**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 occupants

**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

**Product Advantages**

- Fully bonded
- Waterproof and virtually impermeable to moisture
- Cross laminated film
- Cold applied
- Flexible
- Controlled thickness
- Aggressive, conformable adhesive
- Unique green color and logo
- Ripcord Split Release on Demand
- Foldless release paper

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PermABarrier Wall Flashing

Drawings are for illustration purposes only. Please refer to gcpat.com for specific application details.
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
- S100 Sealant—
  one part neutral curing, ultra low modulus silicone sealant for sealing penetrations, terminations, brick ties and final terminations.
- 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. Ripcord, a Split Release 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 S100 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 S100 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 ½ 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 S100 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.
**Through-wall Flashing Details**

**CONTINUOUS FLASHING**
At inside and outside corners, fold and lap seams. Seal top edge & corner lap seams with a bead of Bituthene Mastic or S100 Sealant

**INSTALLATION**

1. Install 1st 2 in. (51 mm) lap typical at splices
2. Install 2nd
3. Install 3rd

**Material**
- 2 in. (51 mm) lap typical at splices
- Bituthene Mastic
- S100 Sealant

**NOTES**
- No veneer shown for clarity

**Parapet Detail**

- Base of Wall Detail
- Cavity insulation
- 2 in. (51 mm) clear airspace
- Bituthene Mastic
- Perm-A-Barrier Wall Flashing
- Drainage fill usage and type optional
- Dry-Block in CMU & mortar
- Weeps at 16 in. (406 mm) O.C.
- See Details “A” & “B” on GCP Dwg. CW-8

**Base of Wall Detail**

- Insulation
- Joint reinforcement
- Weeps at 16 in. (406 mm) O.C.
- Finished grade
- See alternate Base of Wall Details—GCP

**Sill Detail**

- Sill Detail
- 8 in. (203 mm) nominal
- 10 in. & 12 in. (254 mm & 305 mm) similar

**Masonry Opening Head Flashing**

- Masonry Opening Head Flashing
- Joint reinforcement
- Perm-A-Barrier Wall Flashing with end dams
- Insulation
- Dry-Block in CMU & mortar
- Weeps at 16 in. (406 mm) O.C.

**Perm-A-Barrier Flashing Details at Inside and Outside Corners**

- Perm-A-Barrier Flashing
- Cavity insulation
- Joint reinforcement & veneer anchor
- Dry-Block in CMU & mortar

**Notes**
- No veneer shown for clarity

**Base of Wall Detail**

- Insulation
- Joint reinforcement
- Weeps at 16 in. (406 mm) O.C.
- Finished grade
- See alternate Base of Wall Details—GCP

**Sill Detail**

- Sill Detail
- 8 in. (203 mm) nominal
- 10 in. & 12 in. (254 mm & 305 mm) similar

**Masonry Opening Head Flashing**

- Masonry Opening Head Flashing
- Joint reinforcement
- Perm-A-Barrier Wall Flashing with end dams
- Insulation
- Dry-Block in CMU & mortar
- Weeps at 16 in. (406 mm) O.C.

