BLUESKIN® VP160
INSTALLATION GUIDELINES

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Supersedes all previous versions
Table of Contents

1. **Introduction** .................................................................................................................. 3
   1.01 Air Barrier Considerations ......................................................................................... 3
   1.02 Building Code Standards ........................................................................................... 3

2. **Blueskin® VP160 Air Barrier Assembly** ...................................................................... 5
   2.01 Warranties .................................................................................................................. 5
   2.02 Blueskin® VP160 Assembly Products ......................................................................... 5

3. **Installation Considerations** ............................................................................................ 6
   3.01 Safety .......................................................................................................................... 6
   3.02 Delivery, Storage and Handling .................................................................................. 6
   3.03 Site Conditions ............................................................................................................ 6
   3.04 Substrate Conditions and Preparation ....................................................................... 6
   3.05 Temperature and Exposure Limitations ....................................................................... 7
   3.06 Primer ........................................................................................................................ 8

4. **Installation** ....................................................................................................................... 9
   4.01 Planning Material Installation ..................................................................................... 10
   4.02 Self-Adhered Flashing Installation Procedures .......................................................... 10
   4.03 Liquid Applied Flashing Installation Procedures ......................................................... 11
   4.04 Blueskin® VP160 Installation Procedures .................................................................. 11

5. **Adjacent Material Attachment and Fastener Penetrations** .......................................... 12
   5.01 Rigid Insulation .......................................................................................................... 12
   5.02 Fastener Penetrations Through Blueskin® VP160 ....................................................... 12

6. **Details** ............................................................................................................................. 13
   6.01 Wall Foundation .......................................................................................................... 14
   6.02 Pipe Penetrations ........................................................................................................ 16
   6.03 Inside and Outside Corners ........................................................................................ 19
   6.04 Column Transition ...................................................................................................... 20
   6.05 Thru-Wall Flashing ..................................................................................................... 21
   6.06 Rough Openings ......................................................................................................... 22
   6.07 Reverse Laps ............................................................................................................... 28
   6.08 Construction Joints ...................................................................................................... 31
   6.09 Parapet ......................................................................................................................... 34
1. Introduction
This installation guideline includes materials and installation procedures for Blueskin® VP160 Self-Adhered Water Resistive Air Barrier. Blueskin® VP160 meets the NBC and IECC air barrier requirements for a Water Resistive Barrier (WRB) as referenced in ICC ESR-2975, and provides an air and water barrier in exterior wall construction to allow for the outward passage of water vapour, avoiding the risk of condensation build-up in exterior wall assemblies.

1.01 Air Barrier Considerations
Blueskin® VP160 provides protection within the exterior wall assembly against the intrusion of water, uncontrolled air leakage, and allows the exterior wall assembly to dry.

- Penetrations, substrate transitions, and connections around window and door flashings are an essential and critical element to manage water, air, vapour, and drainage to the exterior. The Blueskin® VP160 assembly shall be completed to seal air leakage pathways and gaps. Typical air leakage pathways include, but are not limited to, the following:
  - Connections of the wall to roof
  - Connections of the wall to foundation
  - Seismic and expansion joints
  - Window and door rough openings
  - Pipe penetrations
  - Fastener and bolt penetrations

1.02 Building Code Standards:
This installation guideline is based upon the following industry standards, recognized by window manufacturers, installers, code officials, envelope consultants, and design professionals:

- American Architectural Manufacturers Association (AAMA):
  - AAMA 711-13 - Voluntary Specification for Self Adhering Flashing Used for Installation of Exterior Wall Fenestration Products
  - AAMA 2400-02 - Standard Practice for Installation of Windows with a Mounting Flange in Stud Frame Construction

- American Society for Testing Materials (ASTM):
  - ASTM E96 - Standard Test Methods for Water Vapour Transmission of Materials
  - ASTM E283 - Standard Test Method for Determining the Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen
  - ASTM E331 - Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Uniform Static Air Pressure Difference
The information in this installation guideline should be adapted to suit the requirements of individual projects. It is recommended to consult with design professionals to determine compliance with applicable codes and regulations.

Refer to the Henry® Tech Talk Bulletin “NFPA 285 Assemblies” for a list of Henry® NFPA 285 compliant wall assemblies.
2. **Blueskin® VP160 Air Barrier Assembly**

Henry® defines an assembly as the installation of a primary WRB membrane, such as Blueskin® VP160, and authorized auxiliary components. For this reason, Blueskin® VP160 is designed to be installed in conjunction with Henry® authorized auxiliary products to create a complete WRB assembly that manages long term protection of commercial buildings including uncontrolled air leakage, water penetration, and energy loss.

