# SECTION 076526

# Self-adhering sheet flashing Perm-A-Barrier® Aluminum Flashing Specification

## PART 1 — GENERAL

1.00 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.01 SUMMARY

A. Materials and installation methods for flexible rubberized asphalt, self-sealing window and door flashing and flashing accessories.

1.02 REFERENCES

A. The following standards and publications are applicable to the extent referenced in the text. The most recent version of these standards is implied unless otherwise stated.

B. American Society for Testing and Materials (ASTM)

1. ASTM D570 – Test Method for Water Absorption of Plastics

2. ASTM E154 – Test Method for Water Vapor Retarders used in contact with Earth Under Concrete Slabs, on Walls or as Ground Cover

3. ASTM D1876 – Test Method for Peel Resistance of Adhesives

4. ASTM D1970 – Standard Specifications for Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection

5. D412 – Test Methods for Vulcanized Rubber & Thermoplastic Rubbers and Thermoplastic Elastomers – Tension

1.03 SUBMITTALS

A. Product Data and Shop Drawings: Submit for each product; Spec-Data®/Data Sheets, details and installation procedures.

B. Test Reports: Indicating compliance with the performance requirements of this section.

C. Samples of flashing.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Comply with manufacturer’s recommendations for storage and handling of each product.

1.06 WARRANTY

A. Standard Product Warranty:

1. Submit manufacturer’s warranty that flashing and accessories are free of defects at time of delivery, and are manufactured to meet manufacturer’s published physical properties and material specifications.

2. Installer to warrant that flashing and accessories have been installed in accordance with manufacturer’s recommendations.

### PART 2 — PRODUCTS

* 1. MATERIALS

1. Flashing Description: 35 mil (0.9 mm) of self-adhesive rubberized asphalt integrally bonded to 5 mil (0.1 mm) of aluminum film to provide a min. 40 mil (1.0 mm) thick membrane. Membrane shall be interleaved with disposable silicone-coated release paper until installed.
2. Performance Requirements:
   1. UV Exposure Limit: Not more than 365 calendar days
   2. Water Absorption, ASTM D570: max 0.1% by weight
   3. Puncture Resistance, ASTM E154: 355N (80 lbs) min.
   4. Lap Adhesion at -4ºC (25ºF), ASTM D1876 Modified: 880 N/m (5.0 lbs./in.) of width
   5. Low Temperature Flexibility, ASTM D1970 Modified: Unaffected to -26ºC (-15ºF)
   6. Tensile Strength, ASTM D412, Die C Modified: min. 4.1 MPa (600 Psi)
   7. Elongation, Ultimate Failure of Rubberized Asphalt: ASTM D412, Die C Modified: min. 200%
3. Acceptable Materials:

Perm-A-Barrier Aluminum Flashing manufactured by GCP Adavanced Technologies Construction Products.

NOTE TO SPECIFIER: Delete the following if a performance specification is required

C. Product: Perm-A-Barrier® Aluminum Flashing manufactured by GCP Adavanced Technologies Construction Products.

D. Aluminum Flashing Accessories:

1. Primer:

a. Description: Water-based primer which imparts an aggressive, high tack finish on the treated substrate.

(1.) Flash Point: No flash to boiling point

(2.) Solvent Type: Water

(3.) VOC Content: Not to exceed 10 g/L

(4.) Application Temperature: -4ºC (25ºF) and above

(5.) Freezing point (as packaged): -7ºC (21ºF)

NOTE TO SPECIFIER: Delete the following if a performance specification is required

b. Product: Perm-A-Barrier WB Primer manufactured by GCP Adavanced Technologies Construction Products.

2. Termination Mastic:

a. Description: Rubberized asphalt-based mastic with 200 g/L max. VOC Content.

NOTE TO SPECIFIER: Delete the following if a performance specification is require

b. Product: Bituthene® Mastic manufactured by GCP Adavanced Technologies Construction Products.

3. Optional Primer:

a. Description: Water-based primer which imparts an aggressive, high tack finish on the treated substrate. 1   
 g/l max. VOC content.

NOTE TO SPECIFIER: Delete the following if a performance specification is required

b. Product: Perm-A-Barrier Primer Plus by GCP Adavanced Technologies Construction Products.

5. Option Primer:

a. Description: High tack low VOC solvent based primer. 200 g/l max. VOC content.

NOTE TO SPECIFIER: Delete the following if a performance specification is required

b. Product: Bituthene Primer B2 LVC manufactured by GCP Adavanced Technologies Construction Products.

6. Optional Primer:

a. Description: Rubber-based primer in solvent.440 g/L max. VOC content.

NOTE TO SPECIFIER: Delete the following if a performance specification is required

b. Product: Bituthene Primer B2 by GCP Adavanced Technologies Construction Products.

### PART 3 — EXECUTION

3.01 EXAMINATION

A. Examine conditions, with installer present, for compliance with requirements for installation, tolerances and other specific conditions affecting performance of flashing. Remove all deleterious materials from surfaces to be flashed.

3.02 INSTALLATION

1. Refer to manufacturer’s literature for recommendations on installation
2. Application of Flexible Membrane Wall Flashing
3. Prime substrate to receive wall flashing as required per manufacturers written instructions.
4. Precut pieces of flashing to easily handled lengths for each location.
5. Remove silicone-coated release paper and position flashing carefully before placing it against the surface.
6. When properly positioned, place against surface by pressing firmly into place by hand roller. Fully adhere flashing to substrate to prevent water from migrating under flashing.
7. Overlap adjacent pieces 50 mm (2 in.) and roll all seams with a hand roller.
8. Trim bottom edge 13 mm (1/2 in.) back from exposed face of the wall. Flashing shall not be permanently exposed to sunlight.
9. At heads, sills and all flashing terminations, turn up ends a minimum of 50 mm (2 in.) and make careful folds to form an end dam, with the seams sealed.
10. Seal top edge of flashing with termination mastic.
11. Do not allow the rubberized asphalt surface of the flashing membrane to come in contact with poly-sulfide sealants, creosote, uncured coal tar products or EPDM.