periods.
- Store in dry conditions at 40°F (4.5°C)–90°F(32°C)

- Observe 1 year shelf life and use on a first in- first out basis
- Review technical letter #30 Shelf Life/Storage and Handling of GCP Waterproofing and Air Barrier Products
- Store only as much material at point of use as is required for each day's work.

Installation

Details and Technical Letters

The most up to date detail drawings and technical letters are available at gcpat.com. For complete application instructions, please refer to the current GCP Applied Technologies Contractor Handbook and Literature on (www.gcpat.com). Documents in hardcopy as well as information found on websites other than www.gcpat.com may be out of date or in error. Before using this product it is important that information be confirmed by accessing www.gcpat.com and reviewing the most recent product information, including without limitation Product Data Sheets and Contractor Manuals, Technical Bulletins, Detail Drawings and detailing recommendations. Please review all materials prior to installation of PERM-A-BARRIER® NPS Detail Membrane. For technical assistance with detailing and problem solving please call toll-free at (866) 333-3SBM (3726)

Temperature

- PERM-A-BARRIER® NPS Detail Membrane may be applied to most surfaces without primer only in dry weather and when air and surface temperatures are above 25 °F (-4 °C).
- Maximum in service temperature is 160 °F (71 °C)

Substrate Preparation

Surface must be smooth, clean, dry and free of voids, spalled areas, loose aggregate, loose nails, sharp protrusions or other matter that will hinder the adhesion or regularity of the membrane installation. Clean loose dust or dirt from the surface to which the membrane is to be applied by wiping with a clean, dry cloth or brush. It is best practice to first apply primer onto any gypsum sheathing cut edges that will receive PERM-A-BARRIER® NPS Detail Membrane to help reduce dust that may impact adhesion. In cold temperature installations do not apply over ice or frost.

Application

- Pre-cut PERM-A-BARRIER® NPS Detail Membrane to easily handled lengths. Peel release paper from roll to expose adhesive and carefully position the membrane against substrate. The entirety of the membrane must be pressed firmly into place with sufficient pressure using a rubber or vinyl hand roller during application to ensure continuous and intimate contact with the substrate and to prevent water from migrating under the membrane. Overlap adjacent pieces 2 in. (51 mm) and roll overlap with a steel hand roller.
- When applying PERM-A-BARRIER® NPS Detail Membrane to PERM-A-BARRIER® Wall Membranes and PERM-A-BARRIER® Wall Flashing – Apply a bead of Universal Flashing & Sealant, BITUTHENE® Mastic or BITUTHENE® Liquid Membrane along top edges of cuts, penetrations, all laps and seams on horizontal surfaces (e.g. sill plates), critical areas and as shown in GCP detail drawings, and tool into place.
- When applying PERM-A-BARRIER® NPS Detail Membrane to PERM-A-BARRIER® Liquid, PERM-A-BARRIER® NPL 10/NPL 10 LT, PERM-A-BARRIER® VPL, PERM-A-BARRIER® VPL Low Temp or PERM-A-BARRIER® VPO – Apply a bead of Universal Flashing & Sealant or BITUTHENE® Liquid Membrane along top edges, cuts, penetrations, all laps and seams on horizontal surfaces (e.g. sill plates), critical areas and as shown in GCP detail drawings, and trowel into place.
- If PERM-A-BARRIER® fluid applied membranes are more than 7 days old, contact GCP technical service for guidance. Refer to Technical Letter #11 for more information specific to PERM-A-BARRIER® Liquid.
- No reglet is necessary when installing PERM-A-BARRIER® NPS Detail Membrane to vertical surfaces
- All non-water shedding edges must be sealed with Universal Flashing & Sealant, Bituthene Liquid Membrane or Bituthene Mastic.

Membrane Repairs

- Repairs must be made using PERM-A-BARRIER® NPS Detail Membrane sized to extend 6 in. (150 mm) in all directions from the perimeter of the affected area.
- If wrinkles develop, carefully cut out affected area and replace
- The entirety of the membrane patch must be pressed firmly into place with sufficient pressure using a rubber or vinyl hand roller during application to ensure continuous and intimate contact with the substrate and to prevent water from migrating under the membrane.

Membrane Protection

- PERM-A-BARRIER® NPS Detail Membrane must be protected from damage by other trades or construction materials.

Supply

PRODUCT	UNIT OF SALE	APPROXIMATE COVERAGE	WEIGHT	PALLETIZATION
PERM-A-BARRIER® NPS Detail Membrane				
- 6 in. (152 mm)	12 rolls	109 linear ft per roll	7 lbs/roll	30 cartons (360 rolls) per pallet
- 9 in. (225 mm)	6 rolls	109 linear ft per roll	10 lbs/roll	30 cartons (180 rolls) per pallet

- 12 in. (305 mm)	6 rolls	109 linear ft per roll	13 lbs/roll	30 cartons (180 rolls) per pallet
- 18 in. (455 mm)	2 rolls	109 linear ft per roll	21 lbs/roll	25 carton (50 rolls) per pallet

The most current supply information for ancillary products can be found at gcpat.com

Physical Properties

PROPERTY	PERM-A-BARRIER NPS DETAIL MEMBRANE	TEST METHOD
Thickness includes HDPE Film	0.018 in. (0.46 mm)	ASTM D3767 method A
Minimum tensile strength, membrane	400 psi (2.8 MPa)	ASTM D412
Minimum tensile strength, film	5000PSI (34.5 MPa)	ASTM D412
Minimum elongation, to failure	200%	ASTM D412
Pliability, at 180° bend over 1 in. (25 mm) mandrel	Pass at -20°F (-29°C)	ASTM D1970
Crack cycling, 1/8 in. (3.2 mm) at -25°F (-32°C)	Pass	ASTM C1305
Nail Sealability	Pass	ASTM D1970
Minimum puncture resistance, membrane	40 lbs. (178 N)	ASTM E154
Lap peel adhesion at minimum application temperature	3.5 lbs./in.	ASTM D1876
Maximum permeance to water vapor transmission	<0.01 perms / 0.02 perms	ASTM E96 Method A/ Method B
Water absorption (weight gain at 48 hours)	0.1%	ASTM D570
Peel Adhesion to Gypsum board	>5 pli.	ASTM D903
Peel adhesion: to concrete	>5 pli	ASTM D903
Maximum In Service Temperature	160°F (71°C)	NA

gcpat.com | North America Customer Service: 1-866-333-3SBM (3726).

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Last Updated: 2022-12-09

gcpat.com/solutions/products/perm-a-barrier-nps-air-barrier/perm-a-barrier-nps-detail-membrane

PERM-A-BARRIER® Adhesive Primer Data Sheet

[Contact an Air Barrier Specialist today](#)

Product Description

PERM-A-BARRIER® Adhesive Primer imparts an aggressive, high tack finish on the treated substrate. It is specifically designed to facilitate tenacious adhesion of PERM-A-BARRIER® self-adhered membranes to various substrates including plywood, oriented strand board (OSB), concrete masonry units (CMU) and glass faced wall boards.

Product Advantages

- Excellent adhesion—bonds to substrate and remains permanently pressure sensitive
- Aggressive tack—provides a tenacious bond to substrates such as plywood, OSB, CMU and glass faced wall boards
- Fast drying—increased flexibility for application schedule
- Fast and easy application—by brush or roller
- Low temperature—can be applied at 20 °F (–6 °C)
- VOC compliant—meets SCAQMD regulations

Use

PERM-A-BARRIER® Adhesive Primer can be used at 20 °F (–6 °C) or above.

Availability

PERM-A-BARRIER® Adhesive Primer is available in 5 gallon pails.

Installation

Safety, Storage and Handling Information

PERM-A-BARRIER® Adhesive Primer is flammable in the wet state. Material Safety Data Sheets (MSDS) are available and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the MSDS before use.

- The VOC (Volatile Organic Compound) content is 135 g/L EPA method 24.
- Best storage temperature is 40–80 °F (4–27 °C). Lower temperatures can cause increased viscosity of a temporary nature. Rotate stock on a “first in, first out” basis.
- When stored at recommended temperature in the original, unopened container, this product has a shelf life of 12 months from date of shipment.
- Do not apply on EPS/XPS insulation board.
- Use solvent resistant brushes and rollers.

- Keep work area well ventilated.
- Low flash point product. To minimize risk of fire, implement best practices to use only one open container per area.
- Keep away from open flame, sparks, and ignition sources.

Surface Preparation

All surfaces must be free from frost, dirt, grease, oil or other contaminants. Failure to remove excessive dust may result in compromised adhesion of the membrane to the building envelope.

Application

Apply PERM-A-BARRIER® Adhesive Primer in dry weather with ambient and substrate temperatures above 20 °F (-6 °C). Surface must be dry and clean. PERM-A-BARRIER® Adhesive Primer can be applied by brush or roller. Typical brushes and rollers designed for use with latex paints may be used. Only prime areas in which the membrane can be applied the same day.

Coverage

Approximately 250–300 ft²/gal (23–28 m²/L) on glass-mat faced gypsum sheathing such as DensGlass®Gold. Coverage rates may vary depending on substrate type, brand and roughness. Lower coverage per gallon will result in lower permeability. Do not apply more than one coat. For technical assistance, please contact your local GCP Representative.

Drying

Allow PERM-A-BARRIER® Adhesive Primer to dry until surface becomes tacky. Drying times may vary depending on temperature and humidity conditions. The product is packaged “ready to use.” Do not use any substance to thin this product. Apply membrane after primer is dried but surface is still tacky. Do not over prime or do not apply multiple coats.

Cleanup

Wet PERM-A-BARRIER® Adhesive Primer may be removed using mineral spirits. For dry adhesive, citrus based cleaners may be used.

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Last Updated: 2022-09-20

gcpat.com/solutions/products/perm-a-barrier-air-barrier-system/perm-a-barrier-adhesive-primer

PERM-A-BARRIER® WB Primer Data Sheet

Water-based primer for use with Perm-A-Barrier Flashings, Detail Membrane and Wall Membrane

Product Description

PERM-A-BARRIER® WB Primer is a water-based primer which imparts an aggressive, high tack finish on the treated substrate. It is specifically designed to facilitate tenacious adhesion of PERM-A-BARRIER® Flashings, PERM-A-BARRIER® Detail Membrane and PERM-A-BARRIER® Wall Membrane to various substrate including glass-mat faced gypsum sheathing. Refer to Technical Letter 2, Substrate Preparation for Application of PERM-A-BARRIER® Products to Glass-Mat Faced Gypsum Sheathing for priming requirements on specific glass-mat faced sheathing products.

Product Advantages

- **Excellent adhesion**—bonds to substrate and binds dust
- **Aggressive tack**—provides a tenacious bond to difficult substrates such as DensGlass Gold and other glass faced wall boards
- **Fast drying**—increased flexibility for application schedule
- **Fast and easy application**—by brush or roller
- **VOC compliant**—water-based, contains no hazardous or flammable solvents
- **Low odor**—no noxious fumes

Use

PERM-A-BARRIER® WB Primer can be used at 25 °F (-4 °C) or above. It will freeze at 21 °F (-7 °C) and can no longer be used after it freezes.

Availability

PERM-A-BARRIER® WB Primer is available in 1 gallon jugs and 5 gallon plastic pails.

Installation

Safety, Storage and Handling Information

PERM-A-BARRIER® WB Primer is nonflammable. SDS (Safety Data Sheet) are available at gcpat.com and users should acquaint themselves with this information. Carefully read detailed precaution statements on product labels and the SDS before use.

Store above freezing 32 °F (0 °C).

The VOC (Volatile Organic Compound) content is 10 g/L and it meets the U.S. EPA Volatile Organic Compound Emission Standard for Architectural Coatings.

Architectural and industrial maintenance regulations limit the VOC content in products classified as architectural coatings. Refer to Technical Letters at gcpat.com for the most current list of allowable limits.

Application

Apply primer in dry weather with ambient and substrate temperatures above 25 °F (-4 °C). Surface must be dry and clean.

Surface Preparation

All surfaces must be free from frost, dirt, grease, oil or other contaminants. Failure to remove excessive dust may result in compromised adhesion of the membrane.

In cooler or humid conditions, priming may be done in advance. If primed surface is exposed for more than 7 days, or if significant dust or dirt accumulates on the surface, re-prime with a thin coat of PERM-A-BARRIER® WB Primer.

Roller Technique

Synthetic, 1/2 in. (13 mm), nap rollers have been found to be very successful for the application of PERM-A-BARRIER® WB Primer. A moderately thick coating should be applied and rolled out evenly (see coverage below). A properly applied coating will have uniform coverage and leave a tacky finish to the surface when dry.

Coverage

250–350 ft² /gal (6.0–8.0 m² /L)

Drying Time

To be effective, the PERM-A-BARRIER® WB Primer needs to fully dry. Drying time of the material is dependent upon many factors including temperature, humidity, wind, sunlight and coverage rate. The drying time could vary from as little as 15 min. (warm and windy) to 3 hours (cold and no wind), depending upon the weather condition. The following are guidelines for dry time at various temperatures:

- 90 °F (32 °C) or greater: 45 min.–1 hr
- 50 °F (10 °C) to 90 °F (32 °C): 1–3 hrs
- Less than 50 °F (10 °C): 3 hrs +

The product is packaged “ready to use.” Do not use any substance to thin this product.

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Last Updated: 2022-12-08

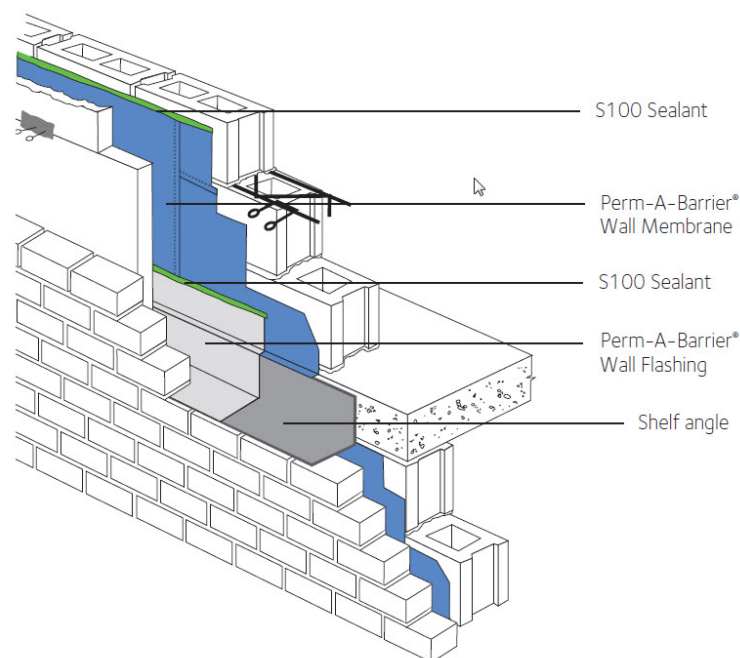
gcpat.com/solutions/products/perm-a-barrier-air-barrier-system/perm-a-barrier-wb-primer

PERM-A-BARRIER® S100 Sealant Data Sheet

PERM-A-BARRIER® S100 sealant is designed for a variety of uses with GCP Applied Technologies' air and weather barrier systems.

Product Description

PERM-A-BARRIER® S100 sealant is designed for a variety of uses with GCP Applied Technologies' air and weather barrier systems.



Uses

S100 Sealant is ideally suited for the following uses:

- Sealing of finished terminations, edges of patches and overlaps in detail areas
- Sealing penetrations through GCP air and weather barrier systems, such as plumbing or ductwork
- As a sheathing joint treatment for GCP fluid-applied air and weather barrier membranes
- For sealing between window flanges and the air and weather barrier system.

Product Advantages

- **No primer**—fast and easy application with minimum surface preparation
- **No staining or residue rundown**
- **High movement capability**
- **Adhesion**—Strong adhesion to common construction substrates, such as wood, block, concrete, OSB, glass mat sheathing, metal, vinyl and PVC
- **Compatibility**—Compatible with most GCP air and weather barrier systems

Application Procedures

Safety, Storage and Handling Information

Read and understand the product label and Safety Data Sheet (SDS) for each system component. All users should acquaint themselves with this information prior to working with the products and follow the precautionary statements. SDSs can be obtained by contacting your local GCP representative or office, by calling GCP toll free at 1-866-333-3SBM (3726) and in some cases from our web site at gcpat.com.

S100 Sealant is available in two different sizes 20 fl oz (0.591 L) sausages and 29 fl oz (0.858L) cartridges. S100 Sealant has a shelf life of 12 months from the date of manufacture when stored in the original unopened sausages between 40°F (4°C) and 80°F (27°C).

The Volatile Organic Compound (VOC) content is <30 g/L.

Surface Preparation

All surfaces must be clean, dry and free from dirt, grease oil, dust or other contaminants. S100 Sealant may be applied at temperatures above 20°F (-6.67°C) and above.

Product Application

Apply S100 Sealant with a caulking or sausage gun. When used as a seal for finished terminations, edges of patches and overlaps in detail areas, level the bead with a trowel to a minimum 0.125 in. (3 mm) thickness and 0.5 in. (13 mm) to 1 in. (25 mm) width.

When sealing penetrations, apply a 1 in. (25 mm) fillet to the base of the penetration and overlap onto the GCP air and weather barrier material and penetrant a minimum of 2.5 in. (64 mm).

When used to treat sheathing joints for GCP fluid-applied air and weather barrier membranes, completely fill the sheathing joint with sealant and then install a scratch coat of sealant with a margin trowel or similar onto the face of the sheathing approximately 1 in. (25 mm) on each side of the sheathing joint. Once the sealant is tack free, the fluid applied membrane may be applied, refer to the applicable product data sheets for detailed application instructions.

Cleaning

Clean tools and equipment with mineral spirits. Mineral spirits is a combustible liquid and should be used only in accordance with the mineral spirits manufacturer's safety recommendations. Do not use solvents to clean hands or skin.

Limitations

S100 Sealant should not be used in the following applications:

- Below grade
- End of day terminations
- Under GCP air and weather barrier membranes and flashing, except when used as a joint treatment for GCP fluid-applied membranes.
- Not for use with building materials that bleed oils, plasticizers or solvents
- Firestopping applications

Supply

S100 SEALANT	
Unit size	20 fl oz (0.591 L) sausage
Packaging	12 cartridges/carton; 48 cartons/pallet
SAP#	114175

Physical Properties

PROPERTY	
Color	Green
Tack Free Time	1-2 hours
Cure Time	7-14 days*
Full Adhesion	7-14 days*

Typical cured properties after 7 days cure at 77°F (25°C), 50% R.H.

	TYPICAL VALUE	TEST METHOD
Hardness (Shore A)	>15	ASTM C661
Elongation	>500%	ASTM D412
Ultimate Tensile Strength	120 psi	ASTM D412
Modulus @ 100% Elongation	30 psi	ASTM D412
Elastomeric Joint Sealants	Class 25	ASTM C920

*Curing and full adhesion time will vary depending on temperature and humidity

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Last Updated: 2022-12-09

gcpat.com/solutions/products/perm-a-barrier-air-barrier-system/perm-a-barrier-s100-sealant

1 Identification

Product identifier

Trade name: ***Perm-A-Barrier VPS 30***

SDS ID Number: 912

Relevant identified uses of the substance or mixture, and uses advised against:

Waterproofing.

Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

Additional information:

SDS's are not required for finished articles. nevertheless, the following information is provided to assist with safe use.

Label elements:

Hazard pictograms Not applicable.

Not applicable.

Hazard statements Not applicable.

NFPA ratings (scale 0 - 4)



Health = 1
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 1
Flammability = 1
Reactivity = 0

Other hazards Contact with residue from adhesive may cause eye and skin irritation.

(Cont. on page 2)

USGHS

Safety Data Sheet

Printing date 05/28/2019

Version Number 1.0

Reviewed on 05/28/2019

Trade name: *Perm-A-Barrier VPS 30*

(Cont. from page 1)

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterization: Mixture****Hazardous components:** Not applicable.**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.**4 First-aid measures****Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:** No special measures required.**After skin contact:** If skin irritation occurs, consult a doctor.**After eye contact:**

Rinse cautiously with water for several minutes.

If symptoms persist, consult a physician.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:**Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.**5 Fire-fighting measures****Special hazards arising from the substance or mixture** No further relevant information available.**Advice for firefighters****Protective equipment:** Wear personal protective equipment.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up: Pick up mechanically.**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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Trade name: *Perm-A-Barrier VPS 30*

(Cont. from page 2)

See Section 13 for disposal information.

* **7 Handling and storage****Handling:****Precautions for safe handling**

Wash thoroughly after handling.

Avoid eye and skin contact with residue from adhesive.

Release liners are slippery. Remove from work area immediately after membrane application.

Membrane is slippery when wet or covered with frost.

Release liners may cause slip and trip hazards.

Do not eat, drink or smoke when using this product.

Wash skin after handling.

For professional use only. Keep out of children's reach.

Information about protection against explosions and fires:

Removal of release liner may generate a static electrical discharge (spark).

Conditions for safe storage, including any incompatibilities**Storage:****Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.* **8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Material of gloves**

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Rubber or other impervious gloves should be worn to prevent skin contact.

(Cont. on page 4)

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Trade name: *Perm-A-Barrier VPS 30*

(Cont. from page 3)

Eye protection:

Safety glasses with side shield protection.

Body protection: Use personal protective equipment as required.* **9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value (~): Not applicable.**Change in condition**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.

Flammability (solid, gaseous): Not determined.
Not applicable.**Ignition temperature:** Undetermined.

Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure:	Not applicable.
Density: (~) at 20 °C (68 °F)	1 g/cm ³ (8.3 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.

Solubility in / Miscibility with Water: Insoluble.**Partition coefficient (n-octanol/water):** Not determined.**Viscosity:**

Dynamic:	Not applicable.
Kinematic:	Not applicable.
Molecular weight	Not applicable.

Other information No further relevant information available.* **10 Stability and reactivity****Reactivity**Stable under normal conditions.
No further relevant information available.

(Cont. on page 5)

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Printing date 05/28/2019

Version Number 1.0

Reviewed on 05/28/2019

Trade name: *Perm-A-Barrier VPS 30*

(Cont. from page 4)

Chemical stability**Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions**

No dangerous reactions known.

No further relevant information available.

Conditions to avoid No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

*

11 Toxicological information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:****on the skin:** No irritating effect expected**on the eye:** No irritating effect expected**inhalation:** No irritating effect expected**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:****Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

None of the ingredients are listed.

NTP (National Toxicology Program)**K-Known to be carcinogenic, R-May reasonably be anticipated to be carcinogenic**

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients are listed.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

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(Cont. on page 6)

Safety Data Sheet

Printing date 05/28/2019

Version Number 1.0

Reviewed on 05/28/2019

Trade name: *Perm-A-Barrier VPS 30*

(Cont. from page 5)

* 13 Disposal considerations

Disposal methods:**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.

* 14 Transport information

UN-Number

DOT, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:

Marine pollutant:

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.

DOT

Remarks:

Not Regulated.

* 15 Regulatory information

SARA (Superfund Amendments and Reauthorization Act)**Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: None**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

Non Hazardous / Non Regulated Components

Non-hazardous ingredients

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Reviewed on 05/28/2019

Trade name: *Perm-A-Barrier VPS 30*

(Cont. from page 6)

California Proposition 65: (Substances <0.1% unless noted in Section 3)**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Carcinogenicity Categories**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients are listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414

The first date of preparation 05/28/2019**Number of revision times and the latest revision date** 1.0 / 05/28/2019

USGHS

1 Identification

Product identifier

Trade name: ***Perm-A-Barrier Aluminum Flashing***

SDS ID Number: 2763

Relevant identified uses of the substance or mixture, and uses advised against

Waterproofing.

Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

GCP Canada, Inc.

294 Clements Road W.

Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts

CAN: 1-905-683-8561 (24 hours)

Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

Additional information:

SDS's are not required for finished articles. nevertheless, the following information is provided to assist with safe use.

Label elements:

Hazard pictograms Not applicable.

Not applicable.

Hazard statements Not applicable.

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 1

Flammability = 0

Reactivity = 0

Other hazards Contact with residue from adhesive may cause eye and skin irritation.

Results of PBT and vPvB assessment

PBT: Not applicable.

Safety Data Sheet

Printing date 12/21/2016

Version Number 1.0

Reviewed on 12/21/2016

Trade name: *Perm-A-Barrier Aluminum Flashing*

(Cont. from page 1)

vPvB: Not applicable.

* **3 Composition/information on ingredients****Chemical characterization: Mixture****Hazardous components:** Not applicable.**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.* **4 First-aid measures****Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:** No special measures required.**After skin contact:** If skin irritation occurs, consult a doctor.**After eye contact:**

Rinse cautiously with water for several minutes.

If symptoms persist, consult a physician.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:**Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.* **5 Fire-fighting measures****Special hazards arising from the substance or mixture** No further relevant information available.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.* **6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up: Pick up mechanically.**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **7 Handling and storage****Handling:****Precautions for safe handling**

Avoid eye and skin contact with residue from adhesive.

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Safety Data Sheet

Printing date 12/21/2016

Version Number 1.0

Reviewed on 12/21/2016

Trade name: *Perm-A-Barrier Aluminum Flashing*

(Cont. from page 2)

Wash thoroughly after handling.

Wash skin after handling.

Release liners are slippery. Remove from work area immediately after membrane application.

Membrane is slippery when wet or covered with frost.

Release liners may cause slip and trip hazards.

Do not eat, drink or smoke when using this product.

For professional use only. Keep out of children's reach.

Information about protection against explosions and fires:

Removal of release liner may generate a static electrical discharge (spark).

Conditions for safe storage, including any incompatibilities**Storage:****Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Material of gloves** Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Eye protection:**

Safety glasses with side shield protection.

Body protection: Use personal protective equipment as required.

USGHS

(Cont. on page 4)

Safety Data Sheet

Printing date 12/21/2016

Version Number 1.0

Reviewed on 12/21/2016

Trade name: *Perm-A-Barrier Aluminum Flashing*

(Cont. from page 3)

* 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid
 Color: According to product specification
 Odor: Characteristic
 Odor threshold: Not determined.

pH-value (~): Not applicable.

Change in condition

Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: Undetermined.
 Flash point: Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Decomposition temperature: Not determined.
 Auto igniting: Not determined.
 Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: Not determined.
 Upper: Not determined.
 VOC Content (max): Not determined.

Vapor pressure: Not applicable.
 Density (~): 1,1 LBS/CF
 Relative density: Not determined.
 Vapor density: Not applicable.
 Evaporation rate: Not applicable.

