

SECTION 07195

WALL MEMBRANE

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the requirements for furnishing and installing wall membrane over gypsum sheathing at the following locations:
 - 1. Over gypsum sheathing under brick masonry.
 - 2. Over gypsum sheathing under metal lath and plaster.
- B. Related Sections:
 - 1. Brick masonry is specified in Section 04212.
 - 2. Gypsum sheathing is specified in Section 06169.
 - 3. Self-adhering window and door flashing is specified in Section 07657.
 - 4. Metal lath and accessories are specified in Section 09207.

1.02 SUBMITTALS

- A. Product Data and Shop Drawings: Furnish details and installation procedures.
- B. Test Reports: Indicating compliance with the performance requirements of this Section.
- C. Samples of self-adhering sheet waterproofing.

1.03 DELIVERY, STORAGE, AND HANDLING

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

1.04 JOB CONDITIONS

- A. Surfaces to receive self-adhering sheet waterproofing shall be free from projecting nails, wires, or other conditions that might damage membrane.
- B. Surfaces to be covered shall be dry, and shall have dried in fair weather not less than 3-days following wetting by rain or otherwise.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

- A. Grace Construction Products "Perm-A-Barrier Wall Membrane", W.R. Meadows "Mel-Gard" or approved equal.

2.02 MATERIALS

- A. Description: .9 mm (36 mils) of self-adhesive rubberized asphalt integrally bonded to .1 mm (4 mils) of cross-laminated, high-density polyethylene film to provide a min. 1 mm (40 mil) thick membrane. Membrane shall be interleaved with disposable silicone-coated release paper until installed.
- B. Performance Requirements:
 - 1. Water Vapor Transmission: ASTM E96, Method B: 0.05-perms maximum
 - 2. Water Absorption: ASTM D570: Max. 0.1-percent by weight

3. Puncture Resistance: ASTM E154: 40-lbs.
 4. Tear Resistance:
 - a. Initiation: ASTM D1004: min. 7.0-lbs. M.D.
 - b. Propagation: ASTM D1938: min. 4.0 lbs. M.D.
 5. Lap Adhesion at -4-deg. C (25-deg. F): ASTM D1876: 5.0-lbs./in. of width
 6. Low Temperature Flexibility: ASTM D1970: Unaffected to -43-deg. C (-45-deg. F)
 7. Tensile Strength: ASTM D412, Die C Modified: Min. 400-psi
 8. Elongation, Ultimate Failure of Rubberized Asphalt: ASTM D412: Die C: Min. 200-percent.
- C. Primer: As recommended by self-adhering sheet waterproofing manufacturer for substrates to receive self-adhering sheet waterproofing.
1. Description: Water-based primer in solvent with 680 g/l max. VOC content.
 2. Provide Grace Construction Products "Perm-A-Barrier WB Primer" over exterior gypsum sheathing.
- D. Accessories:
1. Surface Conditioner: Grace Construction Products "Perm-A-Barrier Surface Conditioner" or as recommended by self-adhering sheet waterproofing manufacturer.
 - a. Description: Latex-based, water-dispersible liquid for substrate preparation.
 - 1) Flash Point: No flash to boiling point
 - 2) Solvent Type: Water
 - 3) VOC Content: Not to exceed 350 g/l
 - 4) Application Temperature: -4-deg. C (25-deg. F) and above
 - 5) Freeze/Thaw Stability: 5 cycles min.
 - 6) Freezing point (as packaged): -20-deg. C (-5-deg. F)
 2. Termination Mastic: Grace Construction Products "Bituthene Mastic" or as recommended by self-adhering sheet waterproofing manufacturer.
 - a. Description: Rubberized asphalt-based mastic with 200 g/l max. VOC Content.

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 self-adhering sheet waterproofing.

3.02 SUBSTRATE PREPARATION

- A. Substrate shall be smooth and free of voids, spalled areas, loose aggregate and sharp protrusions that would hinder the adhesion or regularity of the self-adhering sheet waterproofing.
- B. Remove deleterious materials from surfaces to be covered.

3.03 INSTALLATION

- A. General: Install self-adhering sheet waterproofing to dry surfaces at air and surface temperatures of -4-deg. C (25-deg. F) and above in accordance with manufacturer's recommendations, at locations indicated.
- B. Self-Adhering Sheet Waterproofing:
 - 1. Precut pieces of membrane into easily-handled lengths.
 - 2. Apply primer over gypsum sheathing.
 - 3. Remove silicone-coated release paper and position membrane carefully before placing length horizontally against the surface.
 - 4. Begin installation at the base of the wall.
 - 5. When properly positioned, place against surface by pressing firmly into place. Roll membrane with extension-handled countertop roller immediately after placement.
 - 6. Overlap horizontally-adjacent pieces 2-inches and roll seams.
 - 7. Form corners and intermediate vertical joints in accordance with manufacturer's recommendations.
 - 8. Subsequent sheets of membrane applied above shall overlap the membrane sheet below by 2-inches. Roll firmly into place.
 - 9. Seal around cast stone anchors and all penetrations with termination mastic. Install membrane flashing over cast stone or brick masonry anchors in contact with self-adhering sheet waterproofing.
 - 10. Slit around cast stone or brick masonry anchors and dowels and seal with termination mastic. Install membrane flashing over anchors.
 - 11. Continue the membrane into openings in the wall, such as doors, windows, etc., and terminate at points that will prevent visibility from interior.
 - 12. At end of each working day seal top edge of self-adhering sheet waterproofing to substrate with termination mastic.
 - 13. Do not allow the rubberized asphalt surface to come in contact with polysulfide sealants, creosote, uncured coal tar products or EPDM.
 - 14. Do not expose self-adhering sheet waterproofing to sunlight for more than 30-days prior to enclosure.
 - 15. Inspect installation prior to enclosing and repair punctures, damaged areas and inadequately lapped seams with a patch of the membrane sized to extend 6-inches in all directions from the perimeter of the affected area.

C. Accessories:

1. When required by dirty or dusty site conditions; by surfaces having irregular or rough texture, or if it becomes difficult to adhere the self-adhering sheet waterproofing to the substrate, apply surface conditioner by spray, brush, or roller at the rate recommended by manufacturer, prior to membrane installation. Allow surface conditioner to dry completely before membrane application.
2. Apply a bead or trowel coat of mastic along membrane edges, seams, cuts, and penetrations.

END OF SECTION