2.01 **Warranties**

<table>
<thead>
<tr>
<th>Warranty Options</th>
<th>Warranty Duration</th>
<th>Warranty Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Warranty</td>
<td>One (1) Year</td>
<td>Products Warranted Individually</td>
</tr>
<tr>
<td>Assembly Warranty</td>
<td>Twelve (12) Years</td>
<td>Blueskin® VP160 and Authorized Auxiliary Products Warranted Collectively</td>
</tr>
</tbody>
</table>

2.02 **Blueskin® VP160 Assembly Products**

<table>
<thead>
<tr>
<th>Assembly Product Type</th>
<th>Product Name</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Product</td>
<td>Blueskin® VP160 Self-Adhered Water Resistant Barrier</td>
<td>Water Resistant Barrier (WRB)</td>
</tr>
<tr>
<td>Auxiliary Materials</td>
<td>Blueskin® SA Self-Adhered Water Resistant Barrier</td>
<td>Self-Adhered Flashing</td>
</tr>
<tr>
<td></td>
<td>Blueskin® SALT Self-Adhered Water Resistant Barrier</td>
<td>Low-Temperature Self-Adhered Flashing</td>
</tr>
<tr>
<td></td>
<td>Blueskin® Butyl Flash</td>
<td>Self-Adhered Flashing</td>
</tr>
<tr>
<td></td>
<td>Blueskin® VP160 Self-Adhered Water Resistant Barrier</td>
<td>Self-Adhered Flashing</td>
</tr>
<tr>
<td></td>
<td>Foilskin® Self-Adhered Water Resistant Barrier</td>
<td>Self-Adhered Flashing</td>
</tr>
<tr>
<td></td>
<td>Air-Bloc® LF Liquid-Applied Flashing</td>
<td>Liquid-Applied Flashing</td>
</tr>
<tr>
<td></td>
<td>Kop-R-Lastic® Sealant</td>
<td>Termination Sealant</td>
</tr>
<tr>
<td></td>
<td>925 BES Sealant</td>
<td>Building Envelope Sealant</td>
</tr>
<tr>
<td></td>
<td>Aquatac™ Primer</td>
<td>Water Based Primer</td>
</tr>
<tr>
<td></td>
<td>Hi-Tac™ Primer</td>
<td>Rubber Based Primer</td>
</tr>
<tr>
<td></td>
<td>Blueskin® LVC Adhesive</td>
<td>Low VOC Solvent-Based Adhesive</td>
</tr>
<tr>
<td></td>
<td>Blueskin® Spray Prep Adhesive</td>
<td>Aerosol Primer</td>
</tr>
<tr>
<td></td>
<td>Blueskin® LVC Spray Primer</td>
<td>Low VOC Solvent-Based Primer</td>
</tr>
<tr>
<td></td>
<td>Blueskin® TWF Self-Adhered Thru-Wall Flashing</td>
<td>Thru-Wall Flashing</td>
</tr>
</tbody>
</table>

5
3. Installation Considerations

Consider your installation prior to application: sequencing of materials may be dependent on job progress, product, or crew availability. Only products offered through Henry® and installed as referenced in this installation guideline qualify for warranty.

3.01 Safety

First and foremost, job site safety is of prime consideration. Coordinate in advance with jobsite supervision and follow all site-specific and CCOHS safety requirements and recommendations. Be aware of surroundings at all times. If in doubt, stop all work, remove yourself from immediate danger, and speak with your jobsite supervisor or safety official before proceeding.

3.02 Delivery, Storage and Handling

For product specific product delivery, storage, and handling instructions refer to relevant product Technical Data Sheets (TDS) and Safety Data Sheets (SDS) available at www.henry.com.

- Materials should be delivered to the jobsite undamaged and in original packaging indicating the manufacturer and product name.
- Store materials in original packaging, in accordance with relevant product TDS, and conform to applicable safety regulatory agencies.
- Keep solvent-based products, such as adhesives and primers, away from open flame or excessive heat.
- Provide adequate ventilation for protection from hazardous fumes.

3.03 Site Conditions

**Environmental Requirements**

For product specific characteristics, limitations, and suitable weather conditions refer to relevant product TDS and material Safety Data Sheets (SDS) available at www.henry.com.

- Do not install during rain or inclement weather. Do not install materials over frost covered or wet surfaces.
- If applicable, installer should verify compliance with all federal, provincial, and local regulations controlling use of volatile organic compounds (VOCs) on the jobsite.

