

SECTION 04 22 00

FLEXIBLE FLASHING SELF-ADHERING TYPE 304 STAINLESS STEEL

PART 1 GENERAL

1.01 SUMMARY

- A. Flexible stainless steel self-adhering flashing.
- B. Related sections:
 - 1. 04 05 16 Masonry Grouting
 - 2. 04 20 00 Unit Masonry

1.02 REFERENCES

- A. Standards of the following as referenced:
 - 1. In the absence of other information, the methods and recommendations of the National Concrete Masonry Association (NCMA), Brick Institute of America (BIA), Rocky Mountain Masonry Institute (RMMI) and ASTM shall be followed.
 - 2. Recycled content & Recyclability.
- B. Industry Standards
 - 1. BIA *Technical Notes on Brick Construction No. 7, Water Penetration Resistance – Design and Detailing*, August 2005.
 - 2. BIA *Technical Notes on Brick Construction No. 28B, Brick Veneer/Steel Stud Walls*, August 2005.

1.03 DEFINITIONS

- A. Terms:
 - 1. Cavity wall flashing: Same as flexible flashing.
 - 2. Foundation sill flashing: Same as flexible flashing.
 - 3. Flexible flashing: Water-proof material typically used in cavity wall construction to contain and assist in the proper water drainage that may penetrate wall system veneer. Other materials may be required to constitute the system.
 - 4. Head and sill flashing: Same as flexible flashing.
 - 5. Through-wall flashing:
 - a) Generally considered that same as flexible flashing.
 - b) Rare definition referred to full width cap flashing.

1.04 SUBMITTALS

- A. Product data: Indicate material type, composition, thickness, and installation procedures.
- B. Samples: 3" x 5" flashing material.
- C. Product Quality & Environmental submittals:
 - 1. Certificates:
 - a) Indicate materials supplied or installed are asbestos free.
 - b) Indicate recycled content: 60% total recycled material; based on 60% Post Industrial Recycled Content.
 - 2. Performance Attributes:
 - a) Tensile strength, >90,000 psi minimum

- b) Puncture Resistance, >2,500 pounds average
- c) When tested as manufactured, product resists growth of mold pursuant to test method ASTM-D3273.
- d) Certify the use of domestic manufactured stainless steel for flashing.
- e) Certify products contain no silica or asbestos.

1.05 QUALITY ASSURANCE

A. Qualifications:

- 1. Manufacturer: Provide flashing materials by single manufacturer with not less than twenty five years of experience in manufacturing flexible flashing products.
- 2. Flashing materials must be able to withstand 300 degrees F temperature without changing the long term performance of the flashing.

PART 2 PRODUCTS

2.01 MANUFACTURED UNITS

A. Flexible flashing:

- 1. Products of manufactureres listed below meeting indicated standards and specified manufacturer’s product data characteristics, except as modified below, are acceptable for use, subject to compliance with specified requirements.
 - a) Product standard of quality:
 - i) York Manufacturing, Inc.; York 304 SS
 - ii) Illinois Products, Inc.; IPCO Self-Adhesive Stainless Steel
 - iii) STS Coatings, Inc.; Wall Guardian Self Adhering Stainless Steel Flashing
 - iv) TK Products, Inc.; TK Self-Adhering Stainless Steel TWF
 - v) Vapro Shield, Inc.; Vapro Thru-Wall Flashing SA
 - vi) Other products that meet the criteria in section 1.04 to 1.06.
 - 2. Characteristics:
 - a) Type: stainless steel core with one uncoated (bare) stainless steel face (outward facing) with a butyl block co-polymer adhesive (inward facing).
 - b) Stainless steel: type 304, ASTM A240. Domestically sourced per DFARS 252.225-7008 and/or DFARS 252.225-7009.
 - c) Adhesive: block co-polymer
 - d) Size: Manufacturer’s standard width rolls.

B. Accessories:

- 1. Polyether sealant:
 - a) York Manufacturing, Inc.; UniverSeal US-100
 - b) STS Coatings; GreatSeal LT-100
 - c) Prosoco, Inc.; R-Guard Joint Seam Sealer
- 2. Splice Tape:
 - a) York Manufacturing, Inc.; York 304SS
 - b) Illinois Products, Inc.; IPCO Self Adhering Stainless Steel Flashing
- 3. Corner and End Dams: form the stainless steel flashing in the field or use 26 guage stainless steel pre-manufactured corners.

4. Mortar deflection: polyester strands that will not degrade and will keep weep vents from clogging with mortar.
 - a) York Manufacturing; Weep-Armor
 - b) Or approved comparable product
5. Termination bar: rigid PVC or stainless steel termination bar with sealant catch lip
 - a) York Manufacturing; T-96 termination bar
 - b) York Manufacturing; SS Term Bar

PART 3 EXECUTION

3.01 INSTALLATION

A. General:

1. Install where indicated, specified, or required in accord with flashing manufacturer's written instructions and as follows:
2. Extend flashing 6" minimum beyond opening. Fold flashing ends at end of openings or horizontal flashing terminations to form end dam or use pre-manufactured units made of 26 gauge stainless steel.
3. Flashing width: Width required starting flush with outside face of exterior wythe, extending through cavity, rising height required to extend above lintel steel at least 2".
4. Splice end joints by overlapping them a minimum of 2" and seal with a compatible sealant or metal splice tape.
5. Masonry back up:
 - a) Surface apply after damp proofing installation specified in Damp proofing/Air Barrier Section in accord with manufacturer's installation instructions.
 - b) Fasten to masonry back-up surface at top by embedding in layer of sealant or use a non-corrosive termination bar and fasten it to the backer wall at the top edge of the flashing and seal the top edge with compatible sealant or use a termination clamp, which is embedded in the block back up wall.
6. Concrete back up:
 - a) Surface apply after damp proofing/air barrier installation specified in damp proofing Section in accord with manufacturer's installation instructions.
 - b) Fasten to concrete surface at top by embedding in layer of sealant or use a non-corrosive termination bar and fasten it to the backer wall at the top edge of the flashing and seal the top edge with a compatible sealant.
7. Stud back up with sheathing:
 - a) Fasten to stud back-up at top by embedding in layer of sealant or use a non-corrosive termination bar and fasten it to the backer wall at the top edge of the flashing and seal the top edge with compatible sealant.
8. Leave ready for certified compatible building felt or air barrier installation lapping flashing top installed in another Section.
9. Fold ends of flashing at end of opening to form dam; seal with polyether sealant or use purchased manufacturer's preformed end dams.
10. Inside and outside corners: Make in industry accepted manner using corner and splice material or purchase manufactured corners from manufacturer.
11. Use stainless steel or copper drip edge any location that the underside of the flashing will be exposed and/or deemed necessary by the design professional or AHJ on the project.

12. Cover flashing within a few days of installation to protect it from damage from the different trades, the environment and falling debris. If flashing is left unprotected and it is punctured, torn, or has loose scrim you should contact the manufacturer for repair instructions.

3.02 SCHEDULES

A. Locations:

1. Exterior door heads.
2. Window heads and sills.
3. Storefront heads.
4. Horizontal control joints.
5. Changes in veneer materials, vertically.
6. Other wall openings.
7. Other locations indicated.

END OF SECTION 04 22 00