

**SECTION 07 65 00**

**FLEXIBLE FLASHING**

Date: 01sep05

**PART 1 - GENERAL**

1.01 SUMMARY

EDIT RELATED SECTIONS TO INCLUDE ONLY SECTIONS IN PROJECT MANUAL.

A. Related sections:

1. 04 05 23 Masonry Accessories.
2. 04 21 13 Brick Masonry
3. 04 22 00 Concrete Unit Masonry
4. 04 22 23 Architectural Concrete Unit Masonry
5. 04 42 00 Exterior Stone Cladding.
6. 04 72 00 Cast Stone Masonry.
7. 05 40 00 Cold Formed Metal Framing.
8. 06 10 00 Rough Carpentry.
9. 07 11 10 Dampproofing.
10. 07 60 00 Flashing and Sheet Metal.
11. 07 65 10 Flexible Flashing/Drainage System.

- B. Alternates: Flexible Flashing/Drainage System Section is specified as alternative method replacing conventional mortar deflection devices, accessory metal drip edge where specified or required, and flexible flashing.

1.02 REFERENCES

A. Standards of the following as referenced:

1. ASTM.
2. Brick Industry Association (BIA).
3. Copper Development Association, Inc. (CDA).

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. 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".
2. Through-wall flashing:
  - a. Generally considered the same as flexible flashing.
  - b. Rare definition referred to full width cap flashing under copings or wall caps.

1.04 SUBMITTALS

- A. Product data: Indicate material type, composition, thickness, and installation procedures.
- B. Samples: 3" by 5" flashing material.

C. Quality control submittals:

DELETE SUB PARAGRAPH BELOW IF NO ASPHALT CONTAINING MATERIAL IS SPECIFIED

- a. Indicate materials supplied or installed are asbestos free.

DELETE PARAGRAPH BELOW IF COPPER FLASHING NOT SPECIFIED.

- b. Indicate recycled content: 90% total recycled material; based on 80% Post Industrial Recycled Content and 10% Post Consumer Recycled Content.

1.05 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer: Provide flashing materials by single manufacturer with not less than ten years of experience in manufacturing products of the type specified.

EDIT FOR FLASHING TYPE SPECIFIED BELOW

- **NO** WARRANTY FOR PLASTIC MATERIALS; **DELETE ENTIRE WARRANTY ARTICLE**
- **5 YEAR** ONLY FOR PEEL-AND-STICK;
- **LIFE OF WALL** FOR COPPER BASED MATERIALS.

1.06 WARRANTY

A. Special warranty:

1. Manufacturer: Warrant flexible flashing material for \*\*  
~~Copper flexible flashing: \*\* life of the wall.~~  
~~Fully adhering composite flexible flashing, (peel and stick): \*\* five years from material date of manufacture.~~  
~~PVC or sheet vinyl flexible flashing: \*\* NOT APPLICABLE.~~
2. Begin warranty at Date of Substantial Completion.

**PART 2 - PRODUCTS**

2.01 MANUFACTURED UNITS

A. Flexible flashing:

1. Products of manufacturers 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.

NERVASTRAL ONLY MAKES PLASTIC FLASHING MATERIAL. DELETE NERVASTRAL IF COPPER OR PEEL-AND-STICK IS SPECIFIED.

2. Acceptable manufacturers:
- a. Advance Building Products, Inc.
  - b. Nervastral, Inc.
  - c. Phoenix Flashing.
  - d. Sandell Manufacturing Company, Inc.
  - e. York Manufacturing, Inc.

MATERIAL IN THE SUBPARAGRAPH BELOW MEETS ALL REQUIREMENTS FOR "LAMINATED COPPER FLASHING" - **USES ADHESIVE WHICH CONTAINS NO ASPHALT WHICH COULD BLEED TO EXTERIOR.**  
MAY BE USED IN COMBINATION WITH ANOTHER COPPER LAMINATED PRODUCT BELOW OR BY ITSELF

3. Copper core type:
- a. Product standard of quality: York Manufacturing, Inc.; York® Multi-Flash™ 500.
  - b. Characteristics:
    - 1) Type: Copper core with non-asphalt adhesive glass fabric laminated to each copper face.
    - 2) Copper type: CDA Alloy 110, 060 temper in accord with ASTM B370-98.

- 3) Copper weights:
  - a) Window sills, storefront sills, and other sill conditions: 5 oz. per sq. ft.
  - b) Other locations: 3 oz. per sq. ft.
- 4) Fabric: Fiberglass fabric; laminated each face copper core with core weight manufacturer identified on product with color coded laminate.
- 5) Adhesive: Non-asphalt for laminating adhesive.
- 6) Size: Manufacturer's standard width rolls.
- 7) Mastic or sealant: Manufacturer's standard for specified flashing.
- c. Termination bar option: Manufacturer's standard 1" wide, minimum by 1/8" thickness, minimum by continuous length pre-punched stainless steel bar or composite material bar complete with stainless steel fasteners.

