

SECTION 07 10 00 - DAMPROOFING AND WATERPROOFING

PART 1 - GENERAL

1.1 SYSTEM REQUIREMENTS

- A. Damproof all footings, stem walls and grade beams.
- B. Waterproof all basement level foundation walls.
 - 1. Hot fluid-applied rubberized asphalt waterproofing preferred; self-adhering modified bituminous sheet waterproofing acceptable.
 - 2. Provide HDPE sheet waterproofing at blind-side applications; bentonite panel waterproofing not acceptable.
- C. Waterproof all below grade tunnel roofs and all plazas decks over occupied space with hot fluid-applied rubberized asphalt waterproofing.
- D. Provide board insulation and protection course at all foundation walls.

PART 2 - PRODUCTS

2.1 DAMPROOFING

- A. Cold-applied, emulsified-asphalt dampproofing.

2.2 SELF-ADHERING MODIFIED BITUMINOUS SHEET WATERPROOFING

- A. Modified Bituminous Sheet: Minimum 60-mil nominal thickness, self-adhering sheet consisting of 56 mils of rubberized asphalt laminated on one side to a 4-mil- thick, polyethylene-film reinforcement, and with release liner on adhesive side
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. American Hydrotech, Inc. VM75.
 - b. Grace, W.R., & Co.; Bituthene 3000/Low Temperature or Bituthene 4000.
 - c. Meadows, W.R., Inc.; SealTight Mel-Rol.

2.3 HOT FLUID-APPLIED RUBBERIZED ASPHALT WATERPROOFING

- A. Hot Fluid-Applied, Rubberized-Asphalt, Reinforced Waterproofing Membrane: Single component; 100 percent solids; hot fluid-applied, rubberized asphalt.
 - 1. Products: Subject to compliance with requirements, provide one of the following:
 - a. American Hydrotech, Inc.; Monolithic Membrane 6125.
 - b. Tremco Incorporated; Tremproof 6100.
 - 2. Reinforced Membrane: 215 mils thick.

2.4 BONDED HDPE SHEET WATERPROOFING

- A. Bonded HDPE Sheet for Vertical Applications: Uniform, flexible, multilayered-composite sheet membrane consisting of either a HDPE film coated with a pressure-sensitive adhesive and protective release liner, total 32-mil thickness.
 - 1. Basis-of-Design Product: Subject to conformance with requirements, provide W.R. Grace & Co. Preprufe 160R or comparable product.

- B. Bonded HDPE for Horizontal Applications: Uniform, flexible, multilayered-composite sheet membrane consisting of an HDPE film coated with pressure-sensitive adhesive and protective release liner, total 46-mil thickness.
 - 1. Basis-of-Design Product: Subject to conformance with requirements, provide W.R. Grace & Co. Preprufe 300R or comparable product.

2.5 MOLDED-SHEET DRAINAGE PANELS

- A. Nonwoven-Geotextile-Faced, Molded-Sheet Drainage Panel: Composite subsurface drainage panel consisting of a studded, nonbiodegradable, molded-plastic-sheet drainage core; with a nonwoven, needle-punched geotextile facing with an apparent opening size not exceeding No. 70 sieve laminated to one side of the core and a polymeric film bonded to the other side; and with a vertical flow rate of 9 to 15 gpm per ft.

2.6 INSULATION

- A. Board Insulation: Extruded-polystyrene board insulation complying with ASTM C 578, Type IV, 25-psi minimum compressive strength; square or shiplap edged.

PART 3 - EXECUTION (Not Applicable)

END OF SECTION 07 10 00