3.04 Substrate Conditions and Preparation

**Substrate Conditions**

Appropriate substrate conditions are critical to obtain proper adhesion; be sure surfaces are ready for product installation and are in accordance with this installation guideline.

- Do not install until substrate conditions are in accordance with this installation guideline.
- Substrate must be continuous and secure.
• Mechanical fasteners used to secure substrate shall be set flush with substrate and secured into solid backing.
• Concrete and CMU substrates:
  o Fill voids, gaps, and spalled areas in substrate to provide an even plane.
  o Strike masonry joints full-flush.
  o Curing compounds or release agents used in concrete construction must be resin based without oil, wax, or pigments.
  o New concrete should be cured for a minimum of fourteen (14) days and must be dry prior to primer application. Refer to primer section of this installation guideline for application requirements.
• Not all product installations require the use of primer. However, primer may be used in some cases to enhance adhesion. Refer to primer section of this installation guideline for further information.
• Adjacent or multiple pipe penetrations through sheathing should be sufficiently spaced apart, typically 101-152 mm, to allow proper detailing of individual pipes.

### Preparation
Appropriate substrate preparation is critical to obtain proper adhesion so be sure surfaces are ready to accept the product and are in accordance with this installation guideline.

• Ensure all required preparatory work is complete prior to applying Blueskin® VP160 assembly products.
• For optimal adhesion, surfaces must be sound, dry to touch, clean, and free of oil, grease, dirt, excess mortar, frost, laitance, loose and flaking particles, and other contaminants.
• Repair or replace products that are not installed to create a continuous and secure substrate.
• Protect adjacent surfaces to prevent spillage and overspray.
• Cap and protect exposed back-up walls against wet weather conditions during and after application of Blueskin® VP160.

### 3.05 Temperature and Exposure Limitations
Optimal temperatures for application of the Blueskin® VP160 assembly include ambient and substrate temperatures of four (4) °C and rising. Refer to application temperature chart below for further clarification.

• Best practices suggest storing rolled material above ten (10) °C prior to cold weather installation to enhance adhesion and ease installation. Refer to relevant product TDS for product specific temperature and exposure limitations.
• Good practice calls for covering the Blueskin® VP160 assembly as soon as possible; not to exceed 150 days. Areas of extreme regional weather conditions, daytime sunlight, or temperatures may require protection prior to the 150 day exposure limit.
• Actual temperature limitations may vary by product. Refer to relevant product TDS for product specific information.
• Not all Henry® products are designed for permanent exposure. Refer to relevant product TDS for product specific limitations.
Application Temperatures

<table>
<thead>
<tr>
<th>Assembly Product Type</th>
<th>Product Name</th>
<th>Minimum Application Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primary Product</td>
<td>Blueskin® VP160</td>
<td>-7 °C (20 °F)*</td>
</tr>
<tr>
<td>Auxiliary Materials</td>
<td>Blueskin® SA</td>
<td>5 °C (41 °F)*</td>
</tr>
<tr>
<td></td>
<td>Blueskin® SALT</td>
<td>-12 °C (10 °F)*</td>
</tr>
<tr>
<td></td>
<td>Blueskin® Butyl Flash</td>
<td>-4 °C (25 °F)*</td>
</tr>
<tr>
<td></td>
<td>Foilskin®</td>
<td>-7 °C (20 °F)*</td>
</tr>
<tr>
<td></td>
<td>Air-Bloc® LF</td>
<td>-7 °C (20 °F)**</td>
</tr>
</tbody>
</table>

*Primer should be used in cold weather applications or when enhanced adhesion is needed.

**Air-Bloc® LF primer recommendations are only applicable at raw edges of exposed compressed gypsum.

3.06 Primer

In some cases the ability to adhere to the substrate may be compromised by irregular surface texture, chemical release agents, moisture content, dirt and debris, or even low temperatures or high wind conditions. For this reason, Henry® offers primers where enhanced adhesion is needed. The following charts indicate available primers per product and substrate requirements.

- Refer to individual product TDS for recommended primer installation rates and cure times prior to installation. Allow primer to properly cure prior to covering. Premature membrane installation may result in failed enhancement of adhesion to the substrate.
- Avoid over-application of primer. Excessive primer may result in additional drying time.
- Primed surfaces must be covered during the same working day. Primed surfaces not covered during the same working day must be re-primed.
4. Installation

Blueskin® VP160 is a commercial self-adhered vapour permeable, water resistive air barrier consisting of an engineered film surface and a patented, permeable adhesive technology with split-back poly-release film. Blueskin® VP160 is fully adhered to the wall substrate in a “shingle” fashion without the need for mechanical attachment.
4.01 Planning Material Installation
Prior to installation of the Blueskin® VP160 assembly, understand installation recommendations to ensure assembly integrity, minimize waste, and achieve proper sequencing.