Solubility in / Miscibility with
 Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable.
 Kinematic: Not applicable.
 Molecular weight: Not applicable.

Other information No further relevant information available.

* 10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.USGHS
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Safety Data Sheet

Printing date 12/21/2016

Version Number 1.0

Reviewed on 12/21/2016

Trade name: *Perm-A-Barrier Aluminum Flashing*

(Cont. from page 4)

* 11 Toxicological information

Information on toxicological effects**Acute toxicity:****Primary irritant effect:****on the skin:** No irritating effect expected**on the eye:** No irritating effect expected**inhalation:** No irritating effect expected**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

None of the ingredients is listed.

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

* 12 Ecological information

Toxicity**Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

* 13 Disposal considerations

Waste treatment methods Comply with Federal, State and local regulations.**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Safety Data Sheet

Printing date 12/21/2016

Version Number 1.0

Reviewed on 12/21/2016

Trade name: *Perm-A-Barrier Aluminum Flashing*

(Cont. from page 5)

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.**14 Transport information****UN-Number**

DOT, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.**DOT****Remarks:**

Not Regulated.

UN "Model Regulation":

Not applicable.

15 Regulatory information**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: None**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65**Chemicals known to cause cancer:**

Extracts (petroleum), heavy paraffinic distillate solvent

Polycyclic Aromatic Hydrocarbons

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

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Safety Data Sheet

Printing date 12/21/2016

Version Number 1.0

Reviewed on 12/21/2016

Trade name: *Perm-A-Barrier Aluminum Flashing*

(Cont. from page 6)

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 12/21/2016 / -**The first date of preparation** 12/21/2016**Number of revision times and the latest revision date** 1.0 / 12/21/2016

USGHS

1 Identification

Product identifier

Trade name: ***Perm-A-Barrier Wall Flashing***

SDS ID Number: 2757

Relevant identified uses of the substance or mixture, and uses advised against

Waterproofing.

Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

GCP Canada, Inc.

294 Clements Road W.

Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts

CAN: 1-905-683-8561 (24 hours)

Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified according to the Globally Harmonized System (GHS).

Additional information:

SDS's are not required for finished articles. nevertheless, the following information is provided to assist with safe use.

Label elements:

Hazard pictograms Not applicable.

Not applicable.

Hazard statements Not applicable.

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 1

Flammability = 0

Reactivity = 0

Other hazards Contact with residue from adhesive may cause eye and skin irritation.

Results of PBT and vPvB assessment

PBT: Not applicable.

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Printing date 12/06/2016

Version Number 1.0

Reviewed on 12/06/2016

Trade name: *Perm-A-Barrier Wall Flashing*

(Cont. from page 1)

vPvB: Not applicable.

* **3 Composition/information on ingredients****Chemical characterization: Mixture****Hazardous components:** Not applicable.**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.* **4 First-aid measures****Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:** No special measures required.**After skin contact:** If skin irritation occurs, consult a doctor.**After eye contact:**

Rinse cautiously with water for several minutes.

If symptoms persist, consult a physician.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:**Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.**5 Fire-fighting measures****Special hazards arising from the substance or mixture** No further relevant information available.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.* **6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up: Pick up mechanically.**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **7 Handling and storage****Handling:****Precautions for safe handling**

Avoid eye and skin contact with residue from adhesive.

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Safety Data Sheet

Printing date 12/06/2016

Version Number 1.0

Reviewed on 12/06/2016

Trade name: *Perm-A-Barrier Wall Flashing*

(Cont. from page 2)

Wash thoroughly after handling.

Wash skin after handling.

Release liners are slippery. Remove from work area immediately after membrane application.

Membrane is slippery when wet or covered with frost.

Release liners may cause slip and trip hazards.

Do not eat, drink or smoke when using this product.

For professional use only. Keep out of children's reach.

Information about protection against explosions and fires:

Removal of release liner may generate a static electrical discharge (spark).

Conditions for safe storage, including any incompatibilities**Storage:****Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.

*

8 Exposure controls/personal protection**Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Material of gloves** Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Eye protection:**

Safety glasses with side shield protection.

Body protection: Use personal protective equipment as required.USGHS
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Safety Data Sheet

Printing date 12/06/2016

Version Number 1.0

Reviewed on 12/06/2016

Trade name: *Perm-A-Barrier Wall Flashing*

(Cont. from page 3)

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value (~): Not applicable.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Decomposition temperature:	Not determined.
Auto igniting:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure:	Not applicable.
Density: (~)	1,1 LBS/CF
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.

Solubility in / Miscibility with Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.
Molecular weight	Not applicable.

Other information No further relevant information available.

10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid No further relevant information available.

Incompatible materials: No further relevant information available.

Hazardous decomposition products: Carbon monoxide and carbon dioxide

Additional information: See section 7 for information on handling, storage and conditions to be avoided.

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Safety Data Sheet

Printing date 12/06/2016

Version Number 1.0

Reviewed on 12/06/2016

Trade name: *Perm-A-Barrier Wall Flashing*

(Cont. from page 4)

* 11 Toxicological information

Information on toxicological effects**Acute toxicity:****Primary irritant effect:****on the skin:** No irritating effect expected**on the eye:** No irritating effect expected**inhalation:** No irritating effect expected**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

None of the ingredients is listed.

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

* 12 Ecological information

Toxicity**Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

* 13 Disposal considerations

Waste treatment methods Comply with Federal, State and local regulations.**Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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Safety Data Sheet

Printing date 12/06/2016

Version Number 1.0

Reviewed on 12/06/2016

Trade name: *Perm-A-Barrier Wall Flashing*

(Cont. from page 5)

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.* **14 Transport information****UN-Number**

DOT, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.**DOT****Remarks:**

Not Regulated.

UN "Model Regulation":

Not applicable.

* **15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: None**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65**Chemicals known to cause cancer:**

Extracts (petroleum), heavy paraffinic distillate solvent

Polycyclic Aromatic Hydrocarbons

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Cont. on page 7)

USGHS

Safety Data Sheet

Printing date 12/06/2016

Version Number 1.0

Reviewed on 12/06/2016

Trade name: *Perm-A-Barrier Wall Flashing*

(Cont. from page 6)

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)**Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 12/06/2016 / -**The first date of preparation** 12/05/2016**Number of revision times and the latest revision date** 1.0 / 12/06/2016

USGHS

1 Identification

Product identifier

Trade name: Perm A Barrier NPS Detail Membrane

SDS ID Number: 2916

Relevant identified uses of the substance or mixture, and uses advised against:

Waterproofing.

Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

GCP Canada, Inc.

294 Clements Road W.

Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts

CAN: 1-905-683-8561 (24 hours)

Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

Additional information:

SDS's are not required for finished articles. nevertheless, the following information is provided to assist with safe use.

Label elements:

Hazard pictograms Not applicable.

Not applicable.

Hazard statements Not applicable.

NFPA ratings (scale 0 - 4)



Health = 1

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)



HEALTH 1 Health = 1

FIRE 0 Flammability = 0

REACTIVITY 0 Reactivity = 0

Other hazards Contact with residue from adhesive may cause eye and skin irritation.

Results of PBT and vPvB assessment

PBT: Not applicable.

Safety Data Sheet

Printing date 05/30/2018

Version Number 1.0

Reviewed on 05/30/2018

Trade name: *Perm A Barrier NPS Detail Membrane*

(Cont. from page 1)

vPvB: Not applicable.

* **3 Composition/information on ingredients****Chemical characterization: Mixture****Hazardous components:** Not applicable.**Additional information:** Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.* **4 First-aid measures****Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:** No special measures required.**After skin contact:** If skin irritation occurs, consult a doctor.**After eye contact:**

Rinse cautiously with water for several minutes.

If symptoms persist, consult a physician.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Information for doctor:**Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.**5 Fire-fighting measures****Special hazards arising from the substance or mixture** No further relevant information available.**Additional information** Collect contaminated fire fighting water separately. It must not enter the sewage system.* **6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up: Pick up mechanically.**Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* **7 Handling and storage****Handling:****Precautions for safe handling**

Avoid eye and skin contact with residue from adhesive.

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Safety Data Sheet

Printing date 05/30/2018

Version Number 1.0

Reviewed on 05/30/2018

Trade name: *Perm A Barrier NPS Detail Membrane*

(Cont. from page 2)

Wash thoroughly after handling.

Wash skin after handling.

Release liners are slippery. Remove from work area immediately after membrane application.

Membrane is slippery when wet or covered with frost.

Release liners may cause slip and trip hazards.

Do not eat, drink or smoke when using this product.

For professional use only. Keep out of children's reach.

Information about protection against explosions and fires:

Removal of release liner may generate a static electrical discharge (spark).

Conditions for safe storage, including any incompatibilities**Storage:****Information about storage in one common storage facility:** No special measures required.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Material of gloves** Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.**Eye protection:**

Safety glasses with side shield protection.

Body protection: Use personal protective equipment as required.

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(Cont. on page 4)

Safety Data Sheet

Printing date 05/30/2018

Version Number 1.0

Reviewed on 05/30/2018

Trade name: *Perm A Barrier NPS Detail Membrane*

(Cont. from page 3)

* 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value (~): Not applicable.

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.

Flammability (solid, gaseous): Product is not flammable.

Ignition temperature: Undetermined.

Decomposition temperature: Not determined.

Auto igniting: Not determined.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.

Vapor pressure: Not applicable.

Density: (~) 1.1 LBS/CF

Relative density: Not determined.

Vapor density: Not applicable.

Evaporation rate: Not applicable.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

Dynamic: Not applicable.

Kinematic: Not applicable.

Molecular weight: Not applicable.

Other information

No further relevant information available.

* 10 Stability and reactivity

Reactivity Stable under normal conditions.

Chemical stability

Thermal decomposition: No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.

USGHS

(Cont. on page 5)

Safety Data Sheet

Printing date 05/30/2018

Version Number 1.0

Reviewed on 05/30/2018

Trade name: *Perm A Barrier NPS Detail Membrane*

(Cont. from page 4)

* 11 Toxicological information

Information on toxicological effects**Acute toxicity:****Primary irritant effect:****on the skin:** No irritating effect expected**on the eye:** No irritating effect expected**inhalation:** No irritating effect expected**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

None of the ingredients is listed.

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

* 12 Ecological information

Toxicity**Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

* 13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Cont. on page 6)

USGHS

Safety Data Sheet

Printing date 05/30/2018

Version Number 1.0

Reviewed on 05/30/2018

Trade name: *Perm A Barrier NPS Detail Membrane*

(Cont. from page 5)

Uncleaned packagings:**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.* **14 Transport information****UN-Number**

DOT, IMDG, IATA

Not applicable.

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.**DOT****Remarks:**

Not Regulated.

UN "Model Regulation":

Not applicable.

* **15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: None**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65: (Substances <0.1% unless noted in Section 3)**Chemicals known to cause cancer:**

Extracts (petroleum), heavy paraffinic distillate solvent

Polycyclic Aromatic Hydrocarbons

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Cont. on page 7)

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Safety Data Sheet

Printing date 05/30/2018

Version Number 1.0

Reviewed on 05/30/2018

Trade name: *Perm A Barrier NPS Detail Membrane*

(Cont. from page 6)

Carcinogenicity Categories**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414

Date of preparation / last revision 05/30/2018 / -**The first date of preparation** 05/30/2018**Number of revision times and the latest revision date** 1.0 / 05/30/2018

USGHS

1 Identification

Product identifier

Trade name: ***Perm-A-Barrier Adhesive Primer***

SDS ID Number: 2567

Relevant identified uses of the substance or mixture, and uses advised against:
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Highly flammable liquid and vapor.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
May be fatal if swallowed and enters airways.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms



GHS02 GHS07 GHS08

Danger

Hazard statements

Highly flammable liquid and vapor.

Safety Data Sheet

Printing date 03/28/2018

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Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 1)

Harmful if swallowed.
 Causes skin irritation.
 Causes serious eye irritation.
 May cause genetic defects.
 May cause cancer.
 Suspected of damaging fertility or the unborn child.
 May cause drowsiness or dizziness.
 May cause damage to organs through prolonged or repeated exposure.
 May be fatal if swallowed and enters airways.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Avoid breathing dust/fume/gas/mist/vapors/spray
 Wear protective gloves/protective clothing/eye protection/face protection.
 If swallowed: Immediately call a poison center/doctor.
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Rinse mouth.
 Take off contaminated clothing and wash it before reuse.
 If eye irritation persists: Get medical advice/attention.

Hazard description: Flammable**NFPA ratings (scale 0 - 4)**

Health = 3
 Fire = 3
 Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = *3
 Flammability = 3
 Reactivity = 0

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****Chemical characterization: Mixture****Description:** Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.**Hazardous components:**

79-20-9	methyl acetate	50-100%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	10-20%
110-54-3	n-Hexane	10-20%
110-82-7	cyclohexane	5-10%
142-82-5	Heptane	5-10%
64742-89-8	Solvent naphtha (petroleum), light aliph.	5-10%

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.

USGHS

(Cont. on page 3)

Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 2)

4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Immediately call a doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed

Harmful: may cause lung damage if swallowed.

Harmful if swallowed.

Irritating to eyes.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

Combustion products may include toxic gases such as carbon monoxide and smoke.

Advice for firefighters

Protective equipment: Wear personal protective equipment.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Environmental precautions: Prevent seepage into sewage system, workpits and cellars.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13 of the SDS.

(Cont. on page 4)

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Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 3)

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling**

Prevent formation of aerosols.

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

Avoid contact with eyes.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Empty containers may retain hazardous residue, both liquid and vapor.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:** Store in a cool location.**Information about storage in one common storage facility:**

Use only in explosion protected area.

Keep respirator available.

Further information about storage conditions: Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:****79-20-9 methyl acetate**

PEL (USA)	Long-term value: 610 mg/m ³ , 200 ppm
REL (USA)	Short-term value: 760 mg/m ³ , 250 ppm
	Long-term value: 610 mg/m ³ , 200 ppm
TLV (USA)	Short-term value: 757 mg/m ³ , 250 ppm
	Long-term value: 606 mg/m ³ , 200 ppm

110-54-3 n-Hexane

PEL (USA)	Long-term value: 1800 mg/m ³ , 500 ppm
REL (USA)	Long-term value: 180 mg/m ³ , 50 ppm

(Cont. on page 5)

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Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 4)

TLV (USA)	Long-term value: 176 mg/m ³ , 50 ppm Skin; BEI
110-82-7 cyclohexane	
PEL (USA)	Long-term value: 1050 mg/m ³ , 300 ppm
REL (USA)	Long-term value: 1050 mg/m ³ , 300 ppm
TLV (USA)	Long-term value: 344 mg/m ³ , 100 ppm
142-82-5 Heptane	
PEL (USA)	Long-term value: 2000 mg/m ³ , 500 ppm
REL (USA)	Long-term value: 350 mg/m ³ , 85 ppm Ceiling limit value: 1800* mg/m ³ , 440* ppm *15-min
TLV (USA)	Short-term value: 2050 mg/m ³ , 500 ppm Long-term value: 1640 mg/m ³ , 400 ppm
Ingredients with biological limit values:	
110-54-3 n-Hexane	
BEI (USA)	0.4 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 2.5-Hexanedione without hydrolysis

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands: Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Material of gloves Rubber or other impervious gloves should be worn to prevent skin contact.

Eye protection:



Safety glasses with side shield protection.

Body protection:

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	Green
Odor:	Characteristic
Odor threshold:	Not determined.

(Cont. on page 6)

USGHS

Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 5)

pH-value (~):	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	56 °C (132.8 °F)
Flash point:	-23 °C (-9.4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	215 °C (419 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	In use, may form flammable/explosive vapor-air mixture.
Explosion limits:	
Lower:	1.2 Vol %
	Not applicable.
Upper:	16 Vol %
	Not applicable.
VOC Content (max):	Not applicable.
Vapor pressure:	Not determined.
Density: (~) at 20 °C (68 °F)	0.9 g/cm ³ (7.5 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

*

10 Stability and reactivity**Reactivity** Stable under normal conditions.**Chemical stability****Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** Strong oxidizers.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

*

11 Toxicological information**Delayed and immediate effects and chronic effects from short or long term exposure**

May cause damage to organs through prolonged or repeated exposure.

(Cont. on page 7)

USGHS

Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 6)

Information on toxicological effects**Acute toxicity:****LD/LC50 values relevant for classification:****79-20-9 methyl acetate**

Dermal LD50 6,970 mg/kg (rat)

110-82-7 cyclohexane

Dermal LD50 12,705 mg/kg (rat)

Primary irritant effect:**on the skin:** Causes skin irritation.**on the eye:** Causes serious eye irritation.**inhalation:** No irritating effect expected**Ingestion:**

Harmful: may cause lung damage if swallowed.

May cause damage to organs through prolonged or repeated exposure.

Harmful if swallowed.

Additional toxicological information:

The product can cause inheritable damage.

Suspected of damaging fertility or the unborn child.

Carcinogenic categories**IARC (International Agency for Research on Cancer) Human Carcinogenicity:****Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable**

None of the ingredients is listed.

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

*

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

USGHS

(Cont. on page 8)

Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 7)

* 13 Disposal considerations

Disposal methods:

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:

Recommendation: Dispose of contents/container in accordance with local/regional/national/international regulations.

* 14 Transport information

UN-Number

DOT, IMDG, IATA

UN1133

UN proper shipping nameDOT
IMDG
IATAAdhesives
ADHESIVES (HEPTANES, CYCLOHEXANE), MARINE POLLUTANT
ADHESIVES**Transport hazard class(es)**

DOT



Class

3 Flammable liquids

Label

3

IMDG



Class

3 Flammable liquids

Label

3

IATA



Class

3 Flammable liquids

Label

3

Packing group

DOT, IMDG, IATA

II

Environmental hazards:**Marine pollutant:**

Product contains environmentally hazardous substances: cyclohexane, Heptane

Yes (DOT)

Symbol (fish and tree)

Special marking (ADR):

Symbol (fish and tree)

(Cont. on page 9)

USGHS

Safety Data Sheet

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Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 8)

Special precautions for user Warning: Flammable liquids**Danger code (Kemler):** 30**EMS Number:** F-E,S-D**Stowage Category** A**Transport/Additional information:****DOT****Remarks:** Special marking with the symbol (fish and tree).**IMDG****Limited quantities (LQ)** 5L**Excepted quantities (EQ)** Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1133 ADHESIVES, 3, II, ENVIRONMENTALLY HAZARDOUS**15 Regulatory information****SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

110-54-3	n-Hexane	10.5%
110-82-7	cyclohexane	5.3%

SARA Section 312/Tier I & II Hazard Categories:

Physical Hazard - Flammable (gases, aerosols, liquids, or solids)

Health Hazard - Carcinogenicity

Health Hazard - Acute toxicity (any route of exposure)

Health Hazard - Reproductive toxicity

Health Hazard - Skin Corrosion or Irritation

Health Hazard - Serious eye damage or eye irritation

Health Hazard - Specific target organ toxicity (single or repeated exposure)

Health Hazard - Aspiration Hazard

Health Hazard - Germ cell mutagenicity

North America Chemical Inventory Status**TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

California Proposition 65: (Substances <0.1% unless noted in Section 3)**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories**TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)****Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable**

None of the ingredients is listed.

(Cont. on page 10)

USGHS

Safety Data Sheet

Printing date 03/28/2018

Version Number 1.0

Reviewed on 03/28/2018

Trade name: *Perm-A-Barrier Adhesive Primer*

(Cont. from page 9)

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

135 g/L

*

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies

62 Whittemore Avenue

Cambridge, MA 02140 USA

USA: +1-617-876-1400 (24 hours)

+1-800-354-5414

Date of preparation / last revision 03/28/2018 / -**The first date of preparation** 10/09/2015**Number of revision times and the latest revision date** 1.0 / 03/28/2018

USGHS

1 Identification

Product identifier

Trade name: **PERM-A-BARRIER WB Primer**

SDS ID Number: 60142

Relevant identified uses of the substance or mixture, and uses advised against:
Specialty construction product. Not intended for other uses.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)
Email address: msds.gcp@gcpat.com

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

2 Hazard(s) identification

Classification of the substance or mixture

Suspected of causing cancer.

Label elements:

Hazard pictograms



GHS08

Warning

Hazard statements

Suspected of causing cancer.

Precautionary statements

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

NFPA ratings (scale 0 - 4)



Health = 2

Fire = 1

Reactivity = 0

Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: **PERM-A-BARRIER WB Primer**

(Cont. from page 1)

HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = *2
FIRE	1	Flammability = 1
REACTIVITY	0	Reactivity = 0

Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.* **3 Composition/information on ingredients****Chemical characterization: Mixture****Description:** Mixture of the hazardous substance(s) listed below with additional nonhazardous ingredients.**Hazardous components:**

108-05-4	vinyl acetate	0.1-1.0%
----------	---------------	----------

Additional information: Non-hazardous ingredients may be listed in Section 15; Right-To-Know disclosure.* **4 First-aid measures****Description of first aid measures****General information:** Get medical advice/attention if you feel unwell.**After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact:

Immediately wash contaminated skin with soap or mild detergent and water. If this chemical soaks clothing, immediately remove clothing and wash skin.

After eye contact:

Rinse cautiously with water for several minutes.

Seek immediate medical advice.

After swallowing:

Rinse mouth.

Do NOT induce vomiting.

Immediately call a doctor.

Never give anything by mouth to an unconscious person.

Information for doctor:**Most important symptoms and effects, both acute and delayed** No further relevant information available.**Indication of any immediate medical attention and special treatment needed** No further relevant information available.* **5 Fire-fighting measures****Special hazards arising from the substance or mixture** No further relevant information available.(Cont. on page 3)
USGHS

Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: **PERM-A-BARRIER WB Primer**

(Cont. from page 2)

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.**6 Accidental release measures****Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Contain and/or absorb spill with inert material (i.e. sand, vermiculite) then place in a suitable container.

Sweep up spilled product into receptacles.

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:****Precautions for safe handling**

Open and handle receptacle with care.

Prevent formation of aerosols.

Avoid contact with eyes, skin and clothing.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

Information about protection against explosions and fires: Keep respirator available.**Conditions for safe storage, including any incompatibilities****Storage:****Information about storage in one common storage facility:** Keep respirator available.**Further information about storage conditions:** Keep receptacle tightly sealed.**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection****Additional information about design of technical systems:** No further data; see item 7.**Control parameters****Components with limit values that require monitoring at the workplace:****108-05-4 vinyl acetate**REL (USA) Ceiling limit value: 15* mg/m³, 4* ppm
*15-minTLV (USA) Short-term value: 53 mg/m³, 15 ppm
Long-term value: 35 mg/m³, 10 ppm

(Cont. on page 4)

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Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: **PERM-A-BARRIER WB Primer**

(Cont. from page 3)

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Avoid contact with the eyes and skin.

The usual precautionary measures for handling chemicals should be followed.

Store protective clothing separately.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

Protection of hands:

Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Rubber or other impervious gloves should be worn to prevent skin contact.

Material of gloves Gloves should be worn to prevent skin contact and should be impermeable and resistant to the product.

Eye protection:



Safety glasses with side shield protection.

Safety glasses with side shields should be worn to prevent contact due to splashing. Under high vapor mist concentrations, tightly sealed goggles should be worn.



A face shield should also be worn if there is potential exposure to splash or spray.

Body protection:

Protective work clothing

Use personal protective equipment as required.

Take off contaminated clothing.

*

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.

pH-value (~) at 20°C (68 °F): 4.8

Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Flash point:	Not applicable.

(Cont. on page 5)

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Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: **PERM-A-BARRIER WB Primer**

(Cont. from page 4)

Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
VOC Content (max):	Not determined.
Vapor pressure:	Not determined.
Density: (~)	Not determined.
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Molecular weight	Not applicable.
Other information	No further relevant information available.

*

10 Stability and reactivity**Reactivity** Stable under normal conditions.**Chemical stability****Thermal decomposition:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No further relevant information available.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide**Additional information:** See section 7 for information on handling, storage and conditions to be avoided.

*

11 Toxicological information**Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****108-05-4 vinyl acetate**

Dermal	LD50	2920 mg/kg (rat)
	LD50	2335 mg/kg (rabbit)

Primary irritant effect:**on the skin:** No irritating effect expected**on the eye:** No irritating effect expected**inhalation:** No irritating effect expected

(Cont. on page 6)

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Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: **PERM-A-BARRIER WB Primer**

(Cont. from page 5)

Additional toxicological information: Suspected of causing cancer.**Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

108-05-4 | vinyl acetate

2B

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Not known to be hazardous to water.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.**13 Disposal considerations****Disposal methods:**

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing product for disposal. Dispose of waste in accordance with all applicable regulations.

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Dispose of contents/container in accordance with local/regional/national/international regulations.**14 Transport information****UN-Number**
DOT, IMDG, IATA

Not applicable.

(Cont. on page 7)

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Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: *PERM-A-BARRIER WB Primer*

(Cont. from page 6)

UN proper shipping name

DOT, IMDG, IATA

Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class

Not applicable.

Packing group

DOT, IMDG, IATA

Not applicable.

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Not applicable.

Transport/Additional information: Not classified as a dangerous good for transport by road, rail or air.

DOT

Remarks:

Not Regulated.

UN "Model Regulation":

Not applicable.

*

15 Regulatory information**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

108-05-4 | vinyl acetate

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories: Health Hazard - Carcinogenicity**North America Chemical Inventory Status****TSCA (Toxic Substances Control Act - United States):**

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

25280-35-7 | Acetic acid ethenyl ester

7732-18-5 | Water

California Proposition 65: (Substances <0.1% unless noted in Section 3)**Chemicals known to cause cancer:**

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories**EPA (Environmental Protection Agency)**

None of the ingredients is listed.

(Cont. on page 8)

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Safety Data Sheet

Printing date 08/15/2017

Version Number 1.1

Reviewed on 08/15/2017

Trade name: **PERM-A-BARRIER WB Primer**

(Cont. from page 7)

TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)
Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards.

If no g/L value is provided this product is not subject to above standard.

10g/l (as applied)

*

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
 62 Whittemore Avenue
 Cambridge, MA 02140 USA
 USA: +1-617-876-1400 (24 hours)
 +1-800-354-5414

Date of preparation / last revision 08/15/2017 / 1.0

The first date of preparation 11/08/2012

Number of revision times and the latest revision date 1.1 / 08/15/2017

USGHS

*

1 Identification

Product identifier

Trade name: Perm-A-Barrier S-100

SDS ID Number: 2659

Relevant identified uses of the substance or mixture, and uses advised against
Specialty construction product. Not intended for other uses

Details of the supplier of the safety data sheet

Manufacturer/Supplier:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA

GCP Canada, Inc.
294 Clements Road W.
Ajax, Ontario L1S 3C6 Canada

Information department:

Environmental Health & Safety
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414 (8AM - 5PM) Not functional within Massachusetts
CAN: 1-905-683-8561 (24 hours)

Transport Emergency: Chemtrec +1-800-424-9300 (24 hours)

*

2 Hazard(s) identification

Classification of the substance or mixture

May cause an allergic skin reaction.