**Notes**
- No veneer shown for clarity
### Supply

<table>
<thead>
<tr>
<th>Product</th>
<th>Unit of Sale</th>
<th>Approximate Coverage</th>
<th>Weight</th>
<th>Palletization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Perm-A-Barrier Wall Flashing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>— 12 in. (305 mm)</td>
<td>3 rolls</td>
<td>75 linear ft per roll</td>
<td>22.5 lbs/roll</td>
<td>25 cartons (75 rolls) per pallet</td>
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<tr>
<td>— 18 in. (457 mm)</td>
<td>2 rolls</td>
<td>75 linear ft per roll</td>
<td>33.7 lbs/roll</td>
<td>25 cartons (50 rolls) per pallet</td>
</tr>
<tr>
<td>— 24 in. (610 mm)</td>
<td>1 roll</td>
<td>75 linear ft per roll</td>
<td>49.7 lbs/roll</td>
<td>35 cartons (35 rolls) per pallet</td>
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<tr>
<td>— 36 in. (914 mm)</td>
<td>1 roll</td>
<td>75 linear ft per roll</td>
<td>67.7 lbs/roll</td>
<td>25 cartons (25 rolls) per pallet</td>
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<tr>
<td>Bituthene Mastic—5 gal pail</td>
<td>1 pail</td>
<td>approx. 120 ft at 60 mils</td>
<td>54 lbs/pail</td>
<td>36 pails per pallet</td>
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<tr>
<td>Bituthene Mastic—30 oz tube</td>
<td>12 tubes</td>
<td>approx. 30 linear ft x 1/4 in. bead</td>
<td>32 lbs/carton</td>
<td>72 cartons (864 tubes) per pallet</td>
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<tr>
<td>S100 Sealant—29 oz. Cartridge</td>
<td>1 cartridge</td>
<td>approx. 30 linear ft x 1/4 in. bead</td>
<td>29 oz cartridge</td>
<td>10 cartidges/carton</td>
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<tr>
<td>Bituthene Liquid Membrane —1.5 gal pail</td>
<td>1 pail</td>
<td>approx. 200 Linear ft/gal @ 1&quot; wide x 90 mils</td>
<td>16 lbs/pail</td>
<td>100 pails per pallet</td>
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<tr>
<td>Bituthene Liquid Membrane —4 gal pail</td>
<td>1 pail</td>
<td>approx. 200 Linear ft/gal</td>
<td>44 lbs/pail</td>
<td>24 pails per pallet</td>
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<tr>
<td>Perm-A-Barrier Primer Plus —5 gal pail</td>
<td>1 pail</td>
<td>450–500 ft/gal (11–12 m²/L)</td>
<td>43 lbs/pail</td>
<td>36 pails per pallet</td>
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<tr>
<td>Perm-A-Barrier WB Primer —5 gal pail</td>
<td>1 pail</td>
<td>250–350 ft²/gal (6–8 m²/L)</td>
<td>45 lbs/pail</td>
<td>32 pails per pallet</td>
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### Physical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Typical Value</th>
<th>Test Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Green with repeated logo imprint</td>
<td>ASTM D3767, method A</td>
</tr>
<tr>
<td>Thickness</td>
<td>40 mil (1 mm)</td>
<td>ASTM D1970</td>
</tr>
<tr>
<td>Low temperature flexibility</td>
<td>Unaffected at -45°F (-43 °C)</td>
<td>ASTM D412, Die C modified</td>
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<tr>
<td>Tensile strength, membrane</td>
<td>1200 psi (8300 kPa) minimum</td>
<td>ASTM D412</td>
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<tr>
<td>Elongation, ultimate failure of rubberized asphalt</td>
<td>200% minimum</td>
<td>ASTM D1876 modified</td>
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<tr>
<td>Lap adhesion at minimum application temperature</td>
<td>60 lbs/ft (875 N/m) width</td>
<td>ASTM D903</td>
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<tr>
<td>Adhesion to concrete at minimum application temperature</td>
<td>60 lbs/ft (875 N/m) width</td>
<td>ASTM D871</td>
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<tr>
<td>Puncture resistance, membrane</td>
<td>80 lbs (356 N) minimum MD</td>
<td>ASTM E154</td>
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<tr>
<td>Tear resistance, initiation</td>
<td>13 lbs (58 N) minimum MD</td>
<td>ASTM D1004</td>
</tr>
<tr>
<td>Tear resistance, propagation</td>
<td>9 lbs (40 N) minimum MD</td>
<td>ASTM D1938</td>
</tr>
<tr>
<td>Permeance</td>
<td>0.05 perms (2.9 ng/m²-sPa) maximum</td>
<td>ASTM E96, method B</td>
</tr>
<tr>
<td>Water absorption</td>
<td>0.1% maximum</td>
<td>ASTM D570</td>
</tr>
</tbody>
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### 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 S100 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.

gcpat.com | Customer Service: 1-866-333-3726

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