- Rolled materials, including Blueskin® VP160 and self-adhered flashings, can be pre-cut to more manageable lengths from the main roll for easier handling and installation. This is especially helpful when working solo. It’s a good idea to label these to keep materials organized.
- Install multiple courses in shingle fashion at overlaps to properly shed water and avoid reverse laps.
- Refer to the details section of this installation guideline for recommended flashing and sealant applications. Products and installation requirements may vary.
- Kop-R-Lastic® Sealant must fully cure prior to subsequent installations.
- Wall assemblies containing a vapour retarder on the interior wall assembly:
  - Extend flashing into rough opening to ensure sufficient membrane for connection with vapour retarder and provide a continuous WRB.

4.02 Self-Adhered Flashing Installation Procedures

Primer
- Where required, install primer continuously to ensure complete substrate coverage of anticipated flashing installation area. Refer to primer section of this installation guideline for further information.
- Allow primer to cure to a tacky film prior to application of flashing.
- Refer to relevant product TDS for estimated cure times.

Preparation
- Measure and cut flashing to ensure adequate length to achieve continuous coverage of desired installation.
- Avoid scoring material while rolled up so as to not inadvertently damage underlying material.

Installation
- Peel protective film from leading edge of flashing and align top of membrane verifying proper positioning prior to complete film removal and flashing placement.
- Press flashing firmly into place by applying hand pressure to the middle of the membrane and working the pressure towards the edges eliminating wrinkles and air bubbles.
- Install flashings in shingle fashion to eliminate reverse laps.
- Where enhanced adhesion is needed, prime laps ensuring complete coverage of anticipated lap installation. Refer to relevant primer TDS for recommended application rates.
- Lap adjoining edges a minimum of fifty (50) mm.
- Roll flashing and laps with countertop roller to obtain thorough adhesion.
- Where flashing is installed prior to Blueskin® VP160, seal end of day exposed reverse laps of Blueskin® Butyl Flash, Blueskin® SA, or Foilskin® with 925 BES Sealant.
- Avoid stretching and overextending material at corners or inside angles.
4.03 Liquid-Applied Flashing Installation Procedures

Primer
- Apply a uniform film of Blueskin® Spray Prep to raw edges of gypsum sheathing to completely encapsulate cut edge of gypsum sheathing. Refer to primer section of this installation guideline for further information.
- Allow Blueskin® Spray Prep to cure to a tacky film prior to application of liquid-applied flashing.

Installation
- Apply flashing in a serpentine pattern. Minimum width of flashing application may vary. Refer to relevant detail in this installation guideline for further information.
- Spread flashing to achieve a monolithic membrane over substrate requiring flashing. Refer to Air-Bloc® LF TDS for installation rates and recommended thickness.
- Allow Air-Bloc® LF to cure prior to subsequent installations.

4.04 Blueskin® VP160 Installation Procedures

Primer
- When enhanced adhesion of Blueskin® VP160 to the substrate is desired, install primer continuously to ensure complete substrate coverage of anticipated WRB installation area. Refer to primer section of this installation guideline for further information.
- Allow primer to cure to a tacky film prior to application of WRB.

Preparation
- Measure and cut Blueskin® VP160 to ensure adequate length to achieve continuous coverage of desired installation.
- Avoid scoring material while rolled up so as to not inadvertently damage underlying material.

Installation
- Peel protective film from leading edge of Blueskin® VP160 and align top of membrane, verifying proper positioning prior to complete film removal and flashing placement.
- Press Blueskin® VP160 firmly into place by applying hand pressure to the middle of the membrane and working the pressure towards the edges eliminating wrinkles and air bubbles.
- Install Blueskin® VP160 in shingle fashion to eliminate reverse laps.
- Where enhanced adhesion is needed, prime laps ensuring complete coverage of anticipated lap installation. Refer to relevant primer TDS for recommended application rates.
- Lap adjoining horizontal edges a minimum of fifty (50) mm and vertical edges a minimum of seventy-six (76) mm.
- Roll Blueskin® VP160 and laps with countertop roller to obtain thorough adhesion.
- Seal permanently exposed reverse laps of Blueskin® VP160 with Kop-R-Lastic® Sealant.
5. **Adjacent Material Attachment and Fastener Penetrations**

It is the responsibility of the installing contractor to properly install and accept fastener installation and associated components that interface with the WRB assembly to maintain continuity. Install fasteners and components to produce a seal around the point of penetration by creating a continuous compression thereby maintaining continuity in the WRB.