Label elements: The product is classified and labeled according to the Globally Harmonized System (GHS)

Hazard pictograms



GHS07

Warning

Hazard statements

May cause an allergic skin reaction.

Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Contaminated work clothing should not be allowed out of the workplace.

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

(Cont. on page 2)

USGHS

Safety Data Sheet

Printing date 08/11/2016

Version Number 1.0

Reviewed on 08/11/2016

Trade name: *Perm-A-Barrier S-100*

NFPA ratings (scale 0 - 4)

(Cont. from page 1)



Health = 2
Fire = 1
Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = *2
Flammability = 1
Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

* 3 Composition/information on ingredients

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with additional nonhazardous ingredients.

Hazardous components:

96-29-7	2-butanone oxime	0.1-1.0%
---------	------------------	----------

Additional information: For the wording of the listed hazard phrases refer to section 16.

* 4 First-aid measures

Description of first aid measures

General information: Get medical advice/attention if you feel unwell.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse cautiously with water for several minutes.

After swallowing: If symptoms persist consult doctor.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire-fighting measures

Special hazards arising from the substance or mixture No further relevant information available.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

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(Cont. on page 3)

Safety Data Sheet

Printing date 08/11/2016

Version Number 1.0

Reviewed on 08/11/2016

Trade name: *Perm-A-Barrier S-100*

(Cont. from page 2)

6 Accidental release measures**Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13 of the SDS.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**Handling:**

Precautions for safe handling No special precautions are necessary if used correctly.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities**Storage:**

Information about storage in one common storage facility: No special measures required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

Control parameters

Components with limit values that require monitoring at the workplace:

96-29-7 2-butanone oxime

WEEL (USA)	Long-term value: 10 ppm
	DSEN

Additional information: The lists that were valid during the creation were used as basis.

Exposure controls**Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment:

Control exposure to ingredients with workplace control parameters if mentioned above. If no ingredients are listed, respiratory protection is generally not required.

If exposure limits are listed and may be exceeded, use approved respiratory protective equipment and filter type appropriate for the listed ingredients. (NIOSH, CEN, etc.).

(Cont. on page 4)

USGHS

Safety Data Sheet

Printing date 08/11/2016

Version Number 1.0

Reviewed on 08/11/2016

Trade name: *Perm-A-Barrier S-100*

(Cont. from page 3)

Protection of hands: Not required.**Eye protection:** Goggles recommended during refilling.**Body protection:**

Use personal protective equipment as required.

Take off contaminated clothing.

9 Physical and chemical properties**Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Liquid

Color:

According to product specification

Odor:

Characteristic

Odor threshold:

Not determined.

pH-value (~):

Not determined.

Change in condition**Melting point/Melting range:**

Undetermined.

Boiling point/Boiling range:

175 °C (347 °F)

Flash point:

>200 °C (>392 °F)

Flammability (solid, gaseous):

Not applicable.

Decomposition temperature:

Not determined.

Auto igniting:

Product is not selfigniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:**Lower:**

Not determined.

Upper:

Not determined.

VOC Content (max):

Not determined.

Vapor pressure:

Not determined.

Density: (~)

Not determined.

Relative density

Not determined.

Vapor density

Not determined.

Evaporation rate

Not determined.

Solubility in / Miscibility with**Water:**

Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.**Viscosity:****Dynamic:**

Not determined.

Kinematic:

Not determined.

Molecular weight

Not applicable.

Other information

No further relevant information available.

*

10 Stability and reactivity**Reactivity** Stable under normal conditions.

(Cont. on page 5)

USGHS

Safety Data Sheet

Printing date 08/11/2016

Version Number 1.0

Reviewed on 08/11/2016

Trade name: *Perm-A-Barrier S-100*

(Cont. from page 4)

Chemical stability**Thermal decomposition:** No decomposition if used according to specifications.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

*

11 Toxicological information**Information on toxicological effects****Acute toxicity:****Primary irritant effect:****on the skin:** No irritating effect expected**on the eye:** No irritating effect expected**inhalation:** No irritating effect expected**Sensitization:** May cause an allergic skin reaction.**Additional toxicological information:****Carcinogenic categories****IARC (International Agency for Research on Cancer) Human Carcinogenicity:**
Group 1- Positive, Group 2A- Probable, Group 2B- Possible, Group 3- Not Classifiable

None of the ingredients is listed.

NTP (National Toxicology Program)**K–Known to be carcinogenic, R–May reasonably be anticipated to be carcinogenic**

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

*

12 Ecological information**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:** Danger to drinking water if even small quantities leak into the ground.**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

(Cont. on page 6)

USGHS

Safety Data Sheet

Printing date 08/11/2016

Version Number 1.0

Reviewed on 08/11/2016

Trade name: *Perm-A-Barrier S-100*

(Cont. from page 5)

Other adverse effects No further relevant information available.

*

13 Disposal considerations**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings:**Recommendation:** Disposal must be made according to official regulations.

*

14 Transport information**UN-Number**

DOT, IMDG, IATA Not applicable.

UN proper shipping name

DOT, IMDG, IATA Not applicable.

Transport hazard class(es)

DOT, IMDG, IATA

Class Not applicable.

Packing group

DOT, IMDG, IATA Not applicable.

Environmental hazards: Not applicable.**Special precautions for user** Not applicable.**Transport/Additional information:**

DOT

Remarks: Not Regulated.**UN "Model Regulation":** Not applicable.

*

15 Regulatory information**SARA (Superfund Amendments and Reauthorization Act)****Section 302/304 (extremely hazardous substances):**

None of the ingredients is listed.

Section 313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):

None of the ingredients is listed.

SARA Section 312/Tier I & II Hazard Categories:

Health Immediate (acute)	Yes
Health Delayed (chronic)	Yes
Flammable	No
Reactive	No

(Cont. on page 7)

USGHS

Safety Data Sheet

Printing date 08/11/2016

Version Number 1.0

Reviewed on 08/11/2016

Trade name: *Perm-A-Barrier S-100*

Pressure

No

(Cont. from page 6)

North America Chemical Inventory Status

TSCA (Toxic Substances Control Act - United States):

All ingredients are listed or exempt from listing unless otherwise noted below.

CEPA (Canadian DSL):

All ingredients are listed or exempt from listing unless otherwise noted below.

Right to Know Ingredient Disclosure:

	Proprietary Ingredient NJTSN801416108
	Proprietary Polydimethylsiloxane - NJTSN801416111
112945-52-5	Amorphous Silica Dioxide

California Proposition 65

Chemicals known to cause cancer:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Carcinogenicity Categories

EPA (Environmental Protection Agency)

13463-41-7	Pyrithione zinc	D, I, II
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TLV-ACGIH (THE American Conference of Governmental Industrial Hygienists)

Human Carcinogen - A1 Confirmed, A2 Suspected, A3 Unknown Relevance, A4 Not Classifiable

None of the ingredients is listed.

NIOSH-Cancer (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

Volatile Organic Compounds (VOC) reported per the Emission Standards. 25.44 g/L

*

16 Other information

The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection.

Department issuing SDS:

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140 USA
USA: +1-617-876-1400 (24 hours)
+1-800-354-5414

Date of preparation / last revision 08/11/2016 / -

The first date of preparation 07/05/2016

Number of revision times and the latest revision date 1.0 / 08/11/2016

USGHS

PERM-A-BARRIER VPS 30

Five Year Material Warranty

WARRANTY NO. _____

NAME OF BUILDING _____

LOCATION OF BUILDING _____

NAME OF OWNER _____

CONTRACTOR _____

PRODUCT(S) USED PERM-A-BARRIER® VPS 30

TOTAL AREA (SF) _____

DATE OF COMPLETED INSTALLATION _____

GCP Applied Technologies Inc. ("GCP") hereby warrants that for a period of Five (5) years from the date of completion of installation identified above, the air permeance of a continuous coating of PERM-A-BARRIER® VPS 30 Membrane when installed and used in strict conformance with the written instructions of GCP will not exceed 0.02 l/s/m² when tested according to ASTM E 2178 at a pressure differential of 75 Pa, and the vapor permeance of PERM-A-BARRIER® VPS 30 Membrane when installed and used in strict conformance with the written instructions of GCP will be no less than 10 perms when tested according to ASTM E96 Method B.

If at any time during such Five (5) year period the PERM-A-BARRIER® VPS 30 Membrane is found by GCP not to comply with this warranty, then GCP will supply to the owner replacement PERM-A-BARRIER® VPS 30 Membrane in a quantity equal to the material found to be nonconforming, with a value not to exceed the purchase price for the material paid to GCP for the original installation.

This warranty does not apply to any failure caused by or due to workmanship or improper installation of the PERM-A-BARRIER® VPS 30 Membrane, abuse of the PERM-A-BARRIER® VPS 30 Membrane, or chemical incompatibility with other materials, acts of God, movement or cracks in excess of 1/16 inch of the immediate substrate, inadequate or faulty design of the subject structure or to repairs or installations made by other persons not authorized by GCP. In addition, this warranty does not cover any costs or expenses associated with 1) the removal or replacement of any material including the exterior sheathing or facade in connection with the testing, repair, removal or replacement of the PERM-A-BARRIER® VPS 30 Membrane and, 2) damages or repairs of any kind or nature to the subject building or its' contents from air, vapor, water or otherwise.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY AND ALL OTHER GUARANTEES OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES OF THE OWNER FOR ANY BREACH OF THIS WARRANTY SHALL BE LIMITED TO THOSE HEREIN PROVIDED TO THE EXCLUSION OF ANY AND ALL OTHER REMEDIES. GCP SHALL NOT BE LIABLE IN ANY CASE FOR ANY DAMAGE TO THE BUILDING OR THE CONTENTS THEREOF, NOR WILL IT BE RESPONSIBLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR PENAL DAMAGES. NO AGREEMENT VARYING OR EXTENDING THE FOREGOING WARRANTY REMEDIES WILL BE BINDING UPON GCP UNLESS IN WRITING, SIGNED BY A DULY AUTHORIZED OFFICER OF GCP.

GCP Applied Technologies Inc.

By Title _____

Date _____

LIST OF DRAWINGS

LEGEND

WINDOW DETAILS AT MASONRY CLADDING

VPS30-001	WINDOW HEAD DETAIL	MASONRY CLADDING
VPS30-002	WINDOW JAMB DETAIL	MASONRY CLADDING
VPS30-003	WINDOW SILL DETAIL	MASONRY CLADDING
VPS30-003 (3D-1)	WINDOW FLASHING SEQUENCE	SHEET-APPLIED FLASHING
VPS30-003 (3D-2)	SHEET-APPLIED FLASHING PRESTRIP	

BASE OF WALL DETAILS AT MASONRY CLADDING

VPS30-004	BASE-OF-WALL DETAIL	MASONRY CLADDING
VPS30-004 (3D-1)	BASE-OF-WALL FLASHING SEQ. (OPT. 1)	MASONRY CLADDING
VPS30-004 (3D-2)	BASE-OF-WALL FLASHING SEQ. (OPT. 2)	MASONRY CLADDING
VPS30-004 (ALT 1)	BASE-OF-WALL DETAIL (ALTERNATE 1)	MASONRY CLADDING
VPS30-004 (ALT 2)	BASE-OF-WALL DETAIL (ALTERNATE 2)	MASONRY CLADDING

LEDGER DETAILS AT MASONRY CLADDING

VPS30-005	FLOOR LINE DETAIL	MASONRY CLADDING
VPS30-005 (3D-1)	FLOOR LINE FLASHING SEQ. (OPT. 1)	MASONRY CLADDING
VPS30-005 (3D-2)	FLOOR LINE FLASHING SEQ. (OPT. 2)	MASONRY CLADDING
VPS30-006A	MASONRY ANCHOR DETAIL	CMU SUBSTRATE
VPS30-006B	MASONRY ANCHOR DETAIL	FRAMED SUBSTRATE

PARAPET DETAILS AT MASONRY CLADDING

VPS30-007	PARAPET DETAIL	MASONRY CLADDING
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EXPANSION AND CONTROL JOINT DETAILS

VPS30-008	EXPANSION JOINT DETAIL
VPS30-009	CONTROL JOINT DETAIL

WINDOW DETAILS AT NON-MASONRY CLADDING

VPS30-010	WINDOW HEAD DETAIL	NON-MASONRY CLADDING
VPS30-011	WINDOW JAMB DETAIL	NON-MASONRY CLADDING
VPS30-012	WINDOW SILL DETAIL	NON-MASONRY CLADDING

NON-MASONRY CLADDING DETAILS

VPS30-013	FLOOR LINE DETAIL	NON-MASONRY CLADDING
VPS30-014	CONCRETE STEM WALL DETAIL	NON-MASONRY CLADDING
VPS30-015	BASE-OF-WALL DETAIL AT GRADE	NON-MASONRY CLADDING
VPS30-016	BASE-OF-WALL DETAIL	NON-MASONRY CLADDING
VPS30-017	INSIDE CORNER DETAIL	NON-MASONRY CLADDING
VPS30-017 (ALT)	INSIDE CORNER DETAIL (ALTERNATE)	NON-MASONRY CLADDING
VPS30-018	OUTSIDE CORNER DETAIL	NON-MASONRY CLADDING
VPS30-018 (ALT)	OUTSIDE CORNER DETAIL (ALTERNATE)	NON-MASONRY CLADDING
VPS30-019	KNIFEPLATE PENETRATION DETAIL	NON-MASONRY CLADDING
VPS30-020	PENETRATION DETAILS	NON-MASONRY CLADDING

CURTAINWALL DETAILS AT NON-MASONRY CLADDING

VPS30-021	CURTAINWALL HEAD DETAIL	NON-MASONRY CLADDING
VPS30-022	CURTAINWALL JAMB DETAIL	NON-MASONRY CLADDING
VPS30-023	CURTAINWALL SILL DETAIL	NON-MASONRY CLADDING

DEFLECTION JOINT

VPS30-024	DEFLECTION JOINT	NON-MASONRY CLADDING
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NOTE

- DETAILS APPLY TO PERM-A-BARRIER® VPS 30 AND PERM-A-BARRIER® VPS 30 30 DETAILS

GENERAL NOTES

- Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



LIST OF DRAWINGS

PERM-A-BARRIER® VPS 30

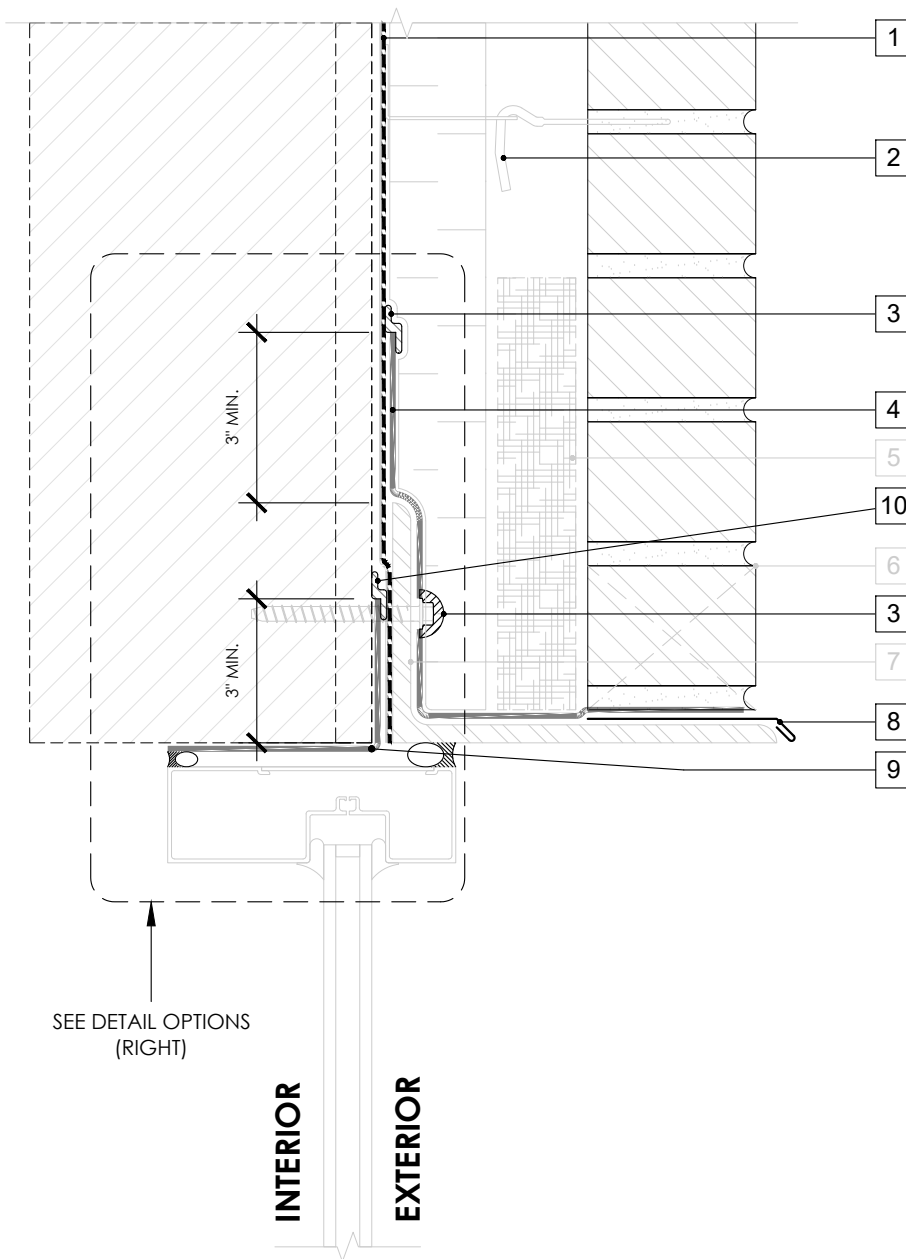
DRAWING: VPS30-000

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

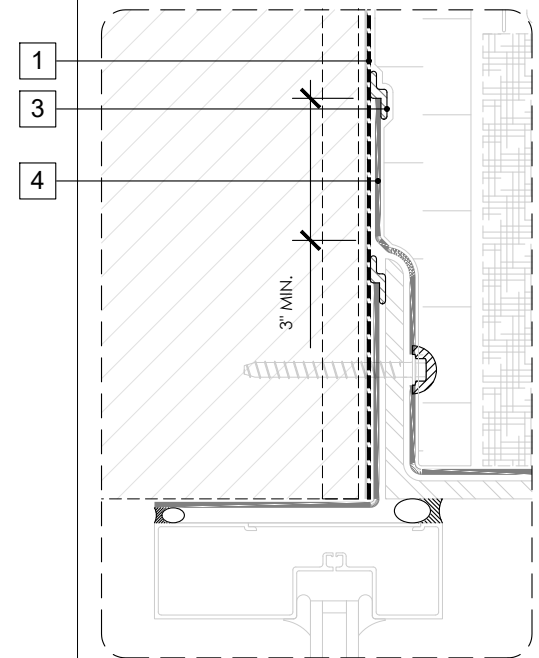
OPTION 1



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)**
3. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT**
4. **PERM-A-BARRIER® WALL FLASHING (STAR CUT AT BOLT), PRIME SUBSTRATE WHERE REQUIRED**
5. MORTAR COLLECTION MESH
6. MASONRY WEEP/VENT
7. CONTINUOUS SHELF ANGLE SUPPORT PER STRUCTURAL
8. SHEET METAL FLASHING PER ARCH
9. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
10. **BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT**

OPTION 2



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



WINDOW HEAD DETAIL - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

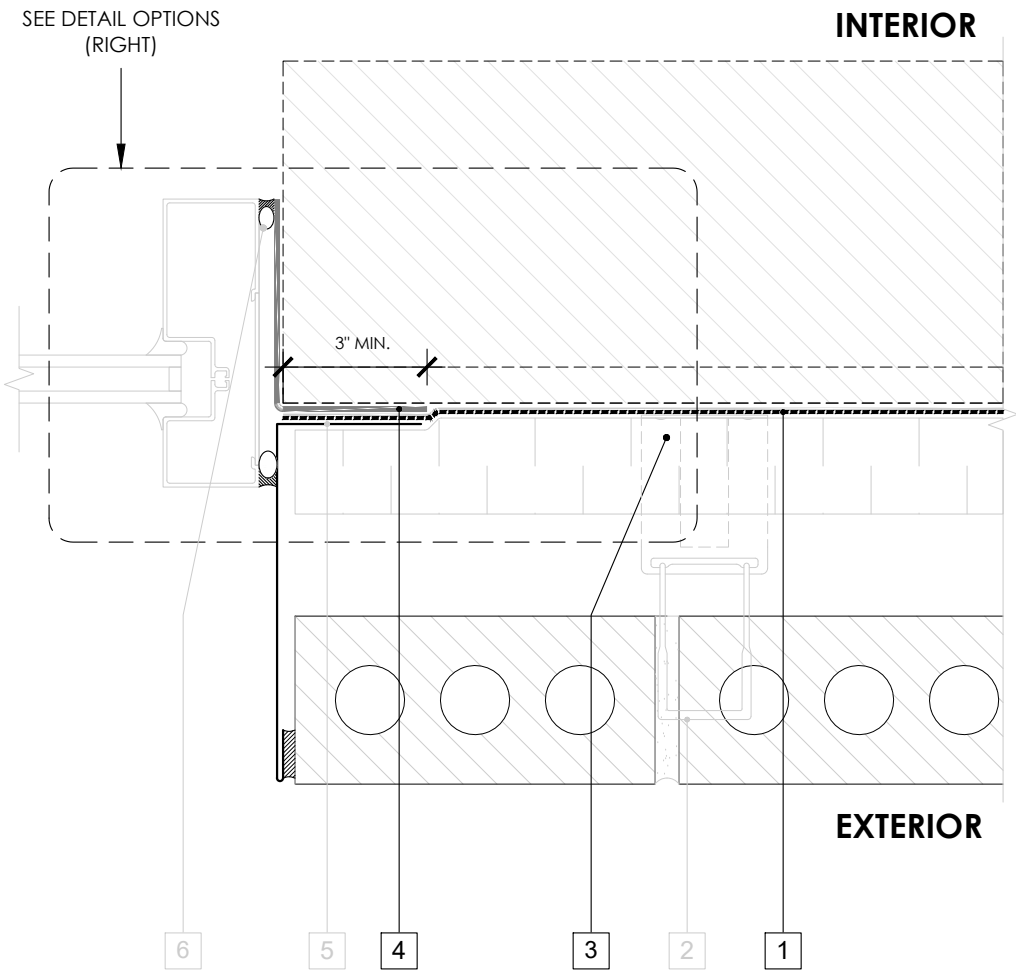
DRAWING: VPS30-001

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

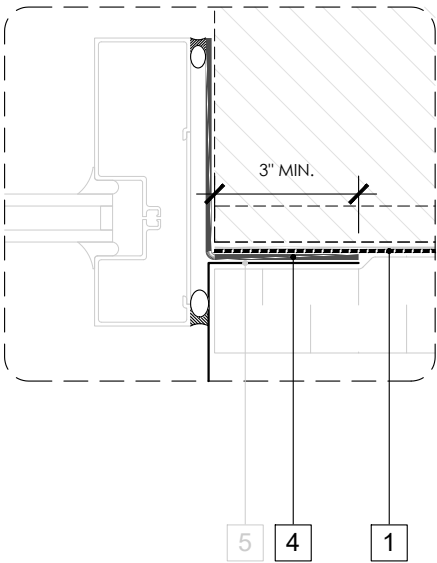
OPTION 1



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)**
3. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT**
4. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
5. SHEET METAL FLASHING PER ARCH
6. INTERIOR AIR SEALANT OVER BACKER ROD

OPTION 2



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.

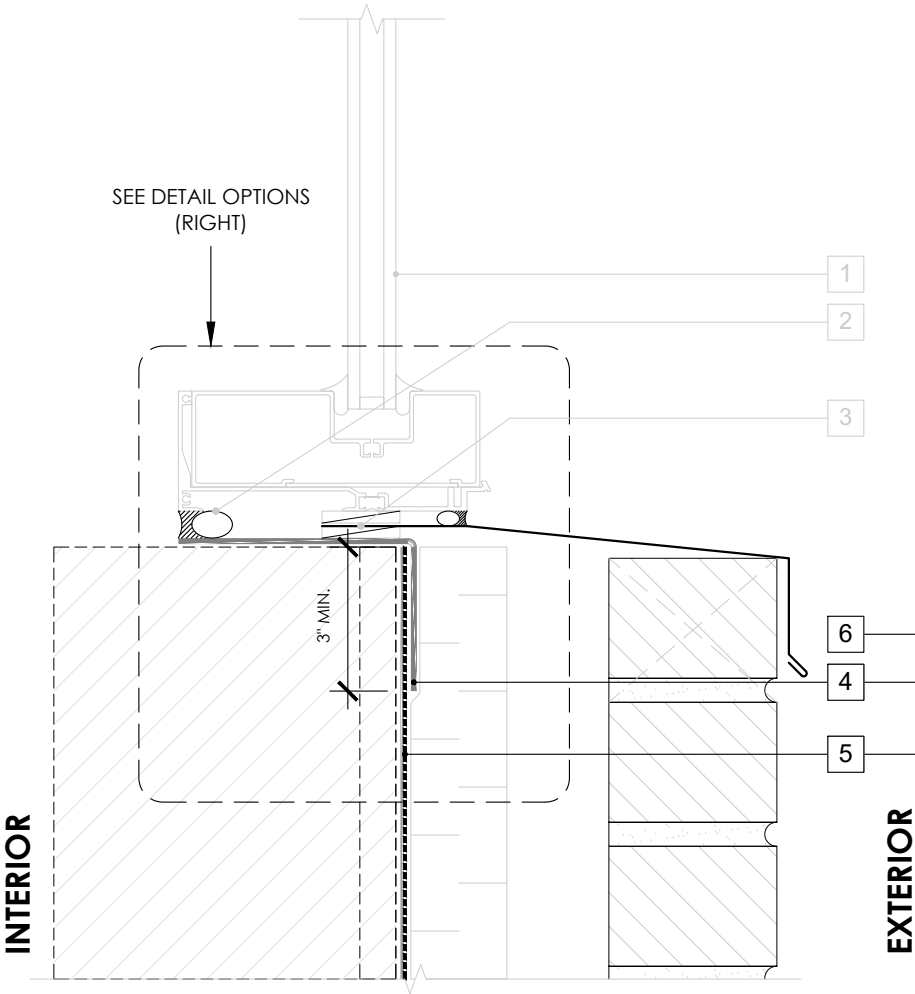


WINDOW JAMB DETAIL -
MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-002
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

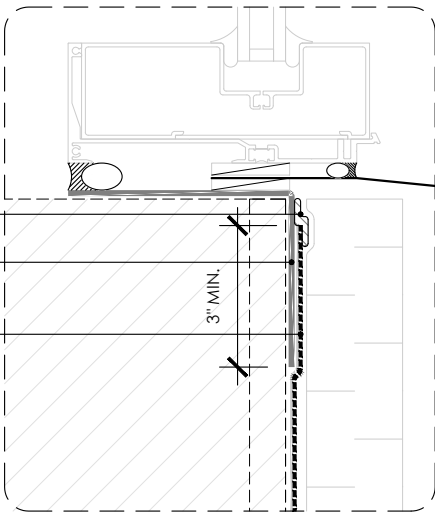
OPTION 1



LEGEND

- 1. NON-FLANGED WINDOW SYSTEM
- 2. INTERIOR AIR SEALANT OVER BACKER ROD
- 3. SHEET METAL FLASHING SANDWICHED BETWEEN 1/4" SHIMS BY OTHERS
- 4. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
- 5. **PERM-A-BARRIER® VPS 30 MEMBRANE**
- 6. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT**

OPTION 2



GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.