MATERIAL IN THE SUBPARAGRAPH BELOW MEETS ALL REQUIREMENTS FOR "LAMINATED COPPER FLASHING" - USES ASPHALT WHICH MAY BLEED TO EXTERIOR.

4. Copper core type:
  - a. Product standard of quality: York Manufacturing, Inc.; York® Copper Fabric.
  - b. Characteristics:
    - 1) Type: Copper core with asphalt coated glass fabric laminated to each copper face with surface applied parting agent.
    - 2) Copper type: CDA Alloy 110, 060 temper in accord with ASTM B370-98.
    - 3) Copper weight: \*\* 3 \*\* 5 \*\* 7 \*\* oz. per sq. ft.
    - 4) Fabric: Fiberglass fabric; laminated each face copper core.
    - 5) Asphalt for laminating adhesive: ASTM D449-89(1999)e1, Type II, Grade UC-20.
    - 6) Size: Manufacturer's standard width rolls.
    - 7) Mastic: Manufacturer's standard for specified flashing.
  - c. Termination bar option: Manufacturer's standard 1" wide, minimum by 1/8" thickness, minimum by continuous length pre-punched stainless steel bar complete with stainless steel fasteners.

MATERIAL IN THE SUBPARAGRAPH BELOW MEETS ALL REQUIREMENTS FOR "LAMINATED COPPER FLASHING" - USES ASPHALT WHICH MAY BLEED TO EXTERIOR.

5. Copper core type:
  - a. Product standard of quality: York Manufacturing, Inc.; Cop-R-Tex Duplex.
  - b. Characteristics:
    - 1) Type: Copper core with heavy waterproofed creped kraft paper with fiber reinforcing laminated to each copper face.
    - 2) Copper type: CDA Alloy 110, 060 temper in accord with ASTM B370-98.
    - 3) Copper weights:
      - a) Window sills, storefront sills, and other sill conditions: 5 oz. per sq. ft.
      - b) Other locations: 3 oz. per sq. ft.
    - 4) Fabric: Waterproofed creped kraft paper; bonded to each face copper core.
    - 5) Asphalt for laminating adhesive: ASTM D449-89(1999)e1, Type II, Grade UC-20.
    - 6) Size: Manufacturer's standard width rolls.
    - 7) Mastic: Manufacturer's standard for specified flashing.
  - c. Termination bar option: Manufacturer's standard 1" wide, minimum by 1/8" thickness, minimum by continuous length pre-punched stainless steel bar complete with stainless steel fasteners.

DELETE PARAGRAPH BELOW IF NO "PEEL-AND-STICK" MATERIAL IS REQUIRED - REMEMBER LIMITED FIVE YEAR WARRANTY ON THIS PRODUCT. **NOTE** REQUIREMENT FOR METAL EDGE STRIP.

6. Fully adhering composite flexible flashing type:
  - a. Product standard of quality: York Manufacturing, Inc.; York Seal 8.
  - b. Characteristics:
    - 1) Type: 40 mil minimum thickness by manufacturer standard roll lengths, 32 mil highly adhesive rubberized asphalt compound bonded completely and integrally to eight mil thickness high density four plies cross laminated polyethylene film.

- 2) Termination mastic and surface conditioner/primer: Flashing manufacturer's standard products recommended for use with flashing material.
- 3) Termination bar option: Manufacturer's standard continuous length complete with fasteners.
- 4) Exposed edge metal: 26 gauge stainless steel, #2 finish.
- 5) Provide flashing manufacturer's preformed end dams; material compatible with flashing material.

DELETE PARAGRAPH BELOW IF NO SHEET PLASTIC OR PVC MATERIAL IS REQUIRED - REMEMBER **NO** WARRANTY ON THIS PRODUCT. **NOTE** REQUIREMENT FOR METAL EDGE STRIP.

7. Sheet plastic type:
  - a. Product standard of quality: York Manufacturing, Inc.; Wascoseal7.
  - b. Characteristics:
    - 1) Type: \*\* 30 \*\* 20 \*\* mil minimum thickness by manufacturer standard roll lengths, non-reinforced, homogeneous vinyl sheet with material identification at regular intervals; widths required.
    - 2) Adhesive: Flashing manufacturer's adhesive recommended for use with flashing material.
    - 3) Exposed edge metal: 26 gauge stainless steel, #2 finish.
    - 4) Termination bar: Manufacturer's standard continuous length complete with fasteners.
    - 5) Provide flashing manufacturer's preformed end dams; material compatible with flashing material.