- Fasteners and components unable to create a seal as described in this installation guideline require supplemental sealant to fully encapsulate the hole created at the point of WRB penetration.

**Fastener Penetration Supplemental Sealant Table: Recommended Sealant per Product**

<table>
<thead>
<tr>
<th>Sealant</th>
<th>Blueskin® VP160</th>
<th>Blueskin® Butyl Flash</th>
<th>Blueskin® TWF</th>
<th>Blueskin® SA</th>
<th>Blueskin® SALT</th>
<th>Foilskin®</th>
<th>Air-Bloc® LF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kop-R-Lastic® Sealant</td>
<td>●</td>
<td>●</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>925 BES Sealant</td>
<td>-</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**KEY**

- Sealant not applicable
- May cause discoloration
- Authorized sealant use

5.01 **Rigid Insulation**

Installation of continuous insulation may be installed over Henry® WRB assemblies.

5.02 **Fastener Penetrations Through Blueskin® VP160**

**Self-Tapping Fasteners**

- Fastener head must be larger in diameter than the shank.
- Install fasteners perpendicular to the substrate until flush with the WRB.
- Install fasteners to provide a continuous compression firmly against the WRB, creating a gasketing seal without damaging the membrane.
- Do not install fasteners over unsupported areas of the substrate such as sheathing joints.
- Overdriven fasteners, improperly installed fasteners, defective/broken fasteners, or fasteners not properly fastened into the building structure should be removed and the vacated hole sealed with Kop-R-Lastic® Sealant prior to the installation of the cladding or veneer system.

**Pre-Drilled Fastening Assemblies**

- Fastening head or assembly component must be larger in diameter than predrilled hole.
- Fastening head or assembly component must be mounted flush with the WRB.
- Fastening head or assembly component must provide a continuous compression firmly against WRB creating a gasketing seal without damaging the membrane.
• Do not install fastening components over unsupported areas of the substrate such as sheathing joints.
• Seal improperly drilled and/or vacated holes with Kop-R-Lastic® Sealant prior to the installation of the cladding or veneer system.
• Penetrations that do not meet installation requirements require the addition of Kop-R-Lastic® Sealant at point of insertion through the air barrier to maintain continuity in the air barrier assembly.

6. Details
Drawings within this installation guideline indicate typical conditions for installing the Blueskin® VP160 assembly, and are provided for reference only. Prior to installation, verify unique requirements of local codes, laws, statutes or regulations that may be applicable for a specific installation. Henry® assumes no liability for the accuracy, completeness, or appropriateness of the drawings included in this installation guideline for a specific installation or purpose. Confirm project specific conditions with a local licensed design professional in order to assure compliance with all legal requirements. Henry® is not licensed to provide professional engineering or architectural services.

• Details show Blueskin® VP160 assembly installed over exterior grade gypsum sheathing. Other acceptable substrates include plywood, OSB, concrete, and concrete block.
6.01 Wall Foundation

Exterior Wall and Foundation Transition: Slab Below Grade

ALTERNATIVE LAP METHOD

BLUESKIN® VP160

50 mm OVERLAP WHERE BLUESKIN® VP160 LAPS ONTO BLUESKIN® TWF

EXTERIOR SHEATHING

BLUESKIN® TWF

CONTACT HENRY® FOR RECOMMENDATIONS WHERE THE AIR BARRIER TRANSITIONS ONTO THE WATERPROOFING ASSEMBLY.

BLUESKIN® TWF

50 mm MIN OVERLAP WHERE BLUESKIN® TWF LAPS ONTO BLUESKIN® VP160

KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

VAPOUR RETARDER (AS REQUIRED BY LOCAL BUILDING CODE)

CONTINUOUS INSULATION COVERED WITH VAPOUR RETARDER (AS REQUIRED BY LOCAL BUILDING CODE)
Exterior Wall and Foundation Transition: Slab on Grade

1. **BLUESKIN® VP160**
2. **KOP-R-LASTIC® SEALANT**
   (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)
3. **BLUESKIN® TWF**
4. **50 mm MIN OVERLAP WHERE**
   **BLUESKIN® TWF LAPS ONTO**
   **BLUESKIN® VP160**

**ALTERNATIVE LAP METHOD**

1. **EXTERIOR SHEATHING**
2. **BLUESKIN® VP160**
3. **50 mm OVERLAP WHERE**
   **BLUESKIN® VP160 LAPS ONTO**
   **BLUESKIN® TWF**
4. **BLUESKIN® TWF**
   CONTACT HENRY® FOR RECOMMENDATIONS WHERE THE AIR BARRIER TRANSITIONS INTO THE WATERPROOFING ASSEMBLY.