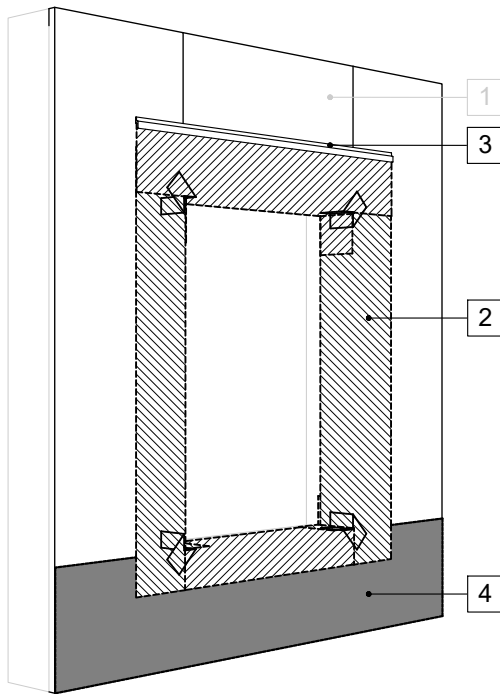


WINDOW SILL DETAIL -
MASONRY CLADDING

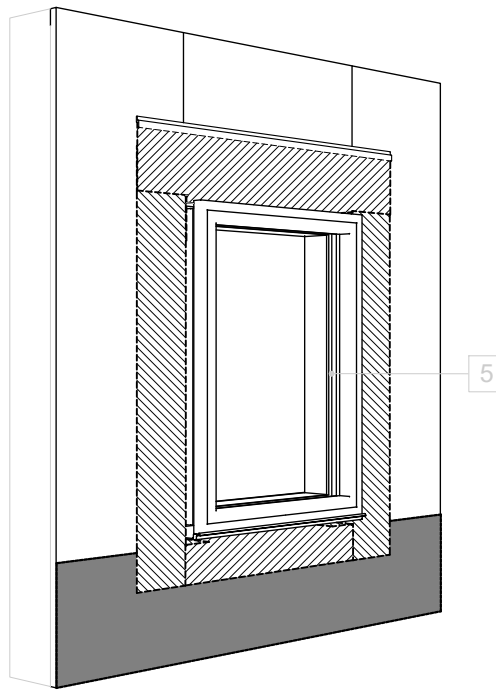
PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-003
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

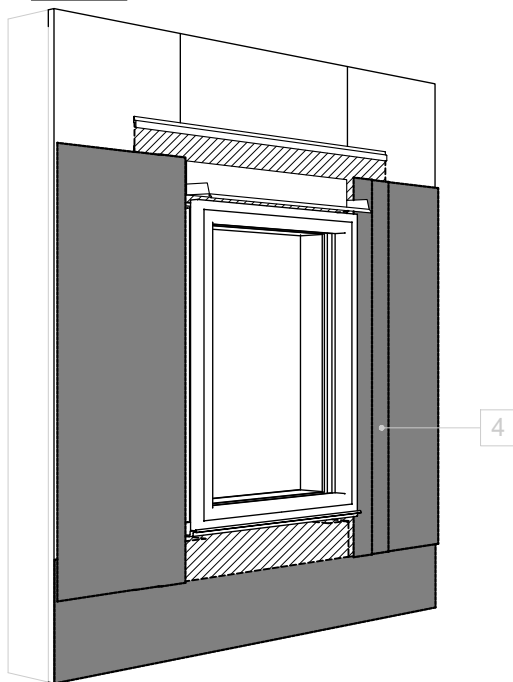
STEP 1



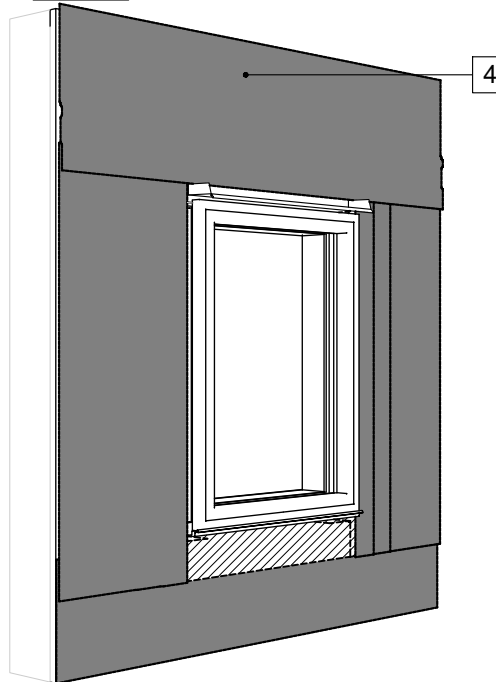
STEP 2



STEP 3



STEP 4



LEGEND

1. SHEATHING SUBSTRATE
2. PERM-A-BARRIER® DETAIL MEMBRANE, NPS DETAIL MEMBRANE, ALUMINUM FLASHING, OR WALL FLASHING - PRIME SUBSTRATE WHERE REQUIRED; SEE VPS30-003 (3D-2)
3. BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH TROWELED BEAD
4. PERM-A-BARRIER® VPS 30 MEMBRANE
5. WINDOW PER ARCH

NOTE

- CONTINUOUS AIR AND WATER SEAL AT PERIMETER OF FENESTRATION, FENESTRATION ATTACHMENT, AND DRAINAGE OF ROUGH OPENING TO BE PER PROJECT SPECIFIC REQUIREMENTS
- SEAL ALL NON-WATER SHEDDING EDGES WITH ACCEPTABLE SEALANT
- OPTIONAL - WINDOW FLASHING SEQUENCE CAN BE COMPLETED AFTER FIELD APPLICATION OF PERM-A-BARRIER® VPS

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

*Refer to air barrier system product data sheet for acceptable self-adhered flashing products.



WINDOW FLASHING SEQUENCE - SHEET APPLIED FLASHING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-003 (3D-1)

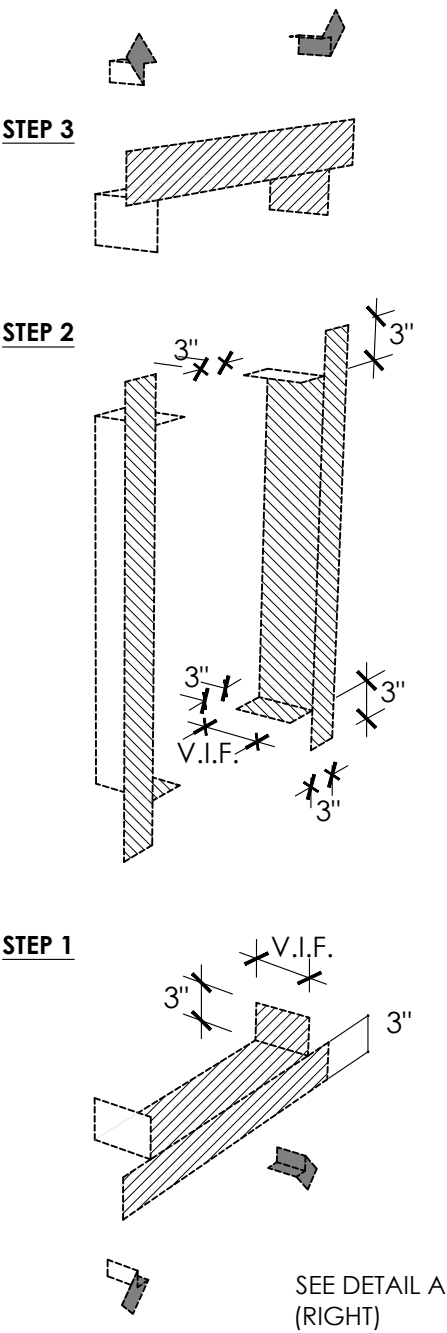
SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

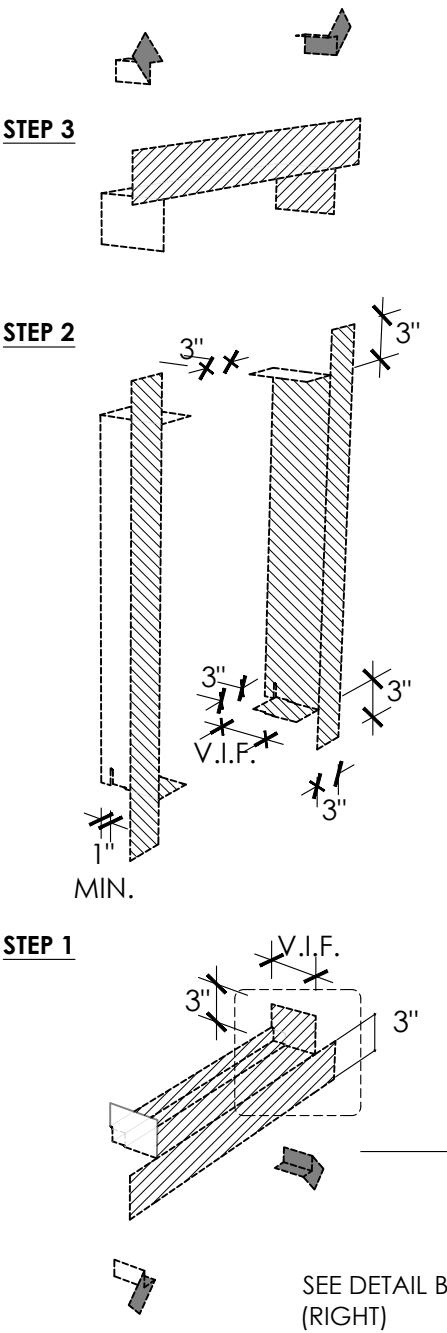
SUPERCEDES: NEW

WINDOW PRESTRIP VARIATIONS

A. WITHOUT BACK DAM ANGLE



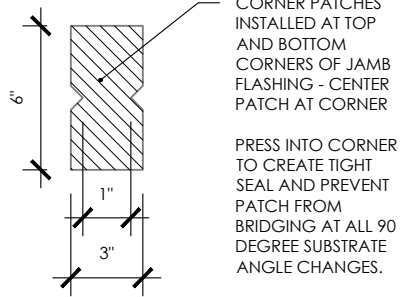
B. WITH BACK DAM ANGLE



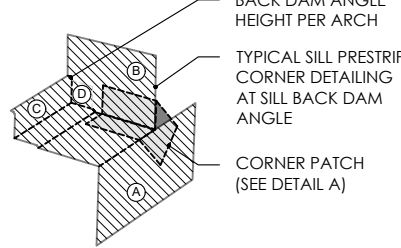
LEGEND

- WINDOW PRESTRIP PERM-A-BARRIER®
- DETAIL MEMBRANE, NPS DETAIL
- MEMBRANE, ALUMINUM FLASHING, OR WALL FLASHING
- PRIME SUBSTRATE WHERE REQUIRED

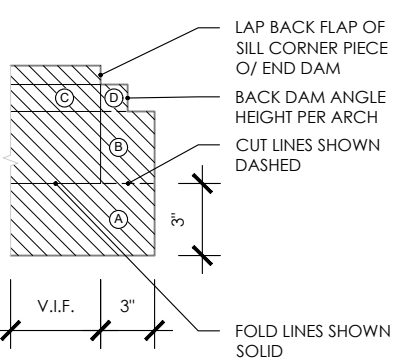
DETAIL A



DETAIL B



FOLDING TEMPLATE



GENERAL NOTES

- Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.

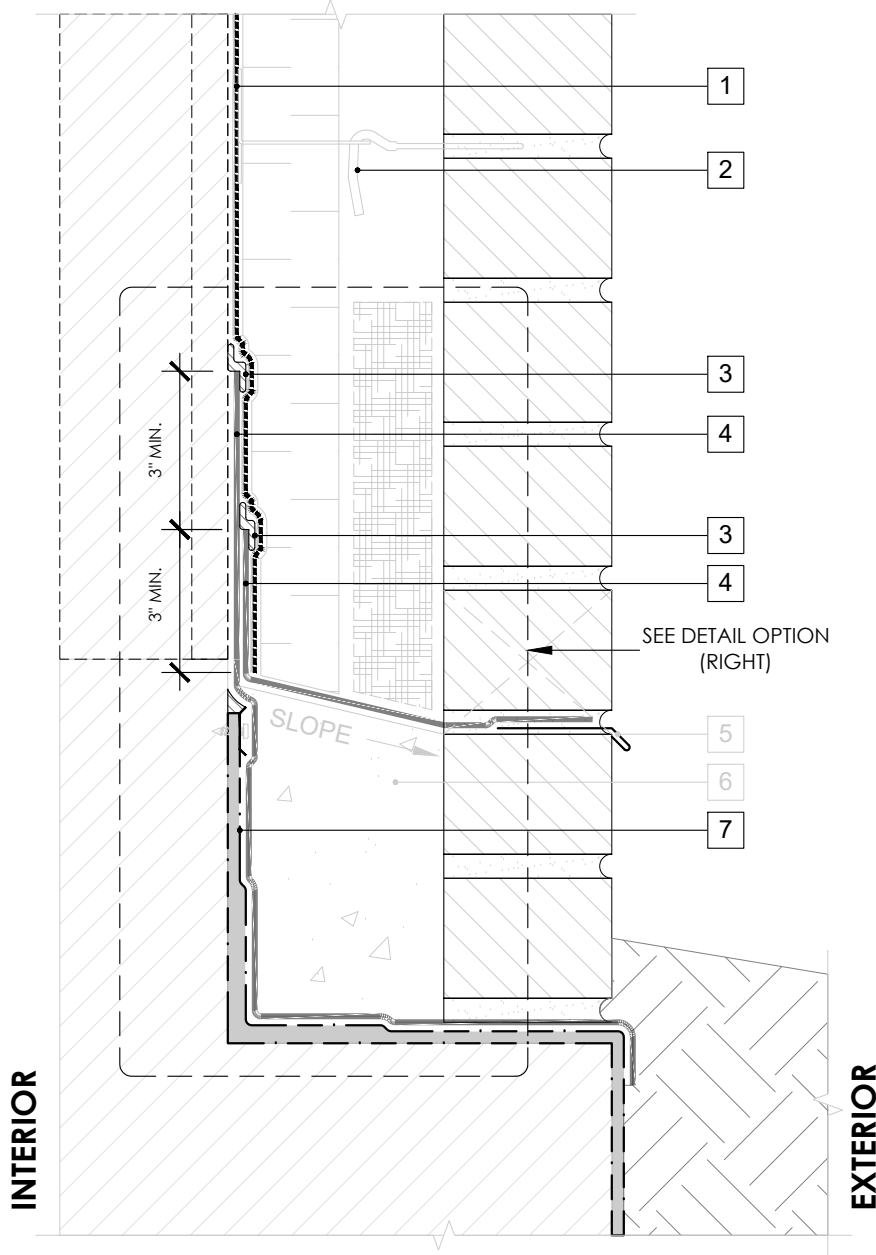


SHEET-APPLIED FLASHING PRESTRIP

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-003 (3D-2)
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

OPTION 1

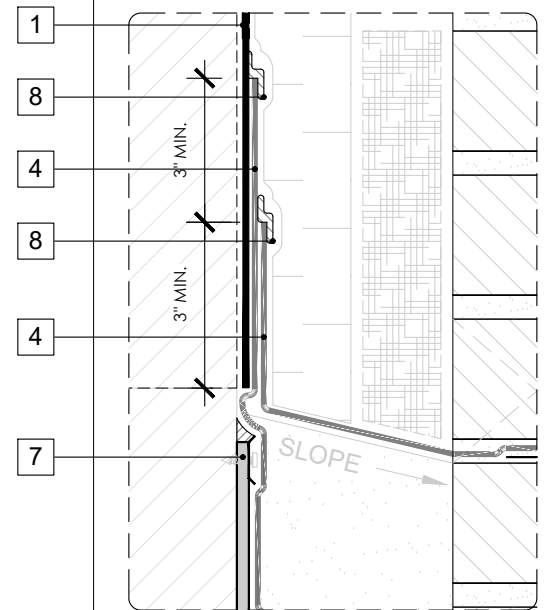


SEE VPS30-004 (3D-1) FOR 3D DETAIL

LEGEND

1. PERM-A-BARRIER® VPS 30 MEMBRANE
2. MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)
3. BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD
4. PERM-A-BARRIER® WALL FLASHING
5. SHEET METAL FLASHING PER ARCH
6. GROUT SOLID TO HEIGHT OF CURB - SLOPE TOP
7. BELOW GRADE WATERPROOFING SYSTEM - SEE GCPAT.COM
8. PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT

OPTION 2



SEE VPS30-004 (3D-2) FOR 3D DETAIL

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



BASE OF WALL DETAIL - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-004

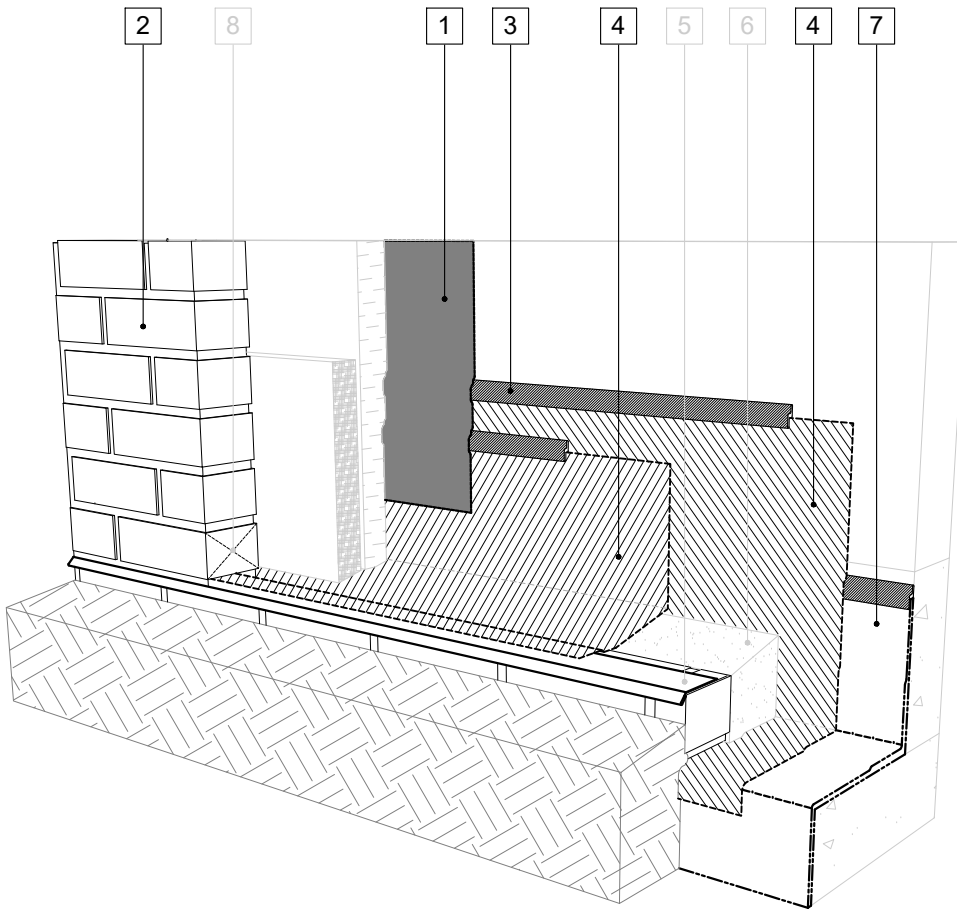
SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)**
3. **BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD**
4. **PERM-A-BARRIER® WALL FLASHING**
5. SHEET METAL FLASHING PER ARCH
6. GROUT SOLID TO HEIGHT OF CURB - SLOPE TOP
7. **BELOW GRADE WATERPROOFING SYSTEM - SEE GCPAT.COM**
8. MASONRY WEEP/VENT



SEE VPS30-004 (OPTION 1) FOR 2D DETAIL

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



BASE OF WALL FLASHING SEQUENCE (OPTION 1) - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-004 (3D-1)

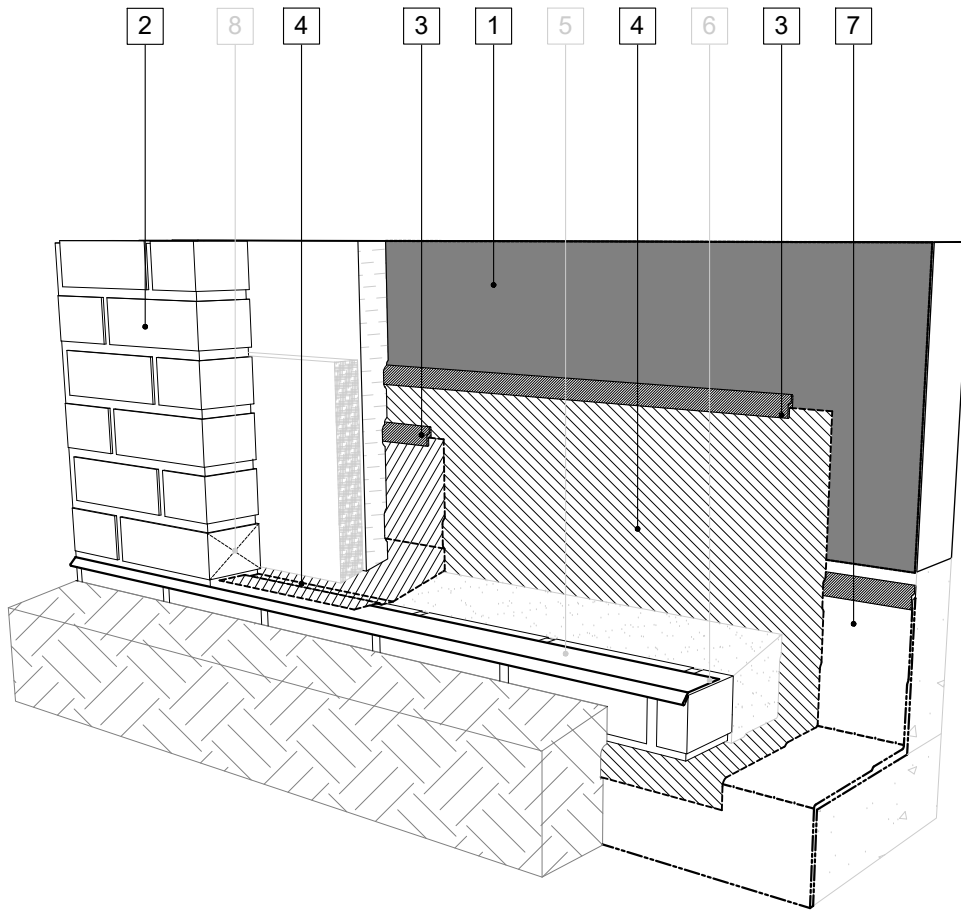
SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)**
3. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD**
4. **PERM-A-BARRIER® WALL FLASHING**
5. SHEET METAL FLASHING PER ARCH
6. GROUT SOLID TO HEIGHT OF CURB - SLOPE TOP
7. **BELOW GRADE WATERPROOFING SYSTEM - SEE GCPAT.COM**
8. MASONRY WEEP/VENT



SEE VPS30-004 (OPTION 2) FOR 2D DETAIL

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



BASE OF WALL FLASHING SEQUENCE (OPTION 2) - MASONRY CLADDING

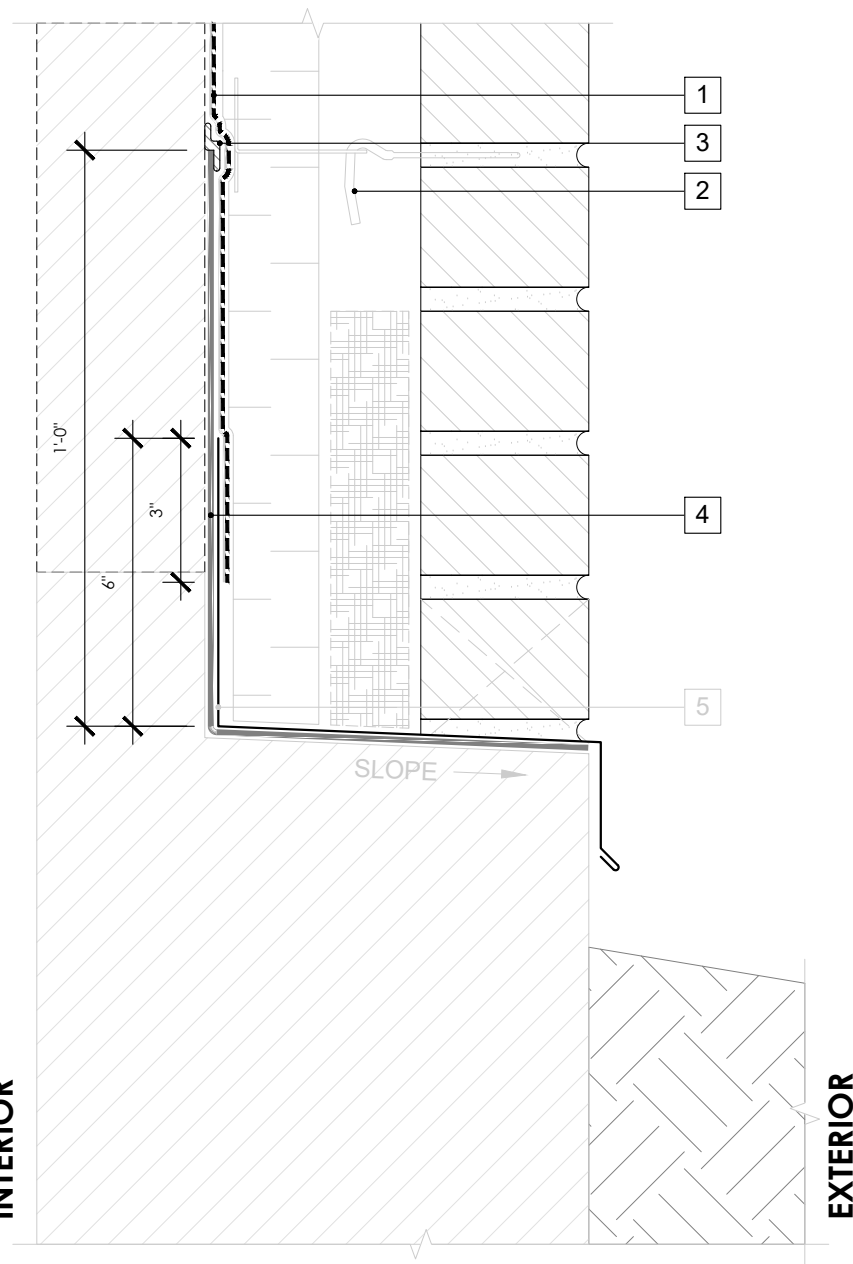
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-004 (3D-2)

