

SECTION 093000 – SHEET MEMBRANE WATERPROOFING, DRAIN FLASHING

PART 1 - GENERAL

This specification includes drain flashing used in conjunction with tile and dimension stone installations. The content of this section should be combined with the specification for the tile and stone finishes including the setting materials required to complete the sheet membrane installation.

1.1 SUMMARY

Typical Floors: **NobleFlex® Drain Flashing** may be installed on floor substrates for tile and dimension stone installation with clamping ring drains.

Acceptable Floor Substrates: Concrete, mortar bed, backer board, plywood.

A. Section Includes:

1. Drain flashing for joining bonded waterproofing membrane to clamping ring drains in thin bed for **[tile]** **[and]** **[dimension stone]** installations.

1.2 REFERENCES

- A. ANSI A118.10 - American National Standard Specifications for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation.
- B. TCNA Handbook - TCNA Handbook for Ceramic, Glass, and Stone Tile Installation.

1.3 ACTION SUBMITTALS

- A. Product Data: For each specified product.
- B. LEED Submittals:

Include the next paragraph for LEED NC, LEED CS, and LEED for Schools.

1. Certificates for Credit MR 5: For regional materials, indicating location of manufacturer and point of extraction, harvest, or recovery. Include distance to Project, cost, and fraction by weight for regional components.

Include the next paragraph for LEED CI, only.

2. Certificates for Credit MR 5: For regionally manufactured **[and regionally extracted and manufactured]** materials indicating location of manufacturer **[and point of extraction, harvest, or recovery]**. Include distance to Project, cost, **[and fraction by weight]** for regional components.

Include the next paragraph for LEED NC, LEED CI, and LEED CS.

3. Data for Credit IEQ 4.1: For **[adhesives]** **[and]** **[sealants]**, statement of VOC content.

C. Shop Drawings:

1. Include details sheet membrane waterproofing installation, with flashings and terminations.

1.4 INFORMATIONAL SUBMITTALS

A. Field quality-control reports.

PART 2 - PRODUCTS

2.1 SHEET MEMBRANE DRAIN FLASHING

A. Drain Flashing: ANSI A118.10; composite sheet membrane made from chlorinated polyethylene (CPE) with non woven fiber laminated to both sides.

1. Basis of Design Manufacturer: Noble Company.

2. Basis of Design Product: NobleFlex Drain Flashing.

2.2 ACCESSORIES

A. Sealant: Type recommended by sheet membrane manufacturer **[with VOC less than LEED allowable limits]**.

For projects required to meet LEED VOC limits, use NobleSealant 150, only.

1. Basis of Design Manufacturer: Noble Company.

2. Basis of Design Product: NobleSealant 150.

Include Positive Weep Protector for 1-1/2 inch deep NobleFlex Drain Flashings only. Pea gravel or other methods may also be used to keep weep holes from becoming clogged.

B. Weep Hole Protection: Patented weep hole protector made from clear rigid PVC; 0.20 inch thick.

1. Basis of Design Manufacturer: Noble Company.

2. Basis of Design Product: Positive Weep Protector® (U.S. Patent #5,022,430).

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine **[tile]** **[and]** **[stone]** substrates for unacceptable conditions affecting sheet membrane installation.

- B. Examine rough-in for piping to verify actual locations of piping connections before sheet membrane drain flashing installation.
- C. Correct unacceptable conditions before installing sheet membrane drain flashing.

3.2 PREPARATION

- A. Examine to verify that substrate is ready to receive tile and membrane and no deficiency exists that will result in potential defective installation.

3.3 INSTALLATION - SHEET MEMBRANE DRAIN FLASHING

Include this article when sheet membrane is installed on solid substrates including floors.

- A. Comply with ANSI A108.13, TCNA Handbook, and the manufacturer's instructions for installation of sheet membrane floor drains.
- B. Seal membrane to flashing materials approved by manufacturer.

3.4 FIELD QUALITY CONTROL

Include this article for flood testing floor waterproofing installations, only.

- A. Upon completion of sheet membrane waterproofing installation, allow seal between drain flashing and bonded waterproofing membrane to cure, plug drains, dam perimeter of waterproofing and fill with water and test per code.
 - 1. Inspect waterproofing for leaks.
 - 2. Repair leaks and re-test until watertight.
- B. Prepare test and inspection reports. Indicate corrective measures required to make installation watertight.

3.5 PROTECTION

- A. Protect sheet membrane from pedestrian and vehicular traffic and prolonged exposure to sunlight.
- B. Keep sheet membrane clean until **[tile]** **[and]** **[stone]** finishes are installed.

END OF SECTION 093000



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