**VAPOUR RETARDER**
(AS REQUIRED BY LOCAL BUILDING CODE)

**CONCRETE SLAB ON GRADE**
6.02 Pipe Penetrations

Method A: Substrate Gaps up to 12 mm Wide Gap
Acceptable Henry® flashing:
- Kop-R-Lastic® Sealant
Method B: Substrate Gaps up to 12 mm Wide Gap

Acceptable Henry® flashing:

- Air-Bloc® LF

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**BLUESKIN® VP160**

**KOP-R-LASTIC® SEALANT**
(TROWEL SEALANT FIRMLY ONTO WATER RESISTIVE AIR BARRIER UNTIL FULLY COATED TO PROMOTE WATER SHEDDING)

25 mm MIN OVERLAP AT SEALANT SEAM

**AIR-BLOC® LF**

**SECURED PIPE**

25 mm MIN

**KOP-R-LASTIC® SEALANT**
(TROWEL SEALANT FIRMLY ONTO WATER RESISTIVE AIR BARRIER UNTIL FULLY COATED TO PROMOTE WATER SHEDDING)

**BLUESKIN® VP160**
Method C: Substrate Gaps up to 19 mm Wide Gap

Acceptable Henry® flashing:
- Blueskin® Butyl Flash
- Blueskin® SA
- Blueskin® SALT
- Foilskin®

ALTERNATE LAP METHOD

BLUESKIN® VP160

50 mm MIN OVERLAP AT DISSIMILAR MATERIAL SEAM

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®
(INSTALL SELF-ADHERED MEMBRANES IN A TARGET PATTERN)

925 BES SEALANT

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®
(INSTALL SELF-ADHERED MEMBRANES IN A FINGER PATTERN)

KOP-R-LASTIC® SEALANT
(TROWEL SEALANT FIRMLY ONTO WATER RESISTIVE AIR BARRIER UNTIL FULLY COATED TO PROMOTE WATER SHEDDING)

50 mm MIN OVERLAP AT DISSIMILAR MATERIAL SEAM

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®
(INSTALL SELF-ADHERED MEMBRANES IN A TARGET PATTERN)

SECURED PIPE

50 mm MIN

925 BES SEALANT

KOP-R-LASTIC® SEALANT
(TROWEL SEALANT FIRMLY ONTO WATER RESISTIVE AIR BARRIER UNTIL FULLY COATED TO PROMOTE WATER SHEDDING)

BLUESKIN® VP160
6.03 Inside And Outside Corners
6.04 Column Transition

ALTERNATE LAP METHOD

CONCRETE COLUMN

VAPOUR RETARDER
(AS REQUIRED BY LOCAL BUILDING CODE)

LAP FLASHING ONTO
SUBSTRATE 76 mm MIN EACH SIDE OF DISSIMILAR SUBSTRATE TRANSITIONS

50 mm MIN OVERLAP AT DISSIMILAR MATERIAL SEAMS

BLUESKIN® VP160

50 mm MIN OVERLAP AT DISSIMILAR MATERIAL SEAMS

BLUESKIN® BUTYL FLASH,
BLUESKIN® SA, BLUESKIN® SALT,
OR FOILSKIN®

BLUESKIN® VP160

BLUESKIN® VP160,
BLUESKIN® BUTYL FLASH,
BLUESKIN® SA, BLUESKIN® SALT,
OR FOILSKIN®
6.05 Thru-Wall Flashing

**Alternate Lap Method**

- **BLUESKIN® VP160**
- **EXTerior SHEATHING**
- **KOP-R-LASTIC® SEALANT** (Trowel sealant until membrane edge is fully coated to promote water shedding)
- **50 mm MIN OVERLAP AT DISSIMILAR MATERIAL SEAMS**
- **BLUESKIN® TWF**

**Details**:
- **VAPOUR RETARDER** (as required by local building code)
- **50 mm MIN OVERLAP AT DISSIMILAR MATERIAL SEAMS**
- **BLUESKIN® VP160, BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, FOILSKIN®, OR AIR-BLOC® LF**
6.06 Rough Openings