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. PERM-A-BARRIER® VPS 30 MEMBRANE
2. MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)
3. BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD
4. PERM-A-BARRIER® WALL FLASHING
5. SHEET METAL FLASHING PER ARCH

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



BASE OF WALL DETAIL (ALTERNATE 1) - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-004 (ALT 1)

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

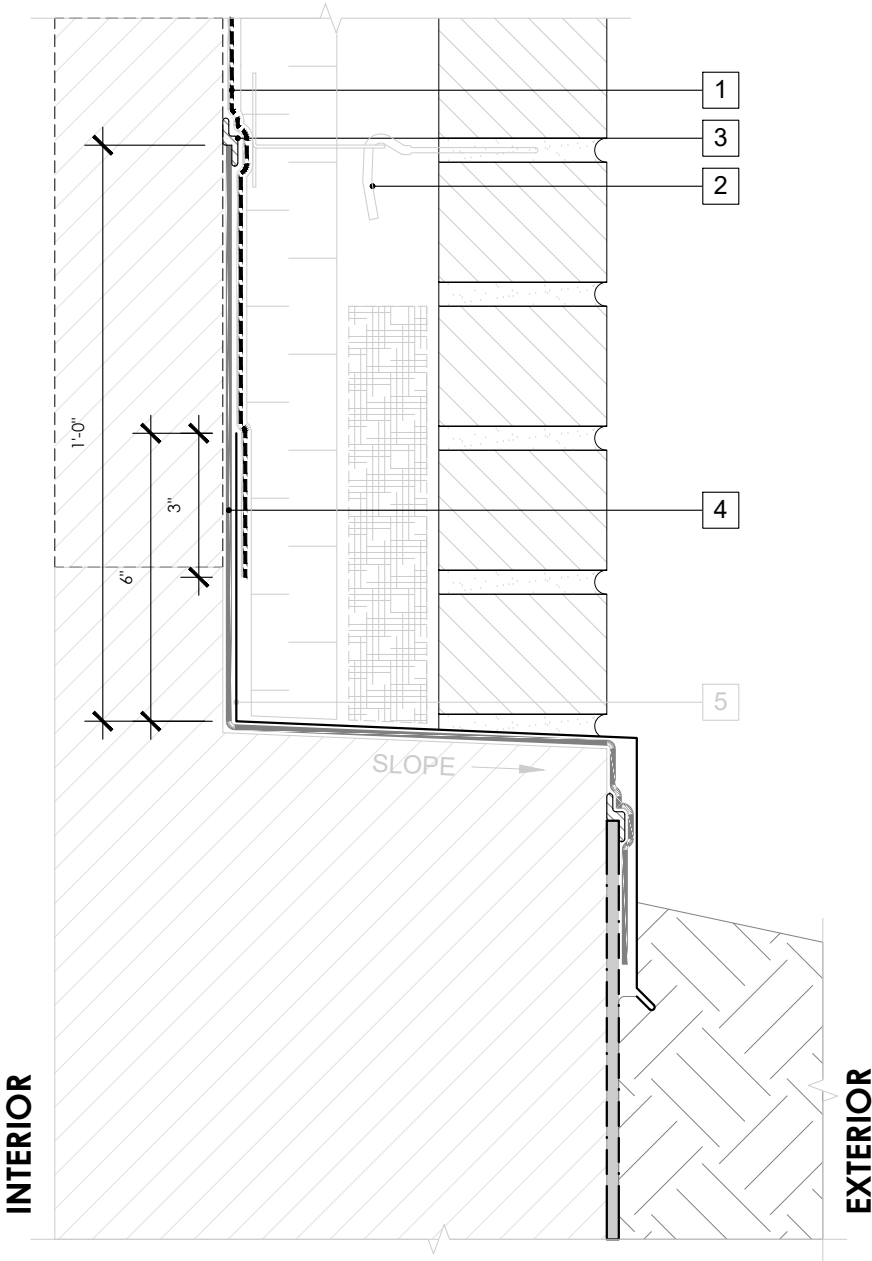
SUPERCEDES: NEW

LEGEND

- 1. PERM-A-BARRIER® VPS 30 MEMBRANE
- 2. MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)
- 3. BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD
- 4. PERM-A-BARRIER® WALL FLASHING
- 5. SHEET METAL FLASHING PER ARCH

NOTE

- CONSULT GCP FOR BELOW GRADE WATERPROOFING COMPATIBILITY AND CONNECTION



GENERAL NOTES

- Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.

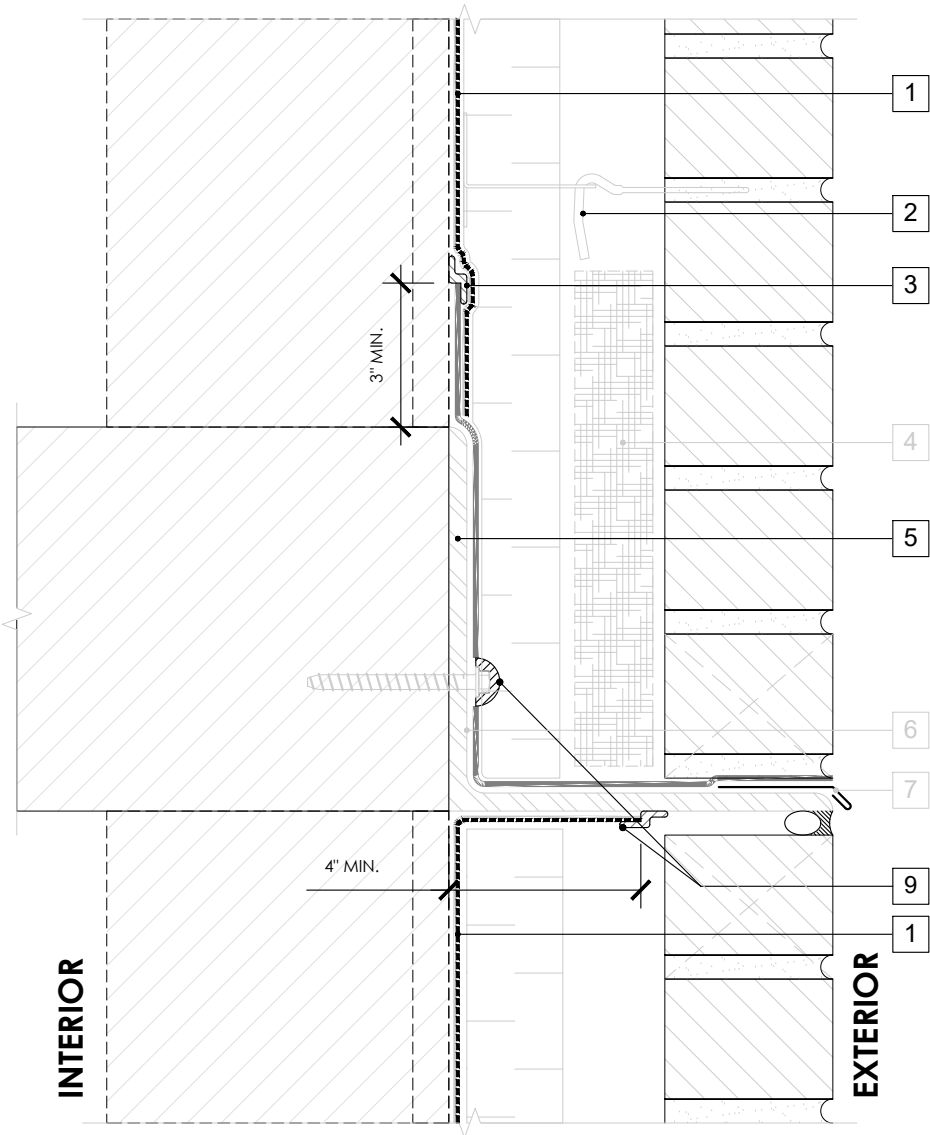


BASE OF WALL DETAIL (ALTERNATE 2) -
MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-004 (ALT 2)
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

OPTION 1

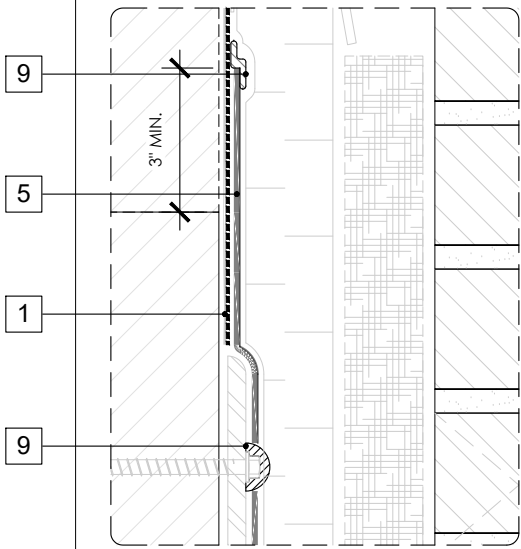


SEE VPS30-005 (3D-1) FOR 3D DETAIL

LEGEND

1. **PERM-A-BARRIER® VPS 30**
MEMBRANE
2. **MASONRY ANCHOR DETAILING (SEE**
DRAWING VPS30-006)
3. **BITUTHENE MASTIC, BITUTHENE**
LIQUID MEMBRANE, OR GCP
APPROVED SEALANT, 1-INCH
TROWELED BEAD
4. **MORTAR COLLECTION MESH**
5. **PERM-A-BARRIER® WALL FLASHING**
(STAR CUT AT BOLT), PRIME
SUBSTRATE WHERE REQUIRED
6. **CONTINUOUS SHELF ANGLE**
SUPPORT PER STRUCTURAL
7. **SHEET METAL FLASHING PER ARCH**
8. **GASKETED WASHER**
9. **PERM-A-BARRIER® S100, BITUTHENE**
MASTIC, BITUTHENE LIQUID
MEMBRANE, OR GCP APPROVED
SEALANT

OPTION 2



SEE VPS30-005 (3D-2) FOR 3D DETAIL

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



FLOOR LINE DETAIL -
MASONRY CLADDING

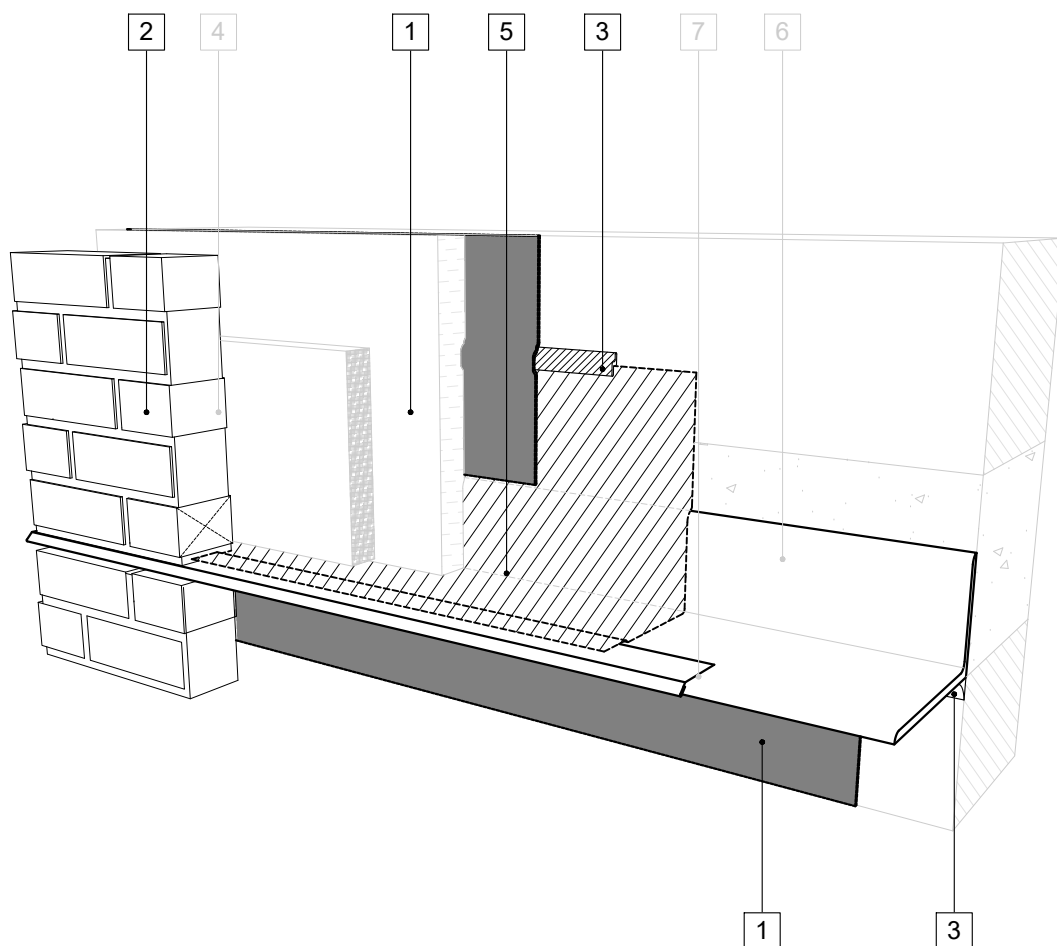
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-005

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)**
3. **BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD**
4. MORTAR COLLECTION MESH
5. **PERM-A-BARRIER® WALL FLASHING, PRIME SUBSTRATE WHERE REQUIRED**
6. CONTINUOUS SHELF ANGLE SUPPORT PER STRUCTURAL
7. SHEET METAL FLASHING PER ARCH

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



FLOOR LINE FLASHING SEQUENCE (OPT. 1) - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-005 (3D-1)

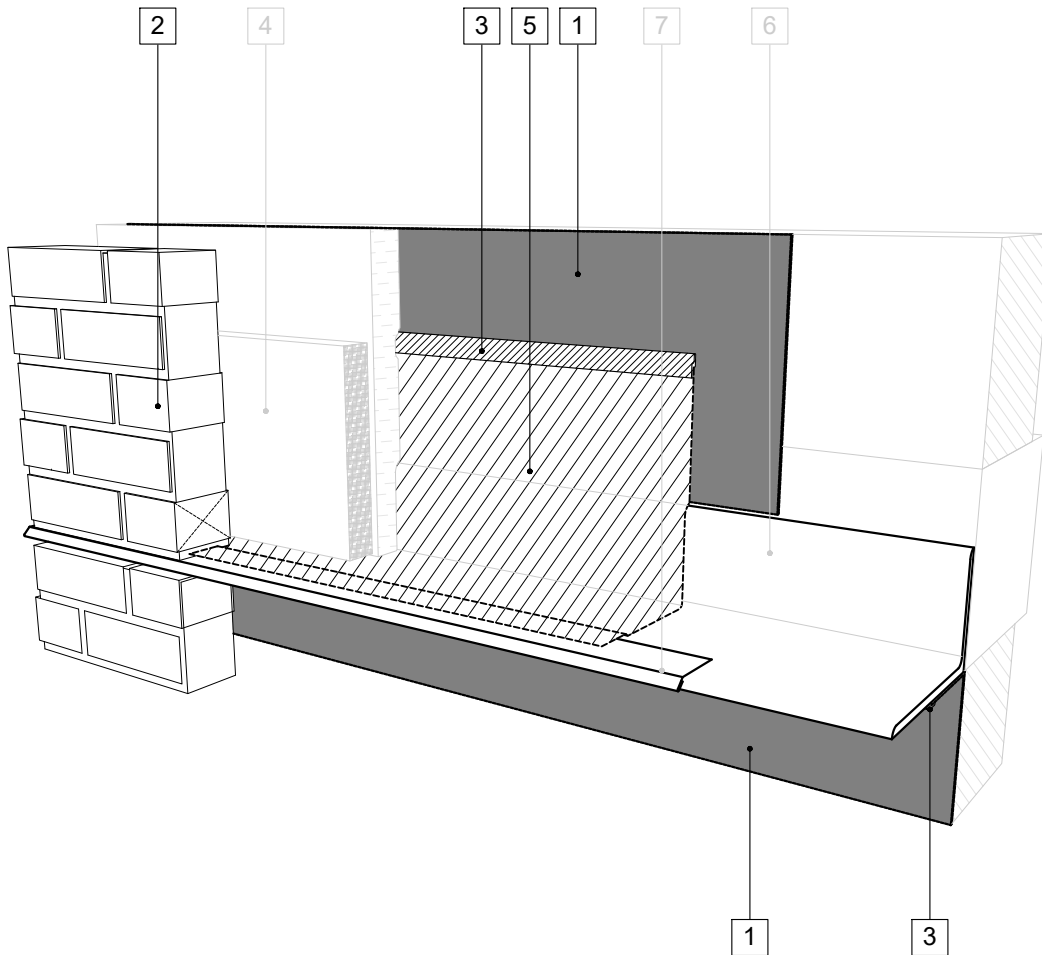
SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **MASONRY ANCHOR DETAILING (SEE DRAWING VPS30-006)**
3. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, 1-INCH TROWELED BEAD**
4. MORTAR COLLECTION MESH
5. **PERM-A-BARRIER® WALL FLASHING, PRIME SUBSTRATE WHERE REQUIRED**
6. CONTINUOUS SHELF ANGLE SUPPORT PER STRUCTURAL
7. SHEET METAL FLASHING PER ARCH



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



FLOOR LINE FLASHING SEQUENCE (OPT. 2) - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

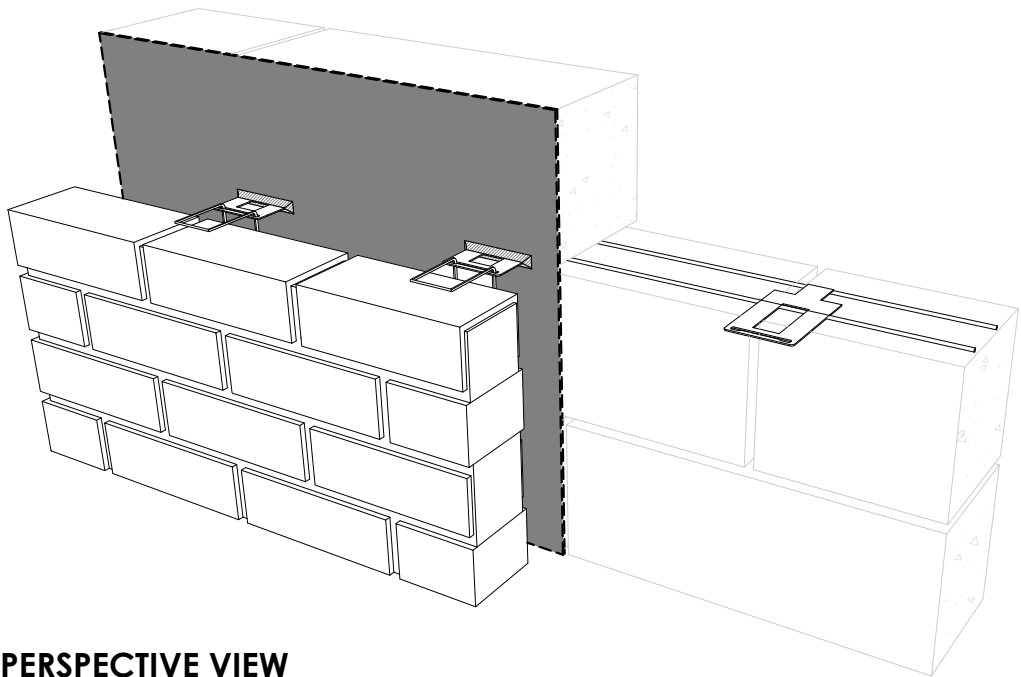
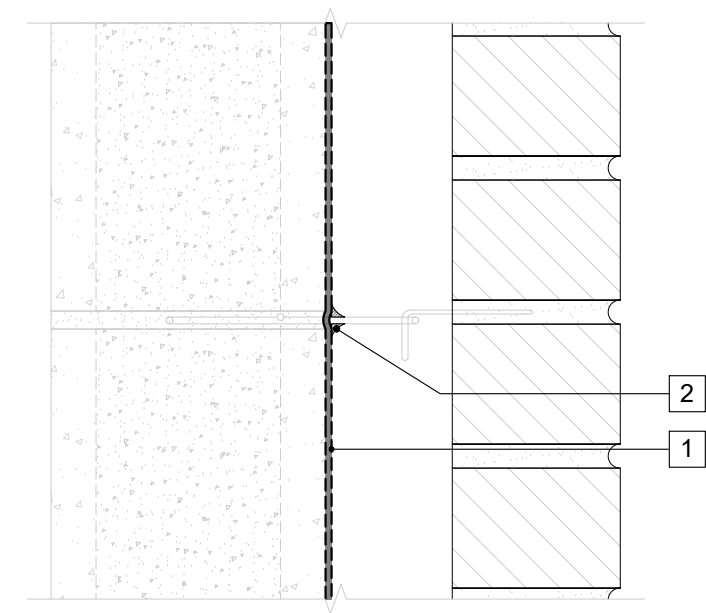
DRAWING: VPS30-005 (3D-2)

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

SECTION VIEW



PERSPECTIVE VIEW

LEGEND

- 1. PERM-A-BARRIER® VPS 30 MEMBRANE
- 2. PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT FILLET SURROUNDING WIRE TIE PENETRATION

GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



MASONRY ANCHOR DETAIL -
CMU SUBSTRATE

PERM-A-BARRIER® VPS 30

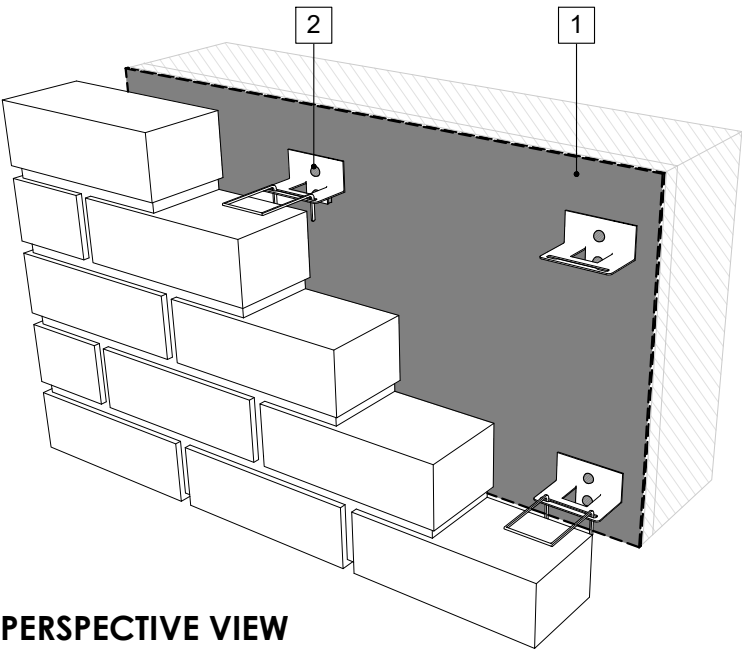
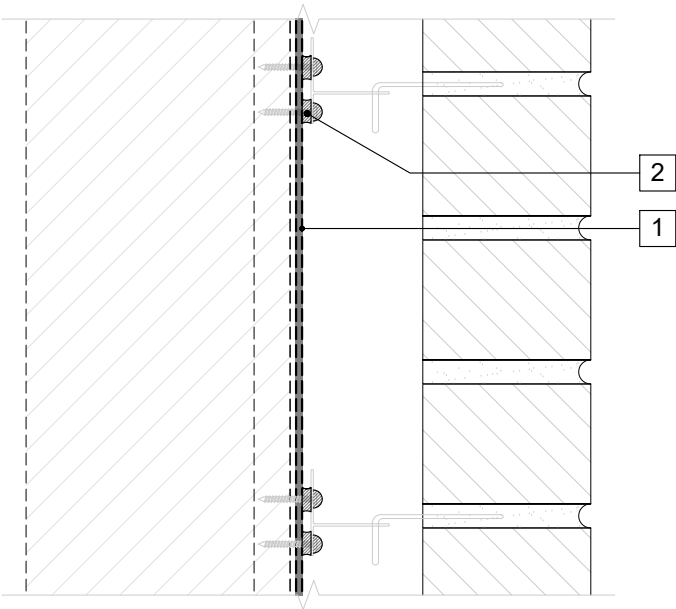
DRAWING: VPS30-006A

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

SECTION VIEW



PERSPECTIVE VIEW

LEGEND

- 1. PERM-A-BARRIER® VPS 30 MEMBRANE
- 2. PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT AROUND FASTENER AT FRONT AND BACK FACE OF MASONRY ANCHOR

GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

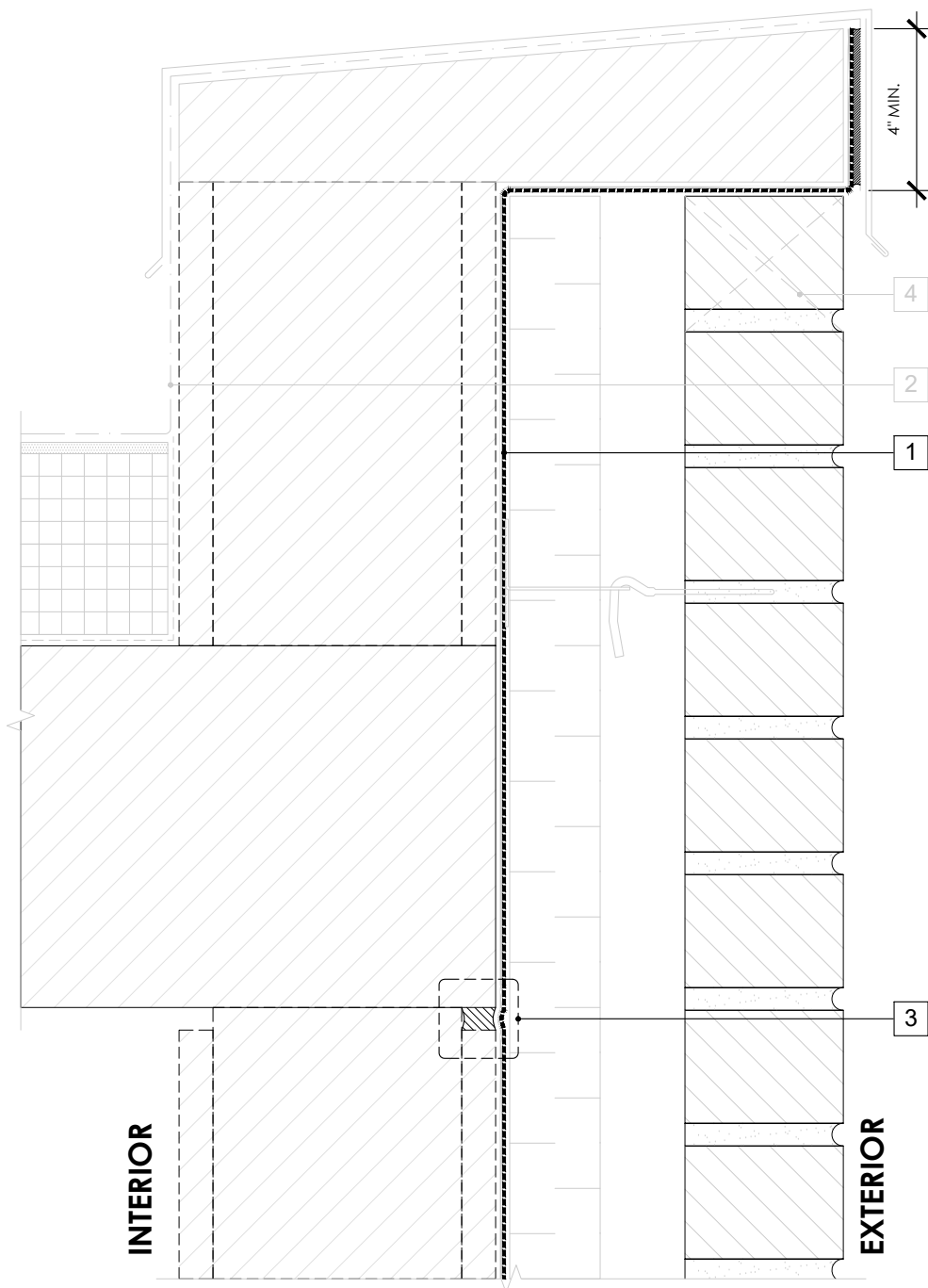
Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



MASONRY ANCHOR DETAIL -
FRAMED SUBSTRATE

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-006B
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. ROOF MEMBRANE AND ROOF DETAILS
3. SEE CONTROL JOINT DETAIL VPS30-009
4. MASONRY WEEP/VENT

NOTE

- CONSULT GCP & ROOFING MANUFACTURER FOR COMPATIBILITY AND CONNECTION AT ROOF INTERFACE

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



PARAPET DETAIL - MASONRY CLADDING

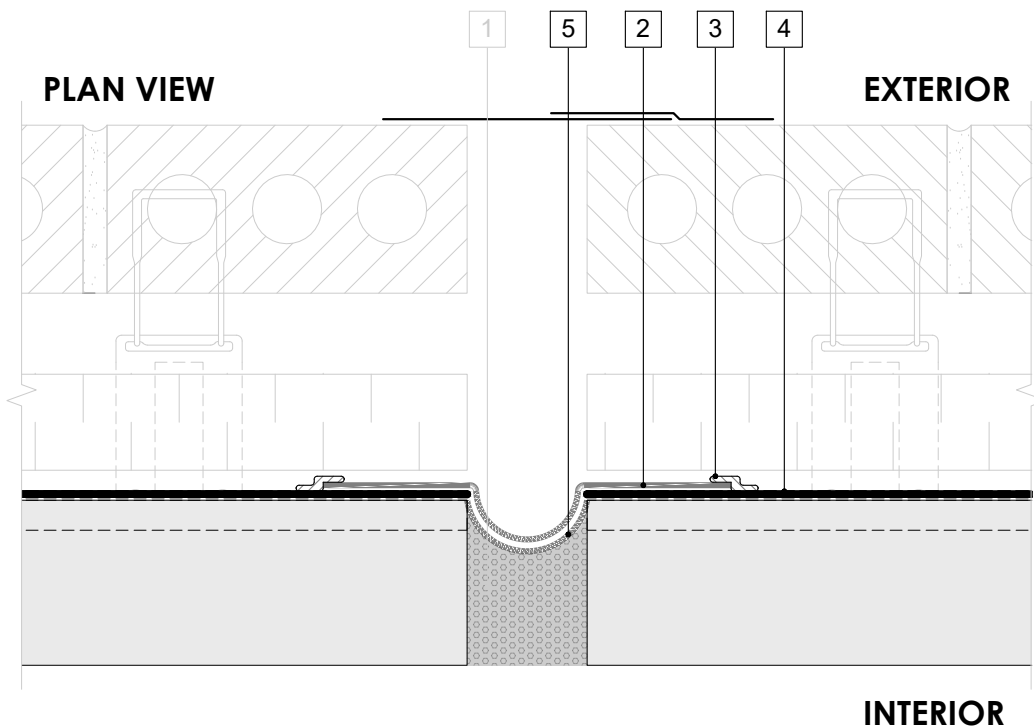
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-007

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

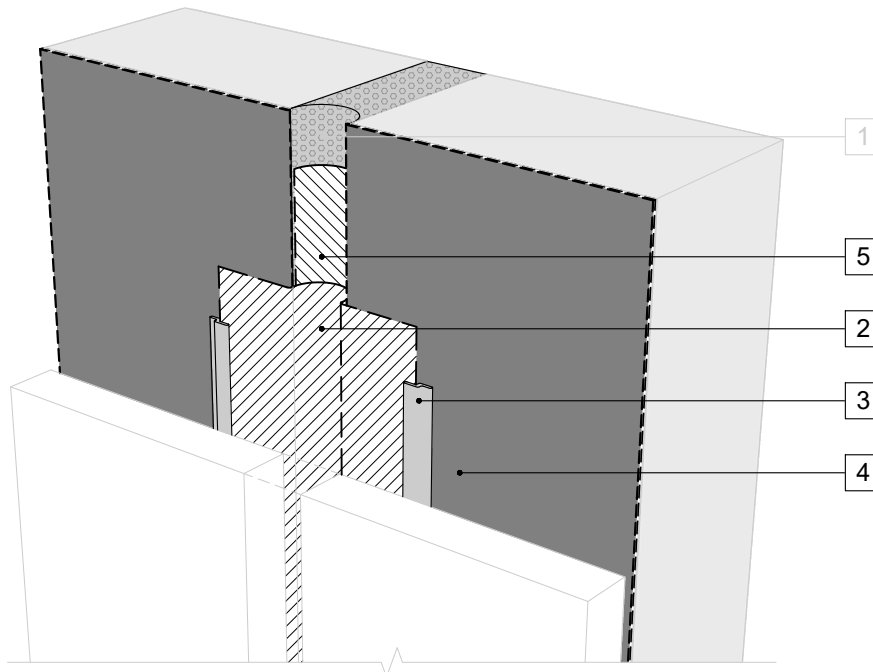


LEGEND

1. COMPRESSIBLE JOINT FILLER - MAXIMUM 4-INCH WIDE JOINT CAPABLE OF A MAXIMUM 50% MOVEMENT IN COMPRESSION AND ELONGATION
2. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
3. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH WIDE TROWELED BEAD**
4. **PERM-A-BARRIER® VPS 30 MEMBRANE**
5. **PERM-A-BARRIER® SELF-ADHERED FLASHING* INVERTED STRIP**

NOTE

- WIDTH OF THE INVERTED STRIP SHALL BE TWICE THE WIDTH OF THE EXPANSION JOINT TO ACCOMMODATE MOVEMENT - ALL SEAMS, OVERLAPS, JOINTS, AND EDGES SEALED WITH S100
- MAXIMUM 4 INCH WIDE JOINT CAPABLE OF A MAXIMUM 50% MOVEMENT IN COMPRESSION AND ELONGATION
- CLADDING AND CLOSURE BY OTHERS NOT SHOWN FOR CLARITY



PERSPECTIVE VIEW

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



CONTROL JOINT DETAIL - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

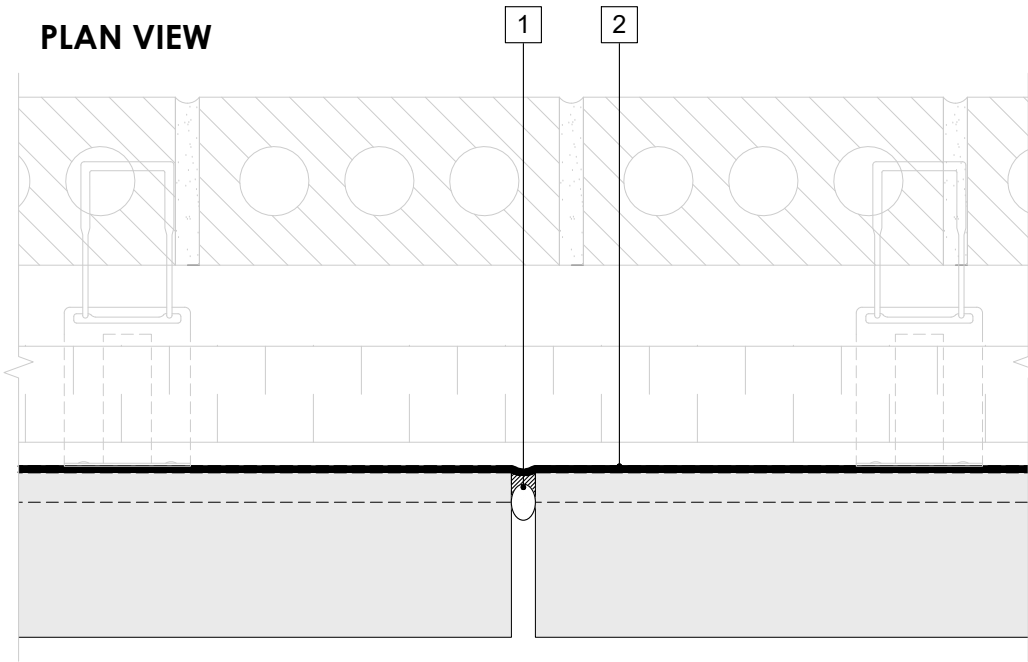
DRAWING: VPS30-008

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

PLAN VIEW

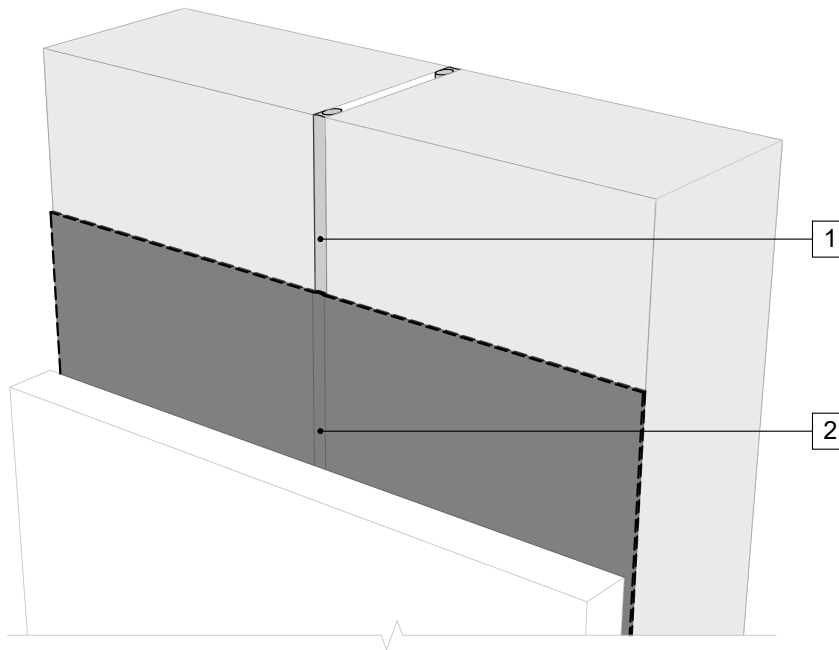


LEGEND

1. BACKER ROD AND COMPATIBLE SEALANT
2. PERM-A-BARRIER® VPS 30 MEMBRANE

NOTE

- MAX 1/2-INCH JOINT CAPABLE OF MAXIMUM 10% MOVEMENT IN COMPRESSION AND ELONGATION



PERSPECTIVE VIEW

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



CONTROL JOINT DETAIL - MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-009

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

OPTION 1



INTERIOR

EXTERIOR

1. PERM-A-BARRIER® VPS 30 MEMBRANE

2. CLADDING ATTACHMENT, CONFIRM
DETAILING REQUIREMENTS WITH THE
GCPAT REPRESENTATIVE
3. **BITUTHENE MASTIC, BITUTHENE
LIQUID MEMBRANE, OR GCP
APPROVED SEALANT - 1-INCH WIDE
TROWELED BEAD**
4. **PERM-A-BARRIER® SELF-ADHERED
FLASHING***
5. SHEET METAL FLASHING PER ARCH
6. **PERM-A-BARRIER® S100, BITUTHENE
MASTIC, BITUTHENE LIQUID
MEMBRANE, OR GCP APPROVED
SEALANT**

3" MIN.

3" MIN.

This technical drawing shows a cross-section of a door threshold. A dashed line indicates a 3-inch minimum clearance from the bottom of the door to the top of the threshold. The threshold itself is shown with a cross-hatched pattern. The door is shown with a solid pattern. The drawing is labeled with '3" MIN.' twice, indicating the minimum clearance on both sides of the threshold.

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.



PERM-A-BARRIER® VPS 30

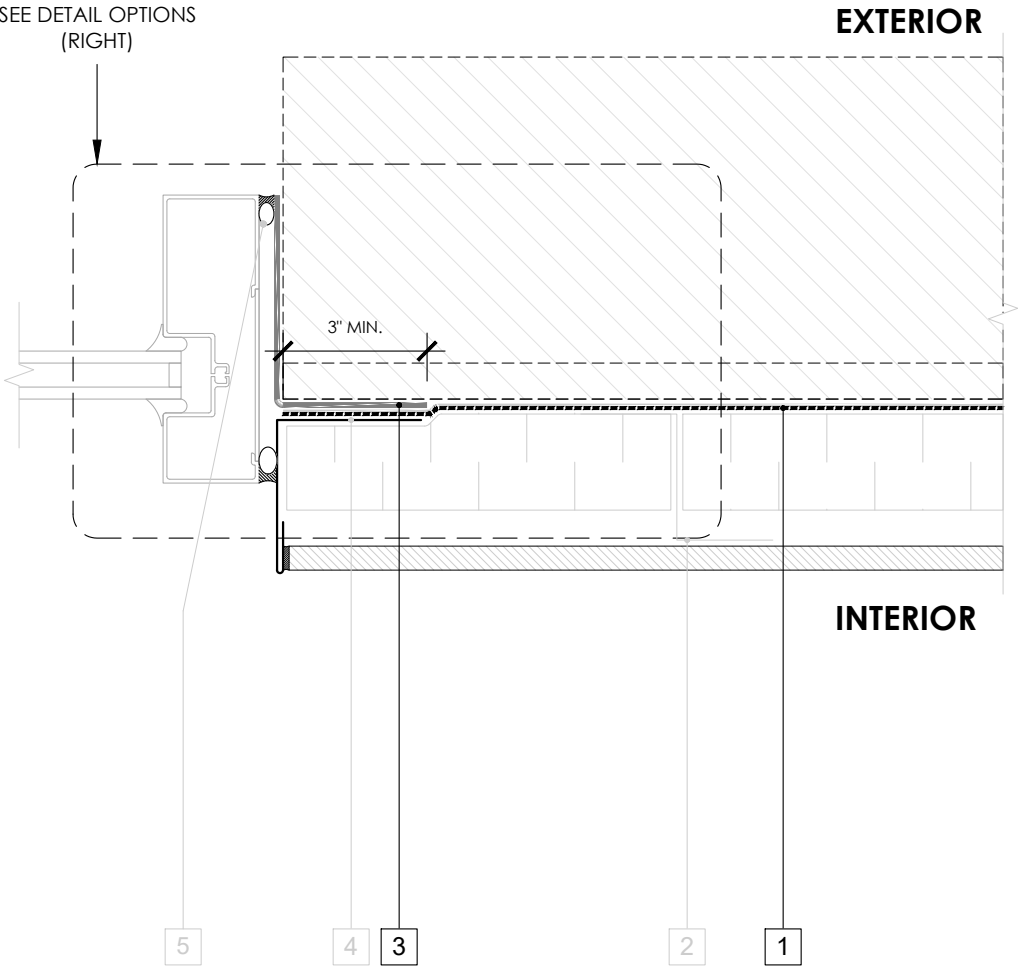
DRAWING: VPS30-010

SCALE: $3'' = 1'$

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

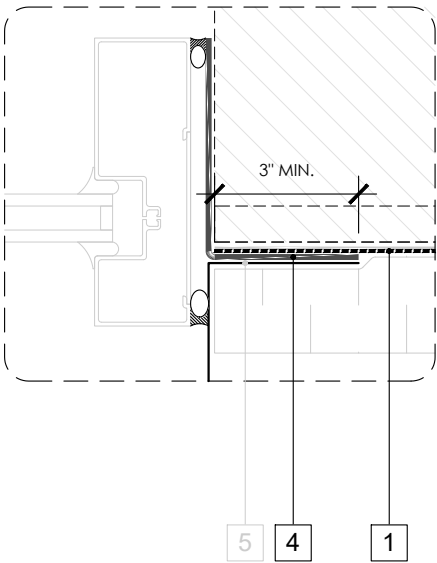
OPTION 1



LEGEND

1. **PERM-A-BARRIER® VPS**
2. CLADDING ATTACHMENT, CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE
3. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
4. SHEET METAL FLASHING PER ARCH
5. INTERIOR AIR SEALANT OVER BACKER ROD

OPTION 2



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



WINDOW JAMB DETAIL -
NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

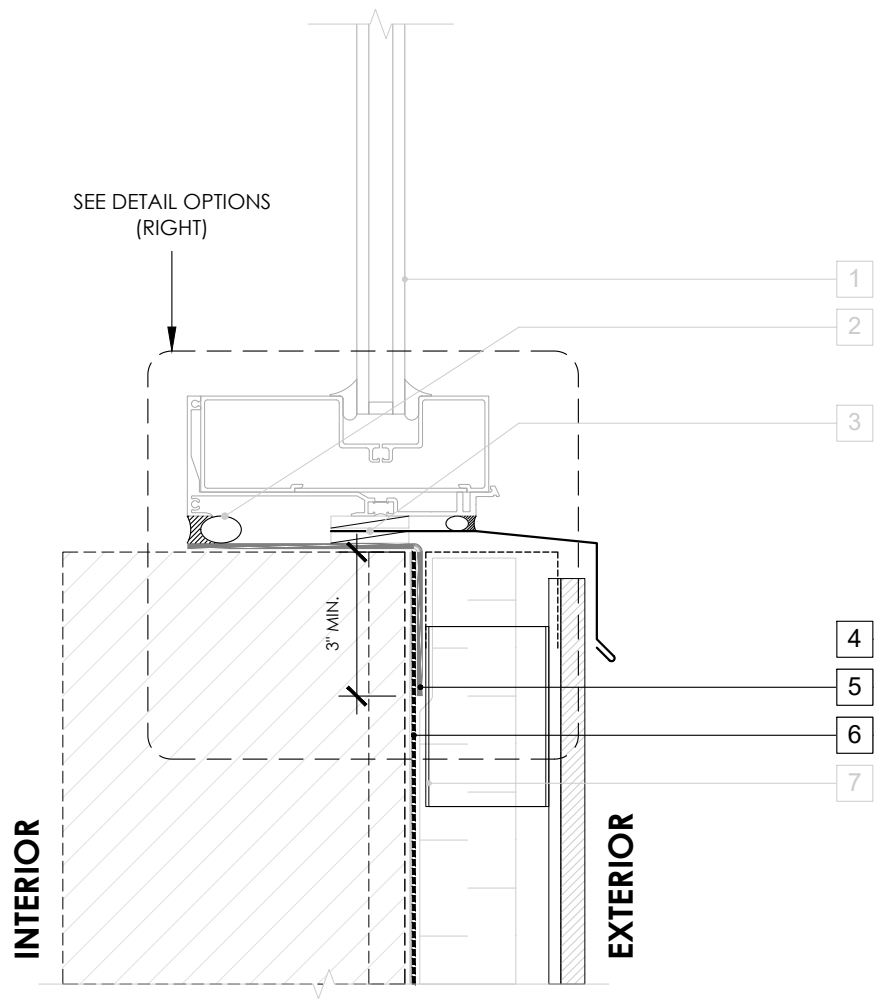
DRAWING: VPS30-011

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

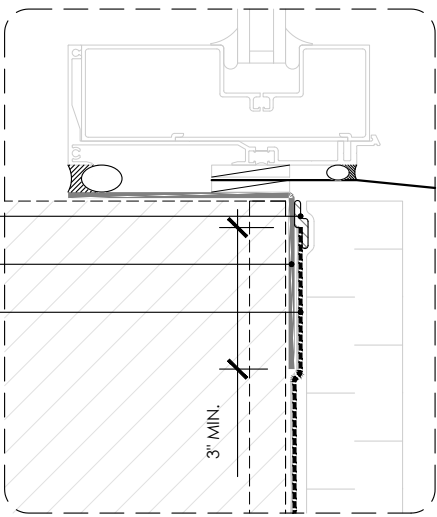
OPTION 1



LEGEND

- 1. NON-FLANGED WINDOW SYSTEM
- 2. INTERIOR AIR SEALANT OVER BACKER ROD
- 3. SHEET METAL FLASHING SANDWICHED BETWEEN INTERMITTENT SHIMS
- 4. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH WIDE TROWELED BEAD**
- 5. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
- 6. **PERM-A-BARRIER® VPS 30 MEMBRANE**
- 7. CLADDING ATTACHMENT - CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE

OPTION 2



GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



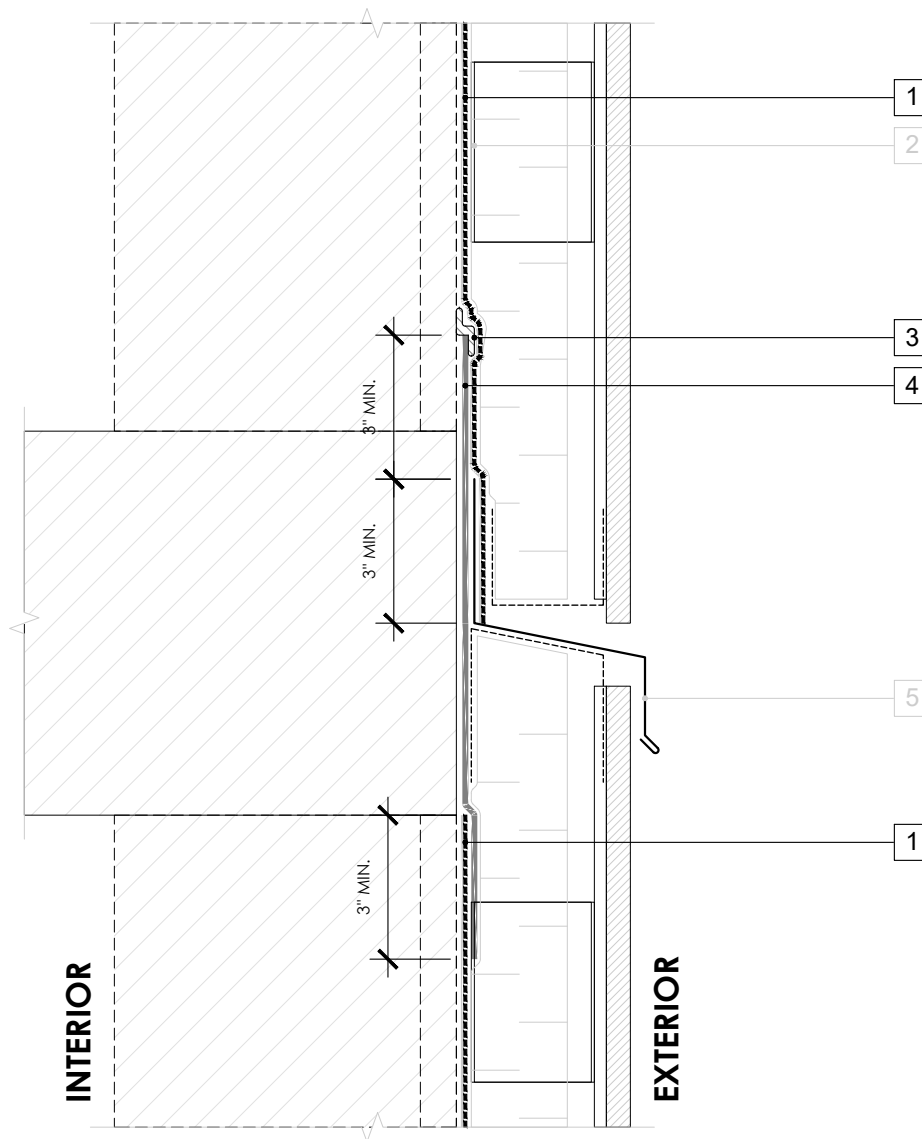
WINDOW SILL DETAIL -
NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-012
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT - CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE
3. **BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH TROWELED BEAD**
4. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
5. SHEET METAL FLASHING PER ARCH



