

SECTION 07 14 13 - HOT FLUID-APPLIED RUBBERIZED ASPHALT WATERPROOFING

1.1 SUMMARY

- A. This Section includes materials and systems for waterproofing foundations and plaza deck surfaces.

1.2 QUALITY ASSURANCE

- A. Installer: An authorized representative, who is trained and approved by manufacturer.

1.3 WARRANTY

- A. Water tightness Warranty: Ten (10) years from date of Substantial Completion.
- B. Installer's Warranty: Two (2) from date of Substantial Completion.

1.4 MATERIALS

- A. Hot Fluid-Applied, Rubberized-Asphalt Waterproofing Membrane: Single component; 100 percent solids; 215 mils thick, fabric reinforced; hot fluid-applied, rubberized asphalt; with water vapor permeability not less than 0.018 perms when tested per ASTM E96, Procedure E, CGSB-37.50-M89.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. American Hydrotech, Inc; Monolithic Membrane 6125.
 - b. Carlisle Coatings & Waterproofing Inc; CCW-500R.
 - c. Soprema, Inc.
 - d. Tremco Incorporated; Tremproof 150.
- B. Elastomeric Flashing Sheet: Manufacturer approved membranes.
- C. Protection Course:
 - 1. Manufacturer approved, semirigid, reinforced-asphaltic core sheets, or
 - 2. Fiberglass-reinforced rubberized asphalt sheets, or
 - 3. Modified bituminous sheet.
- D. Molded-Sheet Drainage Panels: Manufacturer approved, nonwoven or woven-geotextile-faced, molded-plastic-sheet drainage core.
- E. Insulation: Manufacturer approved, extruded-polystyrene board.
- F. Insulation Drainage Panels: Manufacturer approved, extruded-polystyrene board insulation, geotextile faced, with grooved drainage channels.

- G. Plaza Deck Pavers: Heavyweight concrete units.
- H. Paver Supports: Adjustable or stackable.

1.5 INSTALLATION

- A. Unreinforced Membrane: 180-mil (4.5-mm) minimum thickness.
- B. Reinforced Membrane: 215 mils (5.5 mm) minimum thickness.

1.6 FIELD QUALITY CONTROL

- A. Full-time site inspection representative.
- B. Each deck area flood tested.
- C. For green roofs, provide Electric field vector mapping (EFVM).

END OF SECTION

SECTION 07 52 16 - STYRENE-BUTADIENE-STYRENE (SBS) MODIFIED BITUMINOUS
MEMBRANE ROOFING

1.1 PREINSTALLATION MEETINGS

- A. Pre-Installation Roofing Meeting.

1.2 LEED SUBMITTALS:

- A. Product Test Reports for Credit SS 7.2: For roof materials, documentation indicating that roof materials comply with Solar Reflectance Index requirement.
- B. Product Data for Credit IEQ 4.1: For adhesives and sealants used inside the weatherproofing system, documentation including printed statement of VOC content.
- C. Laboratory Test Reports for Credit IEQ 4.1: For adhesives and sealants used inside the weatherproofing system, documentation indicating that products comply with the testing and product requirements of California Department of Public Health's (formerly, the California Department of Health Services) "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

1.3 WARRANTY

- A. Manufacturer's Materials and Workmanship Warranty: Twenty (20) years from date of Substantial Completion.
- B. Installer's Warranty: Two (2) years from date of Substantial Completion.

1.4 PERFORMANCE REQUIREMENTS

- A. Roofing System Design:
 - 1. Note: Structural Drawings shall include all design live and dead loads including wind loading on the roof.
 - 2. Corner Uplift Pressure: Provide for **lbf/sq. ft. uplift** as indicated on the Structural Drawings.
 - 3. Perimeter Uplift Pressure: Provide for **lbf/sq. ft. uplift** as indicated on the Structural Drawings.
 - 4. Field-of-Roof Uplift Pressure: Provide for **lbf/sq. ft. uplift** as indicated on the Structural Drawings.
- B. Cool-Roof Performance: LEED - low slope.
- C. Exterior Fire-Test Exposure: Class A.

1.5 MANUFACTURERS

- A. **Basis-of-Design Product:** Subject to compliance with requirements, provide comparable product by one of the following:

1. Siplast, Inc.
2. Soprema, Inc.

1.6 MATERIALS

- A. Walkway Pads: Reinforced asphaltic composition pads with mineral-granule surface to match Roofing Cap Sheet.
- B. Roofing Cap Sheet: SBS-modified asphalt sheet, reinforced with polyester fabric, glass fibers, or a combination of polyester fabric and glass fibers; with white granule surface.
- C. Roofing Membrane Sheets: SBS-modified asphalt sheet, reinforced with polyester fabric, glass fibers, or a combination of polyester fabric and glass fibers.
1. Two Plys.
- D. Roof Insulation: Polyisocyanurate boards in two layers with joints staggered.
1. Tapered Insulation: **1/4 inch per 12 inches.**
- E. Substrate Board (Thermal Barrier): Type X, Glass-mat, water-resistant gypsum substrate.
- F. Vapor Retarder: Self-adhering, rubberized asphalt sheet.
- G. Insulation cant strips.

1.7 INSTALLATION

- A. Roof Insulation: Mechanically fastened.
- B. Roofing System:
1. Deck Type: C (concrete or nonavailable).
 2. Adhering Method: T (torched), M (mopped), or L (cold-applied adhesive), as applicable for conditions of work.
 3. Base Sheet: One, installed over sheathing paper.
 4. Number of Glass-Fiber Base-Ply Sheets: Two.
 5. Number of SBS-Modified Asphalt Sheets: One.
 6. Surfacing Type: M (mineral-granule-surfaced cap sheet).

1.8 FIELD QUALITY CONTROL

- A. Full-time site inspection representative.
- B. Each deck area flood tested.

- C. For green roofs, provide Electric field vector mapping (EFVM).

END OF SECTION