Henry® recommended installation practices for detailing window and door rough openings are based on industry standards including, but not limited to the following:

- ASTM E2112 Standard Practice for Installation of Exterior Windows, Doors and Skylights
- CAN/ULC-S742-11, Standard For Air Barrier Assemblies – Specification
- Refer to local building code and Window and Door Manufacturer installation requirements

Rebate Window Installation

**STEP 1**

APPLY A BEAD OF 925 BES SEALANT AT ROUGH OPENING CORNER INTERFACE

**STEP 2**

INSTALL BLUESKIN® VP160
50 mm MINIMUM FROM ROUGH OPENING

BLUESKIN® VP160
STEP 5

152 mm MIN

BLUESKIN® VP160

BLUESKIN® SA,
BLUESKIN® SALT,
BLUESKIN® BUTYL FLASH,
FOILSKIN®, OR
AIR-BLOC® LF

STEP 6

SEAL REVERSE LAP EDGES OF ROUGH OPENING FLASHINGS WITH KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE IS FIRMLY COATED TO PROMOTE WATER SHEDDING)

STEP 7

INSTALL REBATE WINDOW PER WINDOW MANUFACTURER REQUIREMENTS
Flanged Window Installation

**STEP 1**

**STEP 2**

APPLY A BEAD OF 925 BES SEALANT AT ROUGH OPENING CORNER INTERFACE

INSTALL BLUESKIN® VP160
50 mm MINIMUM FROM ROUGH OPENING

BLUESKIN® VP160

**STEP 3**

**OPTION A**

101 mm MIN

152 mm MIN

BACK DAM WOOD FURRING STRIP

101 mm MIN

BLUESKIN® SA, BLUESKIN® SALT, BLUESKIN® BUTYL FLASH, FOILSKIN®, OR AIR-BLOC® LF

ROUGH OPENING SILL

BLUESKIN® VP160

**OPTION B**

101 mm MIN

152 mm MIN

WOOD SHIM
STEP 3 (CONTINUED)

BLUESKIN® VP160

BLUESKIN® SA,
BLUESKIN® SALT,
BLUESKIN® BUTYL
FLASH, FOILSKIN®, OR
AIR-BLOC® LF

INSTALL FLANGED
WINDOW PER
WINDOW
MANUFACTURER
REQUIREMENTS

STEP 4

STEP 5

101 mm
MIN

152 mm
MIN

152 mm
MIN

STEP 6

BLUESKIN® VP160

BLUESKIN® SA,
BLUESKIN® SALT,
BLUESKIN® BUTYL FLASH,
FOILSKIN®, OR
AIR-BLOC® LF

BLUESKIN® SA,
BLUESKIN® SALT,
BLUESKIN® BUTYL FLASH,
FOILSKIN®, OR
AIR-BLOC® LF
STEP 7

SEAL REVERSE LAP EDGES OF ROUGH OPENING FLASHINGS WITH KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE IS FIRMLY COATED TO PROMOTE WATER SHEDDING)
6.07 Reverse Laps
Method A: Blueskin® VP160 Lapping Onto Blueskin® VP160

BLUESKIN® VP160
EXTERIOR SHEATHING
KOP-R-LASTIC® SEALANT
(TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)
50 mm MIN OVERLAP AT HORIZONTAL SEAMS
BLUESKIN® VP160
Method B: Blueskin® Butyl Lapping Onto Blueskin® VP160

BLUESKIN® VP160

EXTERIOR SHEATHING

KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

50 mm MIN OVERLAP AT HORIZONTAL SEAMS

BLUESKIN® BUTYL FLASH
Method C: Blueskin® SA, Blueskin® SALT, Foilskin®, Or Blueskin® TWF Lapping Onto Blueskin® VP160

**BLUESKIN® VP160**

**EXTERIOR SHEATHING**

**KOP-R-LASTIC® SEALANT**
(TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

50 mm MIN OVERLAP AT HORIZONTAL SEAMS

INSTALL **BLUESKIN® LVC AQUATIC™ PRIMER, HI-TAC™ PRIMER, OR BLUESKIN® ADHESIVE CONTINUOUSLY TO ENSURE COMPLETE COVERAGE OF ANTICIPATED REVERSE LAP INSTALLATION AREA**

**BLUESKIN® SA, BLUESKIN® SALT, FOILSKIN®, OR BLUESKIN® TWF**
6.08 Construction Joints
Method A: Construction Joints up to 12 mm Wide Maximum