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



FLOOR LINE DETAIL - NON-MASONRY CLADDING

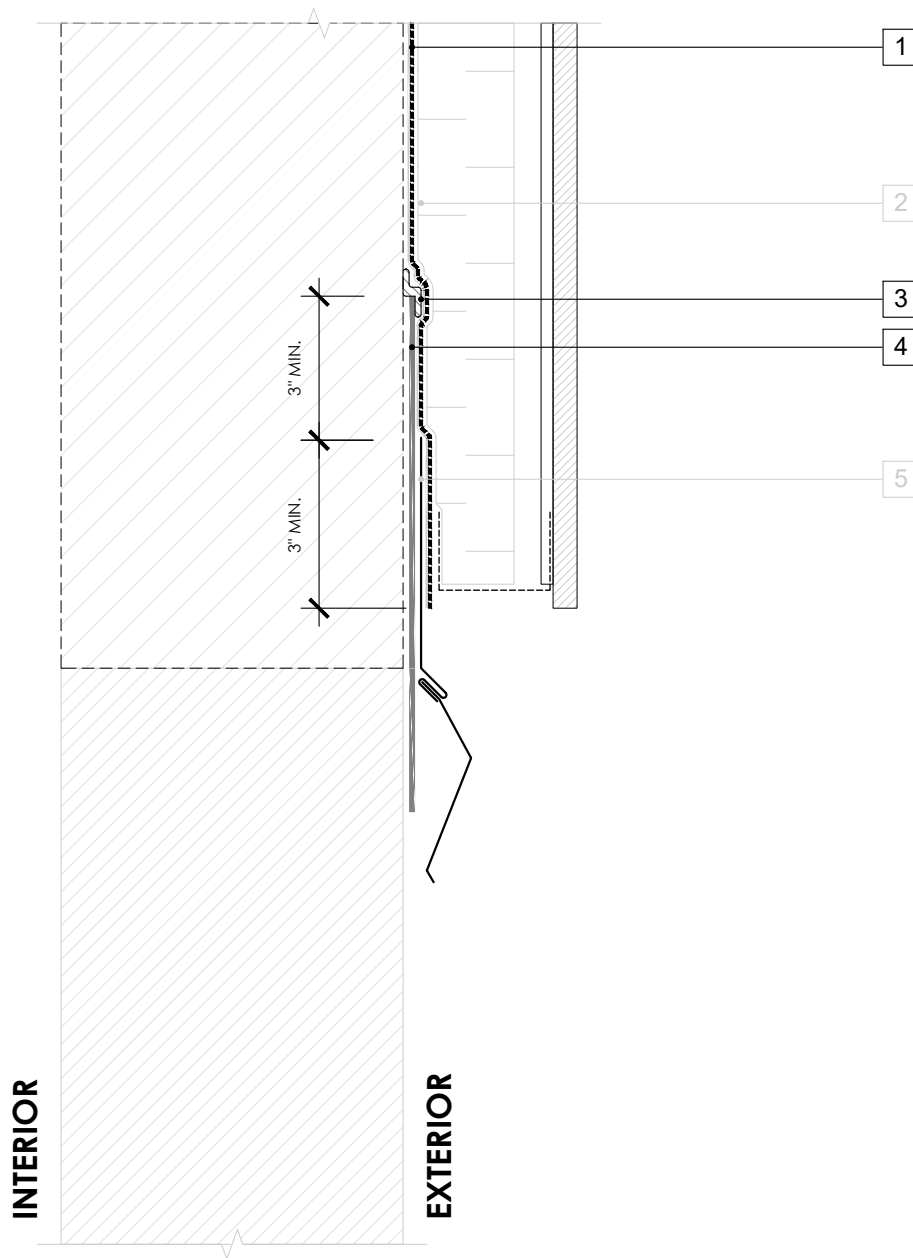
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-013

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT - CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE
3. **BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH TROWELED BEAD**
4. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
5. TWO-PIECE SHEET METAL FLASHING PER ARCH

NOTE

- CONFIRM MAXIMUM SERVICE TEMPERATURE OF PERM-A-BARRIER PRODUCTS DIRECTLY UNDER EXPOSED METAL FLASHING

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



CONCRETE STEM WALL DETAIL - NON-MASONRY CLADDING

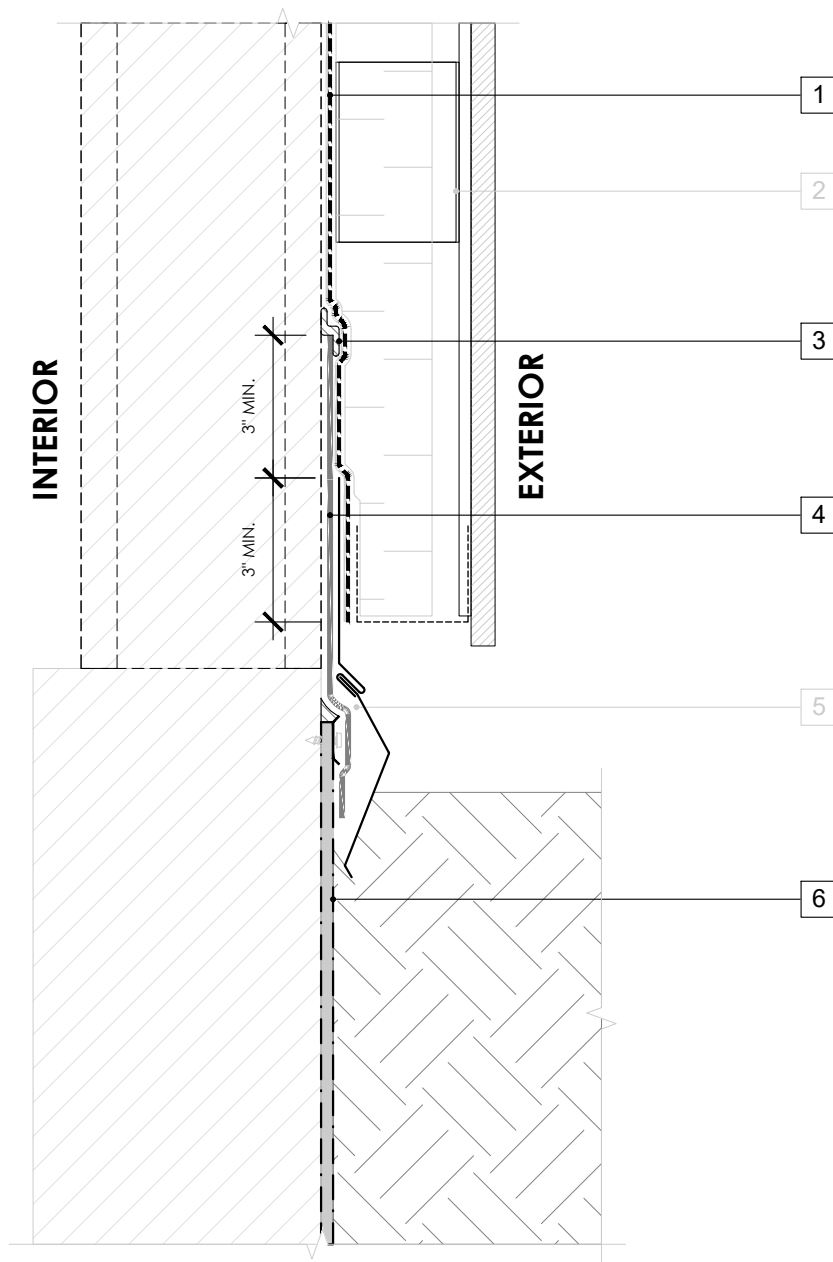
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-014

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT -
CONFIRM DETAILING REQUIREMENTS
WITH THE GCPAT REPRESENTATIVE
3. **BITUTHENE MASTIC, BITUTHENE
LIQUID MEMBRANE, OR GCP
APPROVED SEALANT - 1-INCH
TROWELED BEAD**
4. **PERM-A-BARRIER® SELF-ADHERED
FLASHING***
5. TWO-PIECE SHEET METAL FLASHING
PER ARCH
6. **BELOW GRADE WATERPROOFING
SYSTEM - SEE GCPAT.COM**

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



BASE-OF-WALL AT GRADE DETAIL - NON-MASONRY CLADDING

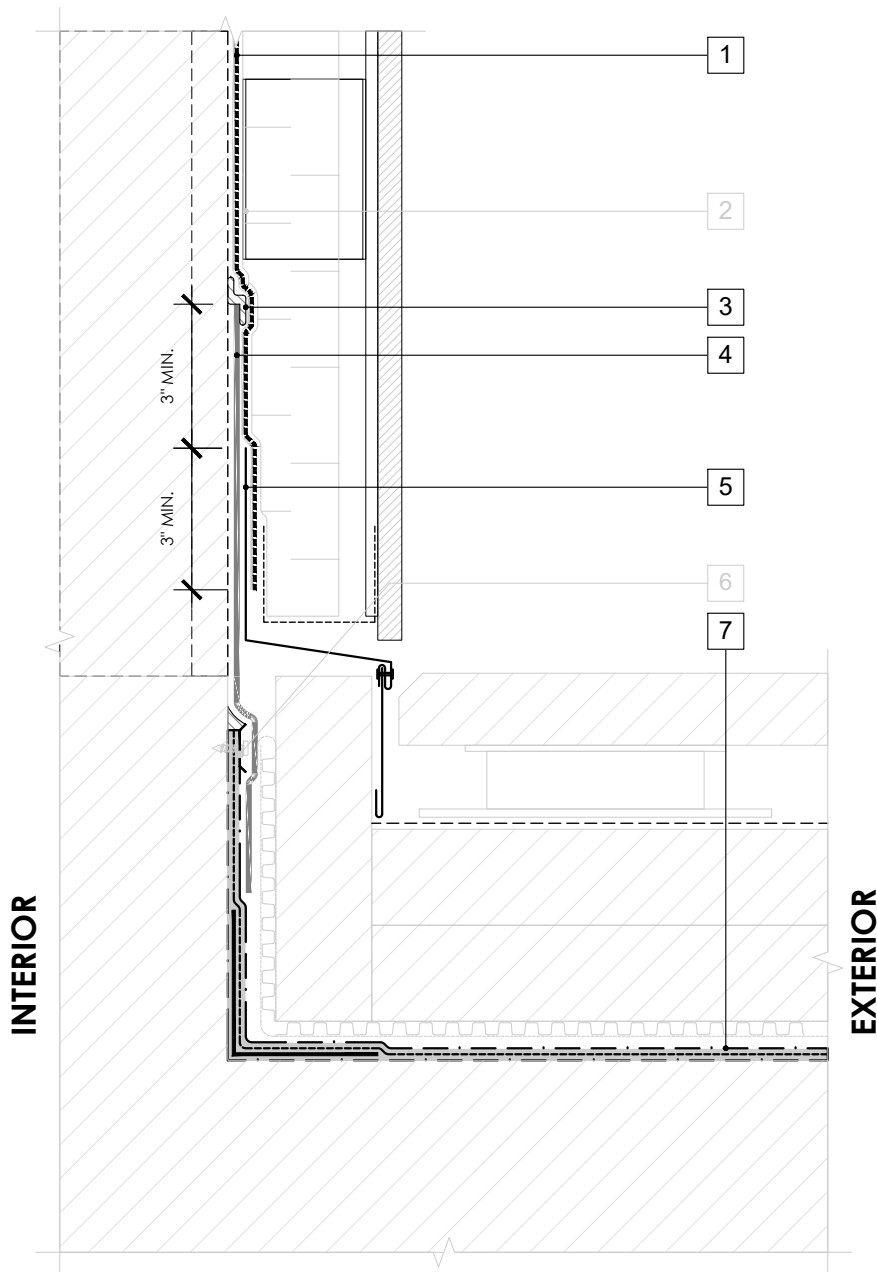
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-015

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT -
CONFIRM DETAILING REQUIREMENTS
WITH THE GCPAT REPRESENTATIVE
3. **BITUTHENE MASTIC, BITUTHENE
LIQUID MEMBRANE, OR GCP
APPROVED SEALANT - 1-INCH
TROVELED BEAD**
4. **PERM-A-BARRIER® SELF-ADHERED
FLASHING***
5. SHEET METAL FLASHING PER ARCH
6. TERMINATION PER HORIZONTAL
WATERPROOFING SYSTEM
MANUFACTURER
7. **HORIZONTAL WATERPROOFING
SYSTEM - SEE GCPAT.COM**

NOTE

- CONSULT GCP FOR HORIZONTAL
WATERPROOFING COMPATIBILITY
AND CONNECTION

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



BASE-OF-WALL DETAIL - NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-016

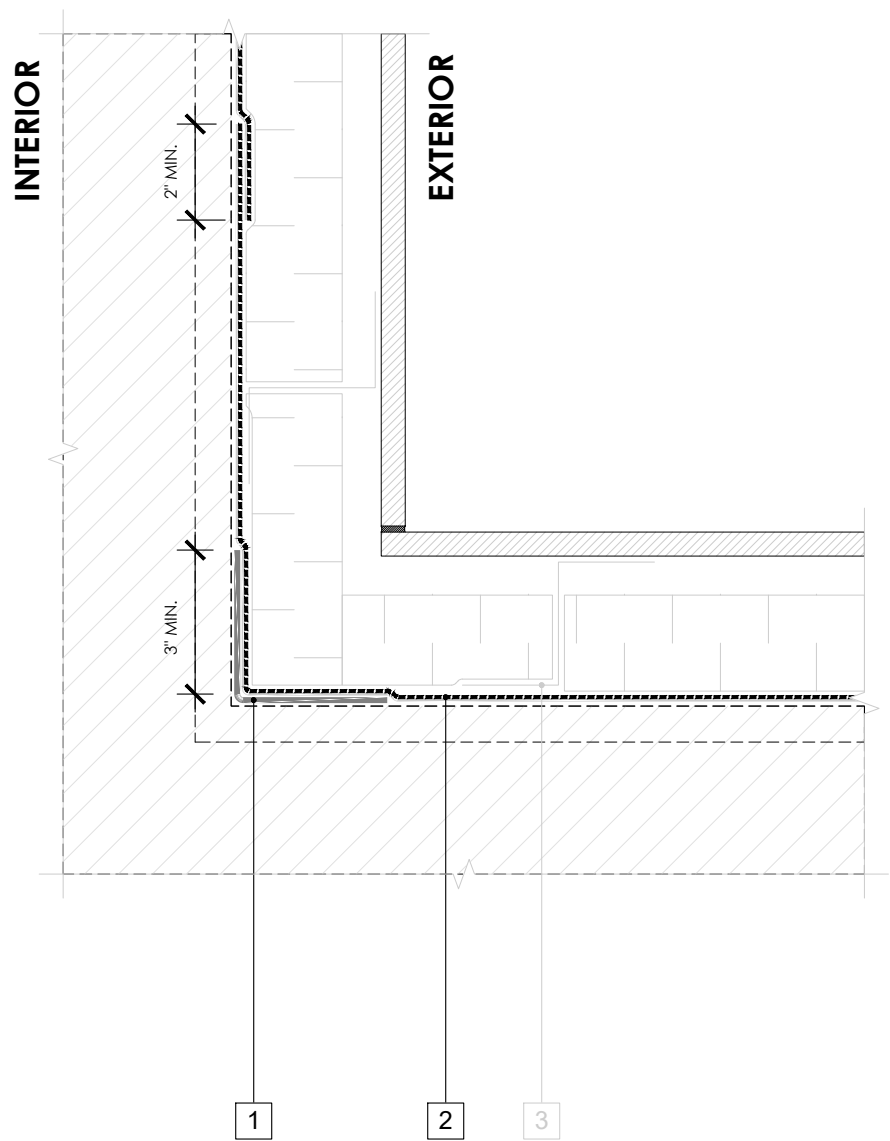
SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

LEGEND

- 1. PERM-A-BARRIER® SELF-ADHERED FLASHING*. PRIME SUBSTRATE WHERE REQUIRED
- 2. PERM-A-BARRIER® VPS 30 MEMBRANE
- 3. CLADDING ATTACHMENT - DETAIL PER GCPAT REQUIREMENTS



GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



INSIDE CORNER DETAIL -
NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-017

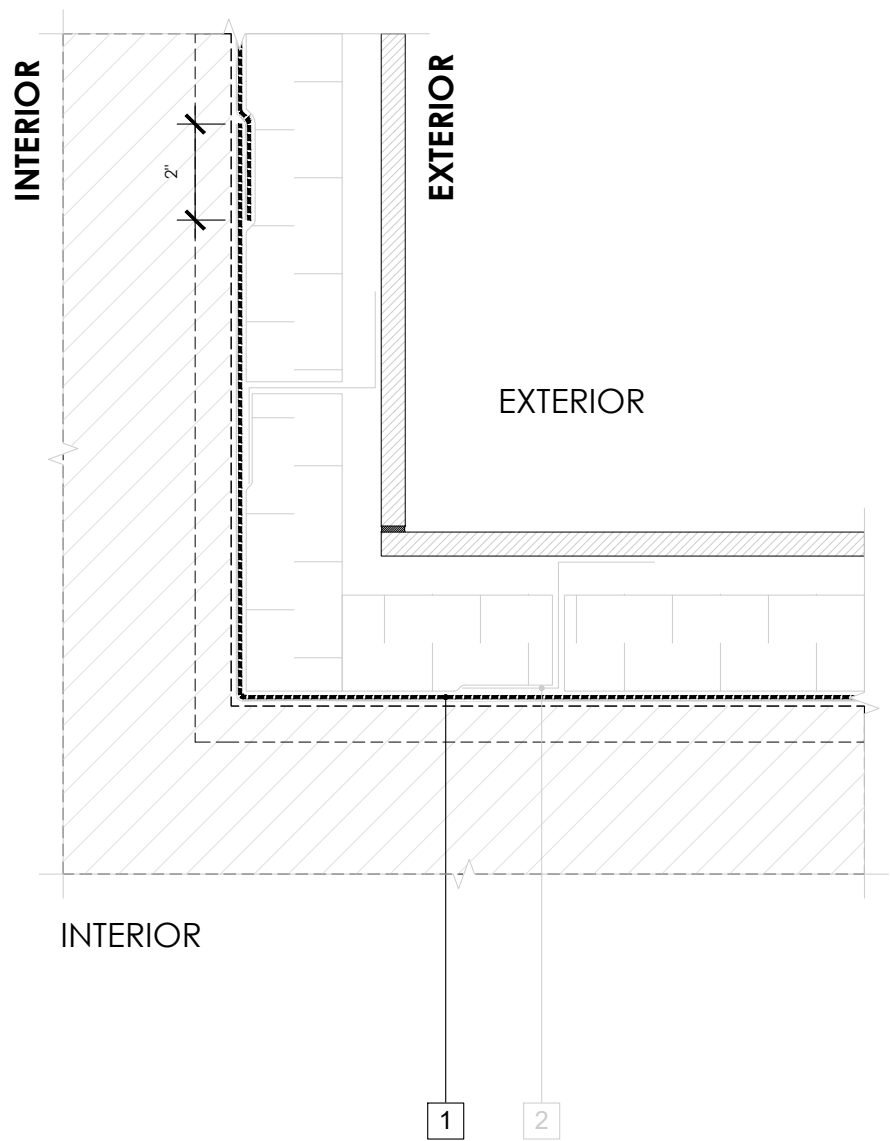
SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

LEGEND

- 1. PERM-A-BARRIER® VPS 30 MEMBRANE
- 2. CLADDING ATTACHMENT - DETAIL PER GCPAT REQUIREMENTS



GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

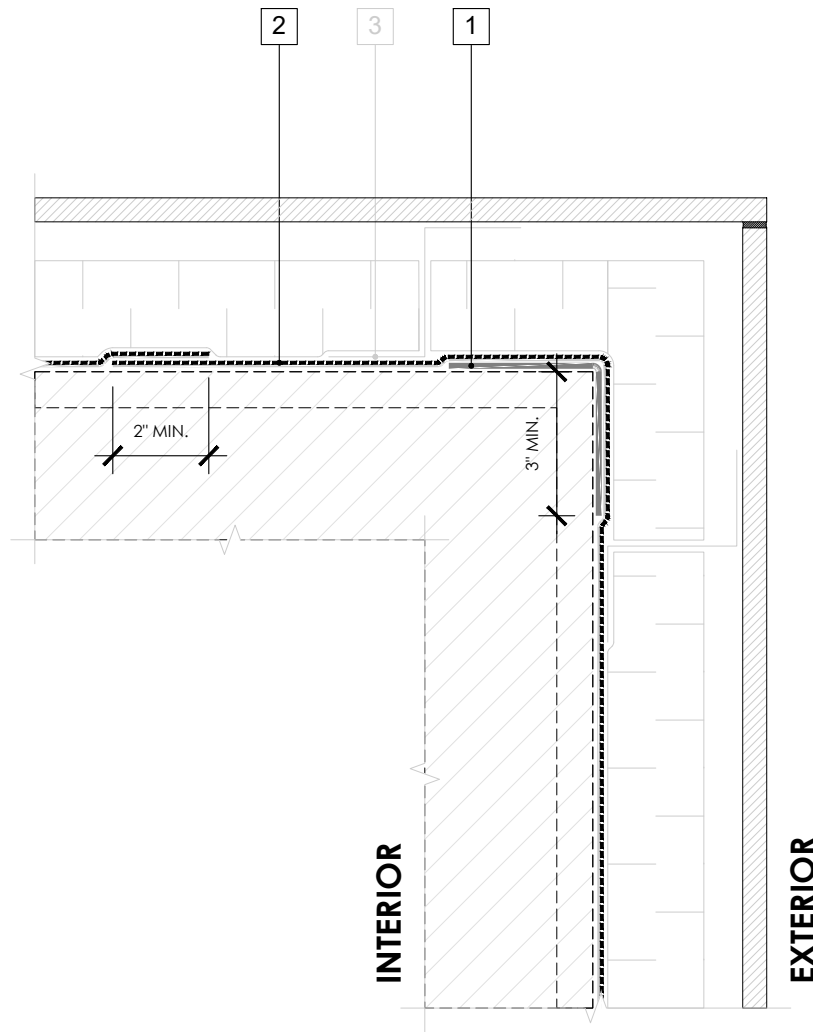
Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



INSIDE CORNER DETAIL (ALTERNATE) -
NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-017 (ALT)
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW



LEGEND

1. **PERM-A-BARRIER® DETAIL MEMBRANE, NPS DETAIL MEMBRANE, ALUMINUM FLASHING, OR WALL FLASHING. PRIME SUBSTRATE WHERE REQUIRED**
2. **PERM-A-BARRIER® VPS 30 MEMBRANE**
3. CLADDING ATTACHMENT - DETAIL PER GCPAT REQUIREMENTS

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



OUTSIDE CORNER DETAIL - NON-MASONRY CLADDING

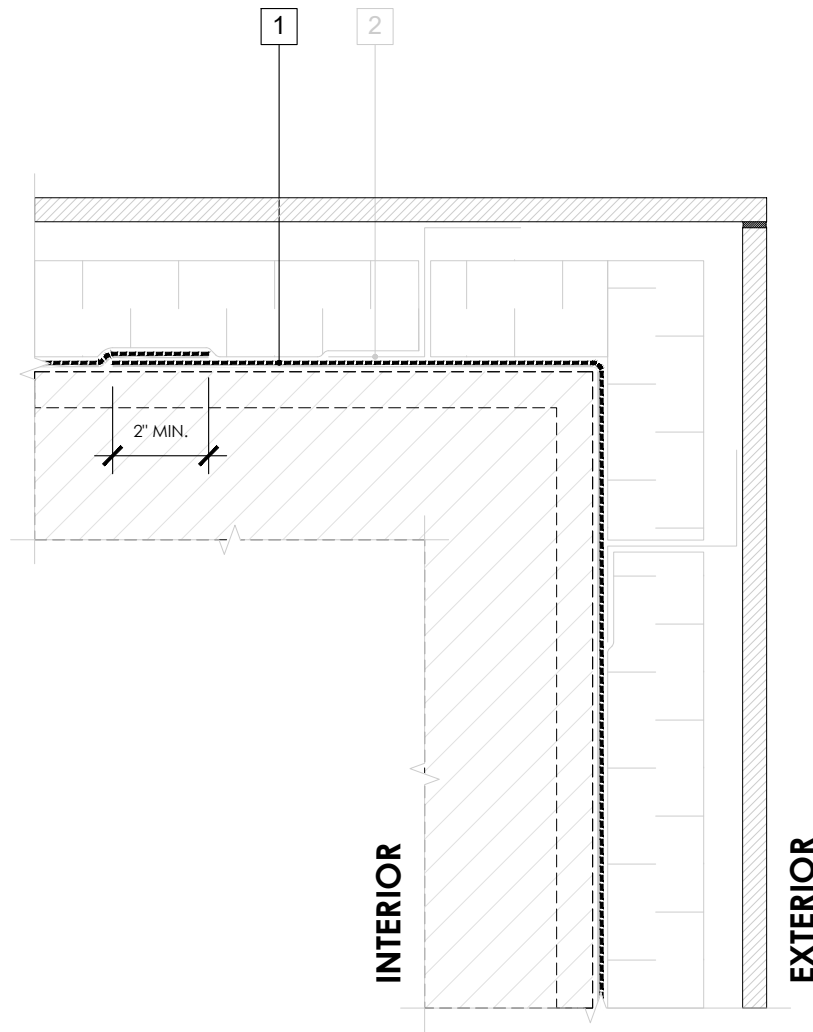
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-018

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT - DETAIL PER GCPAT REQUIREMENTS

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



OUTSIDE CORNER DETAIL (ALTERNATE) - NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