DELETE PARAGRAPH BELOW IF NO BUTYL RUBBER MATERIAL IS SPECIFIED. **NOTE** REQUIREMENT FOR METAL EDGE STRIP.

8. Butyl rubber flashing type:
  - a. Product standard of quality: Carlisle Syntec Systems, Inc.; Butyl Rubber Sheet.
  - b. Characteristics:
    - 1) Type: 60 mil minimum thickness by manufacturer standard roll lengths, butyl rubber compound.
    - 2) Termination bar: Manufacturer's standard continuous length complete with fasteners.
    - 3) Exposed edge metal: 26 gauge stainless steel, #2 finish.
    - 4) Termination mastic and surface conditioner: Flashing manufacturer's standard products recommended for use with flashing material.
    - 5) Provide flashing manufacturer's preformed end dams; material compatible with flashing material.

### 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. Splicing material on material width to manufacture wider pieces is prohibited unless flashing detail requires material wider than normally manufactured.
2. Extend flashing 6" minimum, beyond opening, each side without stretching flashing material. Lap end joints 4" minimum; seal joints completely with specified flashing adhesive or tape. Fold flashing ends at end of openings or horizontal flashing terminations to form end dam.

SPECIFIER NOTE: Mortar deflection devices are 10" tall in cavity. Mortar deflection device height requires that Drawing details for flashing be ABOVE the typical first mortar joint in masonry (or 8" above R.O. height). This means either install flashing 8" higher in next mortar joint OR surface mount flashing using termination bar. Keep flashing top at least 2" above the anticipated level of mortar droppings mortar deflection device.

3. Masonry back up:
  - a. Start flashing 2" from outside face of exterior wythe, extend through cavity, rising height required to extend above lintel steel and mortar deflection device at least 2".
  - b. Use any of three methods below for installation.
    - 1) Method 1: Tuck at least 2" into masonry bed joint during back-up construction.
    - 2) Method 2 using masonry reglet specified in Masonry Accessories Section: Tuck flashing into reglet, secure, and seal.
    - 3) Method 3 using termination bar:
      - a) Surface apply after dampproofing installation specified in Dampproofing Section in accord with manufacturer's installation instructions.
      - b) Install continuous termination bar over flashing face; fasten to masonry surface at top with headed fastener at 16" O.C.
4. Concrete back up:
  - a. Start flashing 2" from outside face of exterior wythe, extend through cavity, rising height required to extend above lintel steel and above mortar deflection device at least 2".
  - b. Use either of two methods below for installation.
    - 1) Method 1: Tuck into previously installed concrete reglet specified in Masonry Accessories Section, secure, and seal.
    - 2) Method 2 using termination bar:
      - a) Surface apply after dampproofing installation specified in Dampproofing Section in accord with manufacturer's installation instructions.
      - b) Install continuous termination bar over flashing face; fasten to concrete surface at top with headed fastener at 16" O.C.
5. Stud back up:
  - a. Flashing width: Start flashing 2" from outside face of exterior wythe, extend through cavity, rising height required to extend above lintel steel and above mortar deflection device at least 2".
  - b. Bed in full bed of flashing manufacturer's adhesive against sheathing material; install termination bar to flashing face at flashing top; fasten to each stud at with headed fastener.
  - c. Leave ready for building felt or air barrier installation lapping flashing top installed in another Section.
6. Lay flashing in continuous mastic bed or silicone sealant bead on masonry supporting steel.
7. Fold ends of flashing at end of opening to form dam; seal.
8. Inside corners: Folded, not cut; seal.
9. Outside corners: Make in industry accepted manner using outside corner and splice material..
10. Additional installation requirements for fully adhering composite flexible flashing, sheet plastic flashing, or butyl rubber flashing:
  - a. Hold flashing membrane back from masonry face to protect from UV damage or deterioration.
  - b. Install stainless steel edge strip continuous at masonry face with flashing lapping and embedded on top of edge strip in accord with specific manufacturer's installation instructions and BIA Tech Note 7. Seal horizontal joint with sealant specified in Joint Sealants Section.
  - c. Install preformed end dams in accord with flashing manufacturer's installation instructions.
  - d. Install termination bar continuous at flashing top in accord with flashing manufacturer's installation instructions.
11. Patch minor punctures with tape or adhesive and material in accord with manufacturer's installation instructions.
12. Replace ripped, torn, or severely damaged flashing with new material.

- A. Locations:
1. Exterior door heads.
  2. Window heads and sills.
  3. Storefront heads.
  4. Horizontal control joints.
  5. Same bed joint as weep hole, continuous, in accord with manufacturer's written instructions.
  6. Changes in veneer materials, vertically.
  7. Other wall openings.
  8. Other locations indicated.

**END OF SECTION 07 65 00**