12 mm WIDE SUBSTRATE GAP MAXIMUM
EXTEND BLUESKIN® VP160
76 mm MIN BEYOND SUBSTRATE GAPS
SEAMS NEAR SUBSTRATE GAPS

12 mm WIDE SUBSTRATE GAP MAXIMUM
BLUESKIN® VP160
Method B: Construction Joints up to 19 mm Wide Maximum

**METHOD A**
GAPS UP TO 19 mm WIDE

BLUESKIN® VP160

BLUESKIN® VP160, BLUESKIN® SA,
BLUESKIN® SALT, BLUESKIN® BUTYL
FLASH, OR FOILSKIN®

LAP BLUESKIN® VP160 ONTO FLASHING
50 mm MIN AT HORIZONTAL SEAMS AND
76 mm MIN AT VERTICAL SEAMS

BLUESKIN® VP160

BLUESKIN® VP160, BLUESKIN® SA,
BLUESKIN® SALT, BLUESKIN® BUTYL
FLASH, OR FOILSKIN®

LAP FLASHING ONTO SUBSTRATE 76 mm
MIN EACH SIDE OF SUBSTRATE GAP

KOP-R-LASTIC® SEALANT
(TROWEL SEALANT UNTIL MEMBRANE
EDGE IS FULLY COATED TO PROMOTE
WATER SHEDDING)
Method C: Construction Joints up to 50 mm Wide Maximum

**METHOD A**
GAPS UP TO 50 mm WIDE

50 mm MAX

**METHOD B**
GAPS UP TO 50 mm WIDE

50 mm MAX

BLUESKIN® VP160

BLUESKIN® VP160, BLUESKIN® SA, BLUESKIN® SALT, BLUESKIN® BUTYL FLASH, OR FOILSKIN®

LAP FLASHER ONTO SUBSTRATE 76 mm MIN EACH SIDE OF SUBSTRATE GAP

LAP BLUESKIN® VP160 ONTO FLASHING 50 mm MIN AT HORIZONTAL SEAMS AND 76 mm MIN AT VERTICAL SEAMS

KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)
6.09 Parapet
Method A: Air Barrier Installed on Front and Back of Parapet Wall

HENRY® HIGH TEMPERATURE ROOFING UNDERLAYMENT UNDER METAL COPING

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

BLUESKIN® VP160

CONTACT HENRY® FOR RECOMMENDATIONS WHERE THE AIR BARRIER TRANSITIONS ONTO THE ROOFING ASSEMBLY.

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

OPTIONAL HENRY® AIR/VAPOUR BARRIER

KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

EXTEND FLASHING 76 mm MIN

BLUESKIN® VP160

BLUESKIN® VP160, BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

LAP FLASHING 76 mm MIN ONTO EACH SIDE OF SUBSTRATE AT DISSIMILAR MATERIAL TRANSITIONS

50 mm OVERLAP WHERE BLUESKIN® VP160 LAPS ONTO FLASHING

REFER TO HENRY® DETAIL BSVP160 - 8B OR BSVP160 - 8C SUBSTRATE GAPS FOR DEFLECTION JOINT RECOMMENDATIONS

BLUESKIN® VP160, BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

KOP-R-LASTIC® SEALANT (TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)
Method B: Roofing Assembly Wrapping Over Top of Parapet Wall

KOP-R-LASTIC® SEALANT
(TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

EXTEND FLASHING 76 mm MIN

BLUESKIN® VP160

BLUESKIN® VP160, BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

KOP-R-LASTIC® SEALANT
(TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)

LAP FLASHING 76 mm MIN ONTO EACH SIDE OF SUBSTRATE AT DISSIMILAR MATERIAL TRANSITIONS

50 mm OVERLAP WHERE BLUESKIN® VP160 LAPS ONTO FLASHING

REFER TO HENRY® DETAIL BSVP160 - 8B OR BSVP160 - 8C SUBSTRATE GAPS FOR DEFLECTION JOINT RECOMMENDATIONS

BLUESKIN® VP160, BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

CONTACT HENRY® FOR RECOMMENDATIONS WHERE THE ROOFING ASSEMBLY TRANSITIONS ONTO THE AIR BARRIER.

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

BLUESKIN® BUTYL FLASH, BLUESKIN® SA, BLUESKIN® SALT, OR FOILSKIN®

OPTIONAL HENRY® AIR/VAPOUR BARRIER

KOP-R-LASTIC® SEALANT
(TROWEL SEALANT UNTIL MEMBRANE EDGE IS FULLY COATED TO PROMOTE WATER SHEDDING)
For Additional Information Contact:
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