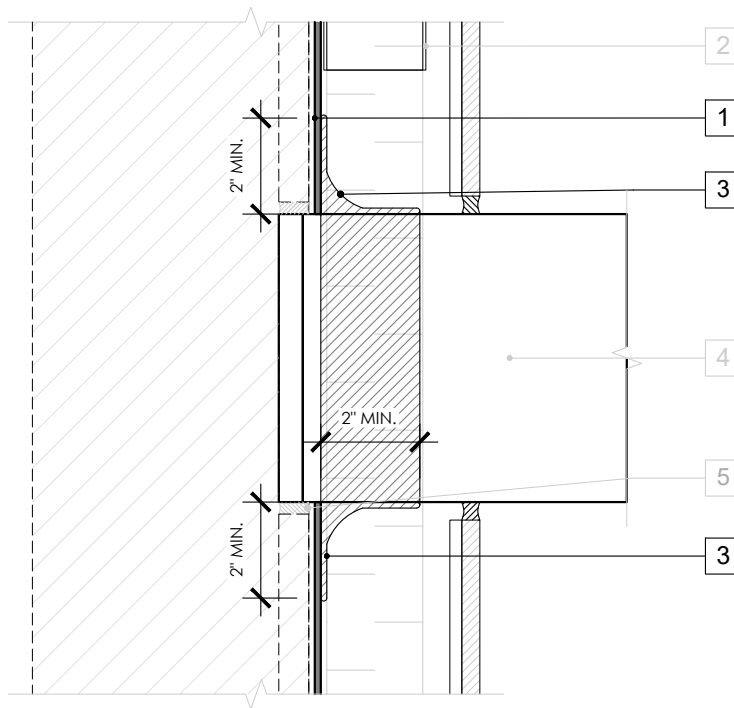
DRAWING: VPS30-018 (ALT)

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

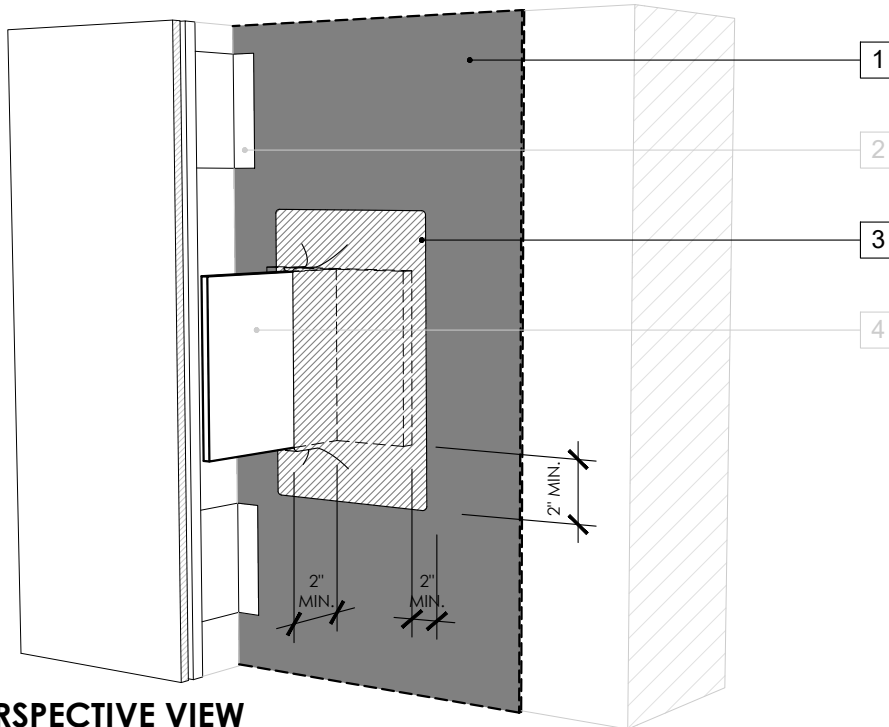
SUPERCEDES: NEW

SECTION VIEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT - CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE
3. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT, FLASHING AND CANT SEAL**
4. KNIFE PLATE PENETRATION
5. POLYURETHANE SEALANT OR NON-SHRINK GROUT PER BACKUP WALL TYPE
6. **JOINT TREATMENT PER DETAIL VPS30-009**



PERSPECTIVE VIEW

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



KNIFEPLATE PENETRATION DETAIL - NON-MASONRY CLADDING

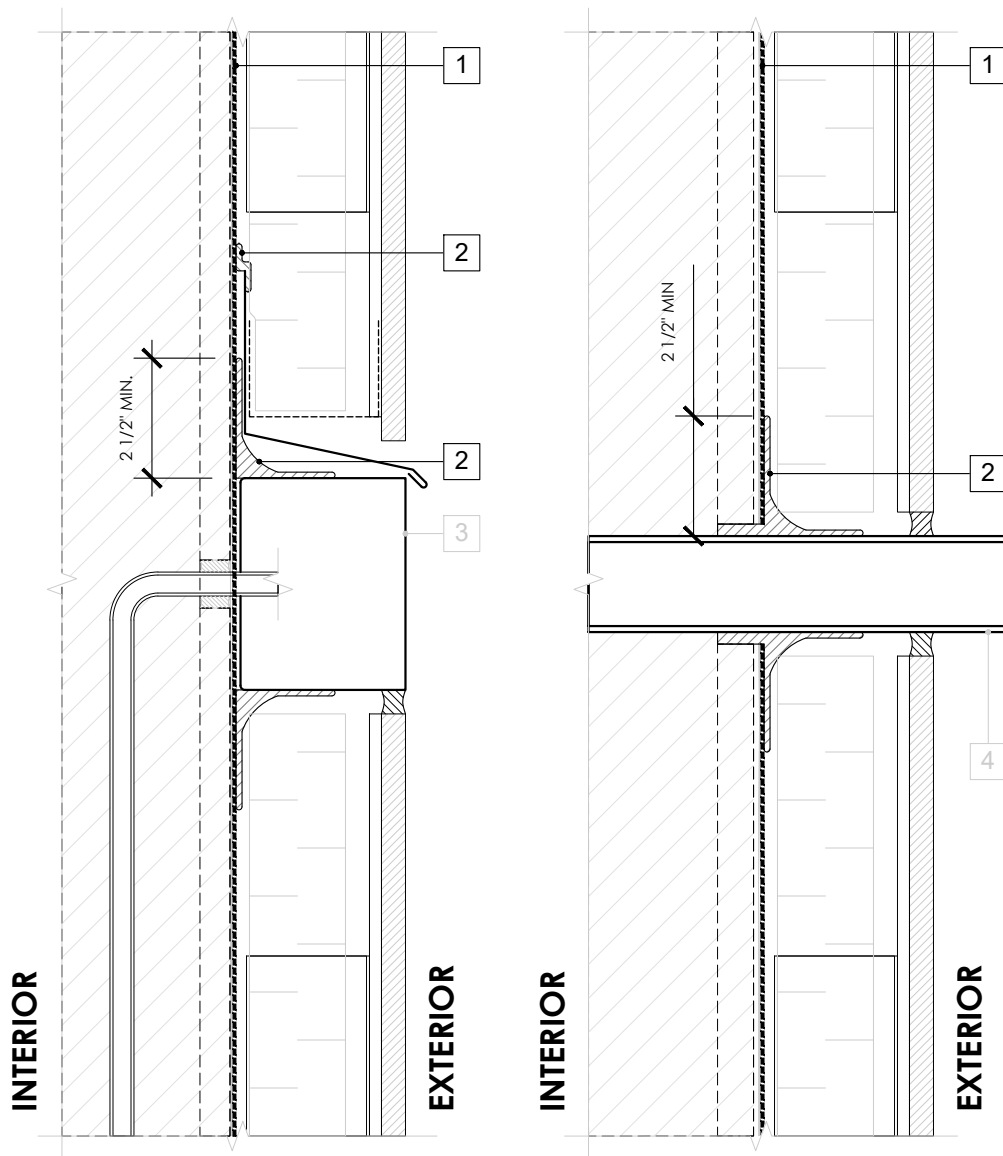
PERM-A-BARRIER® VPS 30

DRAWING: VPS30-019

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW



LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT**
3. AIR AND WATER TIGHT BOX AND PENETRATION
4. AIR AND WATER TIGHT PIPE OR DUCT PENETRATION

GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



PENETRATION DETAILS - NON-MASONRY CLADDING

PERM-A-BARRIER® VPS 30

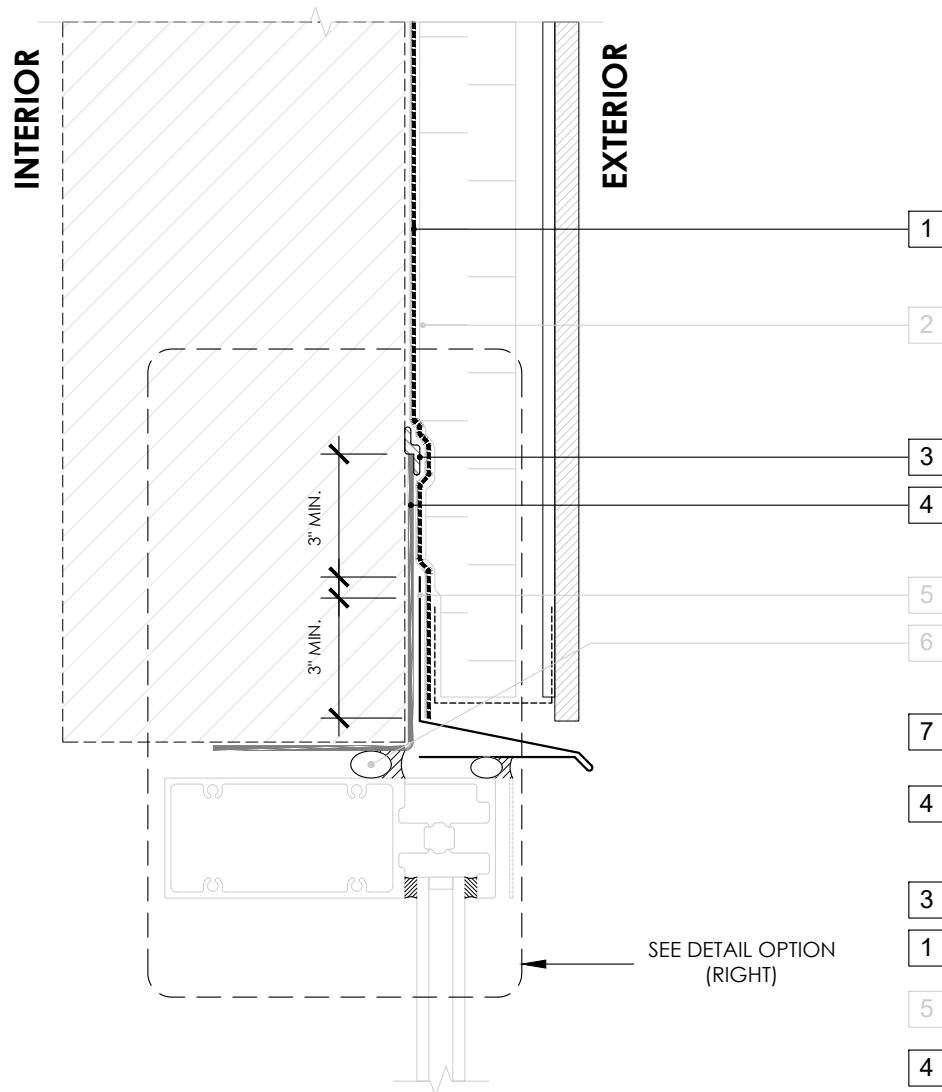
DRAWING: VPS30-020

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

OPTION 1

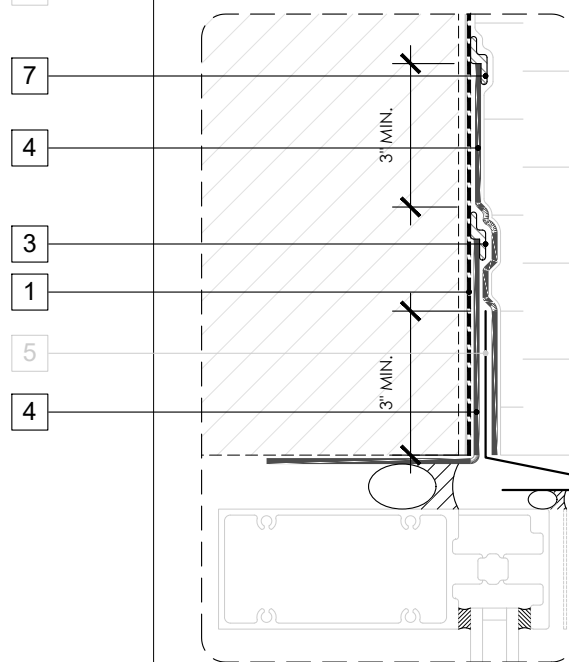


SEE DETAIL OPTION (RIGHT)

LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. CLADDING ATTACHMENT - CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE
3. **BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH TROWELED BEAD**
4. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
5. SHEET METAL FLASHING PER ARCH
6. INTERIOR AIR SEALANT OVER BACKER ROD
7. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT**

OPTION 2



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



CURTAINWALL HEAD DETAIL

PERM-A-BARRIER® VPS 30

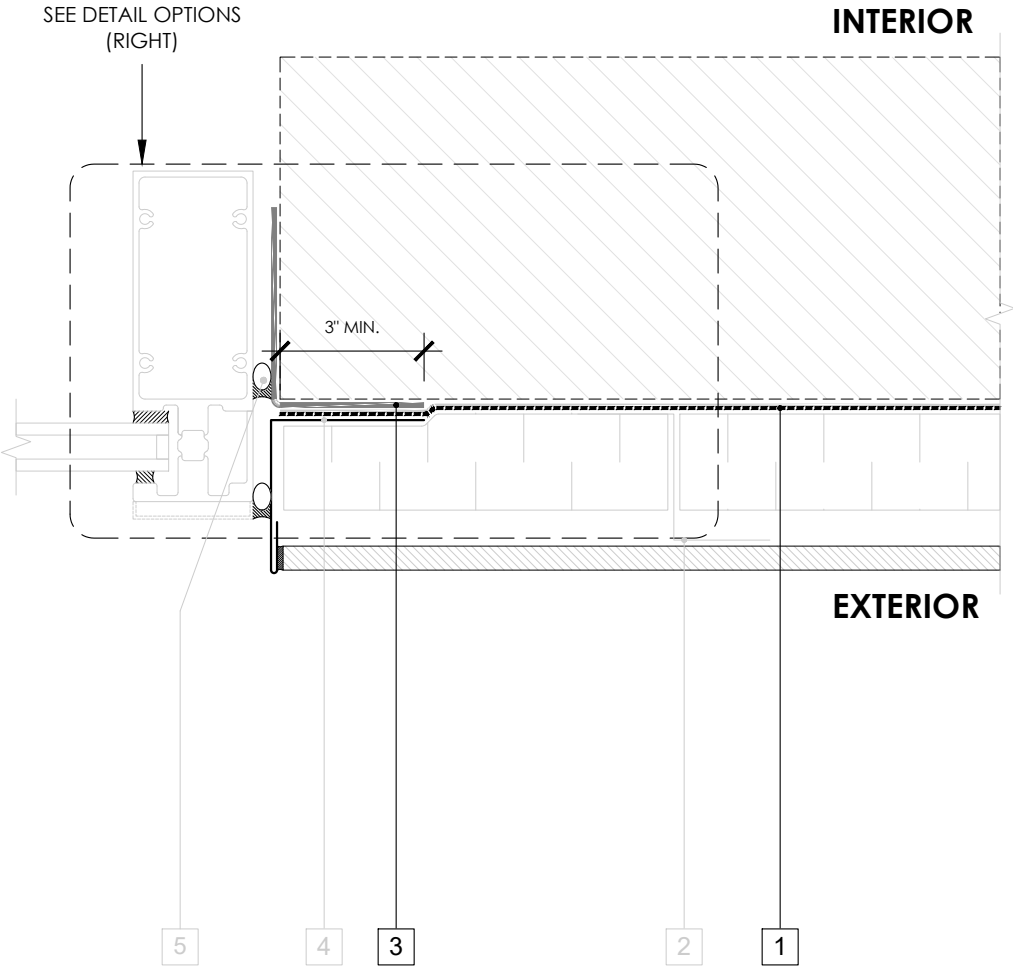
DRAWING: VPS30-021

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW

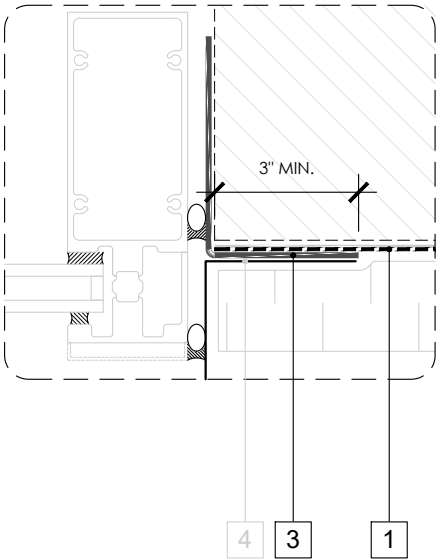
OPTION 1



LEGEND

- 1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
- 2. CLADDING ATTACHMENT -
CONFIRM DETAILING REQUIREMENTS
WITH THE GCPAT REPRESENTATIVE
- 3. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
- 4. SHEET METAL FLASHING PER ARCH
- 5. INTERIOR AIR SEALANT OVER
BACKER ROD

OPTION 2



GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.

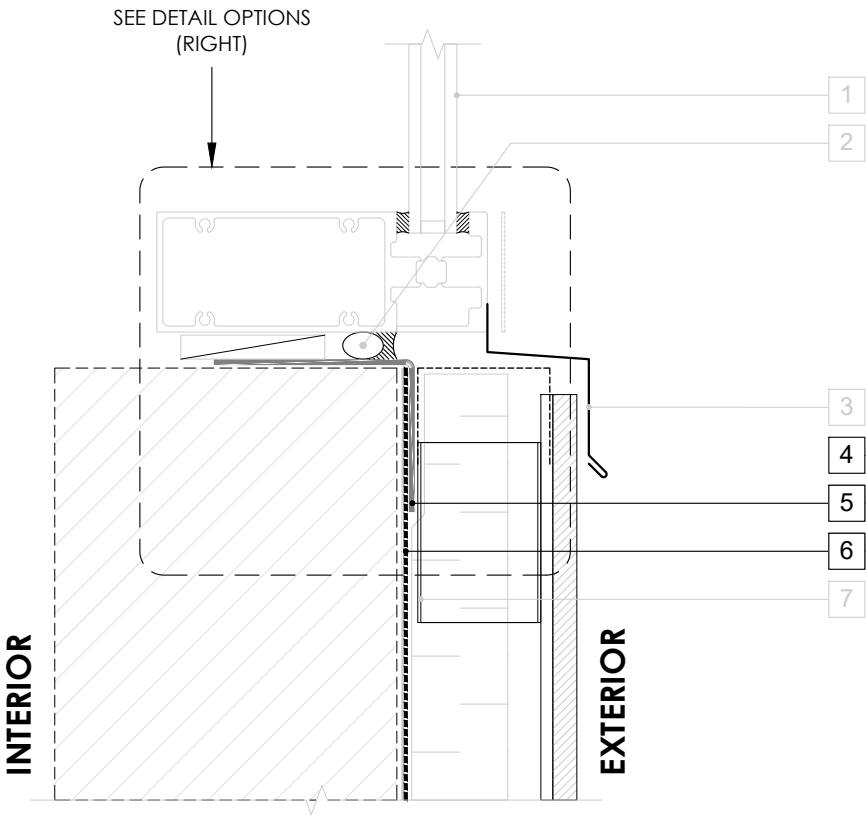


CURTAINWALL JAMB DETAIL

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-022
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

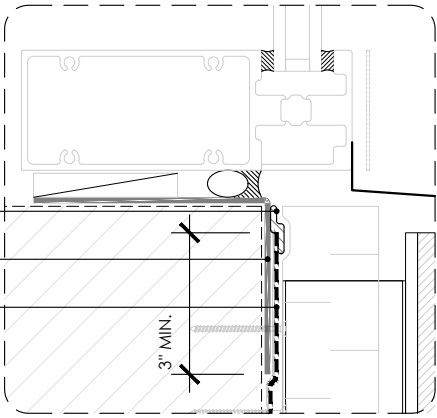
OPTION 1



LEGEND

- 1. CURTAINWALL SILL OVER MANUFACTURER'S STARTER TRACK
- 2. INTERIOR AIR SEALANT OVER BACKER ROD
- 3. SHEET METAL FLASHING SANDWICHED BETWEEN INTERMITTENT SHIMS
- 4. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH TROWELED BEAD**
- 5. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
- 6. **PERM-A-BARRIER® VPS 30 MEMBRANE**
- 7. CLADDING ATTACHMENT - CONFIRM DETAILING REQUIREMENTS WITH THE GCPAT REPRESENTATIVE

OPTION 2



GENERAL NOTES

- 1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
- 2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
- 3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in GRAY FONT. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.

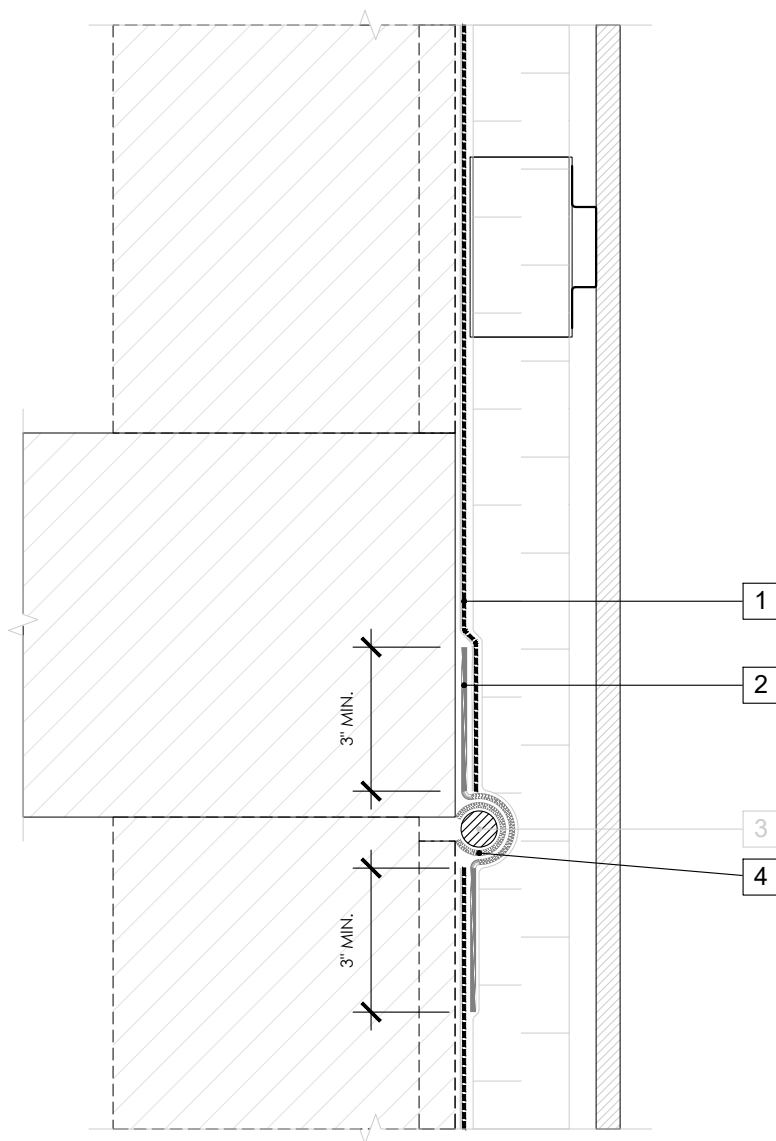


CURTAINWALL SILL DETAIL

PERM-A-BARRIER® VPS 30

DRAWING:	VPS30-023
SCALE:	3" = 1'
EFFECTIVE DATE:	2020.05.21
SUPERCEDES:	NEW

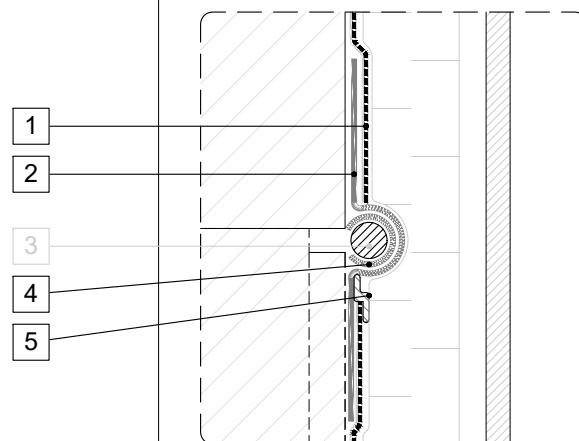
OPTION 1



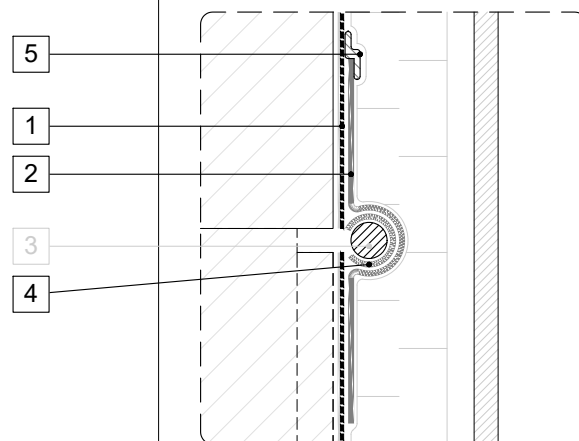
LEGEND

1. **PERM-A-BARRIER® VPS 30 MEMBRANE**
2. **PERM-A-BARRIER® SELF-ADHERED FLASHING***
3. **MINIMUM 3/4" BACKER ROD**
4. **PERM-A-BARRIER DETAIL MEMBRANE INVERTED STRIP SUFFICIENT IN SIZE TO COVER BACKER ROD**
5. **PERM-A-BARRIER® S100, BITUTHENE MASTIC, BITUTHENE LIQUID MEMBRANE, OR GCP APPROVED SEALANT - 1-INCH TROWELED BEAD**

OPTION 2



OPTION 3



GENERAL NOTES

1. Detail not suitable for all climates. Avoiding excessive moisture accumulation in exterior walls is dependent on many factors including proper placement of insulation and water, air, and vapor control layers in the wall. Confirm membranes are suitable for project specific service temperatures. For assistance with exterior wall design, consult with a building science professional.
2. Install all GCP products in accordance with GCP Product Data Sheets and GCP recommendations.
3. GCP products are indicated in the detail legend in **BOLDFACE** font. Detail components by others are indicated in **GRAY FONT**. Install components per manufacturer and project specific requirements.

Refer to air barrier system product data sheet for acceptable SELF-ADHERED FLASHING products.



DEFLECTION JOINT

PERM-A-BARRIER® VPS 30

DRAWING: VPS30-024

SCALE: 3" = 1'

EFFECTIVE DATE: 2020.05.21

SUPERCEDES: NEW