

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes the following:
 - 1. Rubberized-asphalt sheet waterproofing for vertical and horizontal application.
 - 2. Below grade waterproofing.
 - 3. Molded-sheet drainage panels for vertical application.
 - 4. Protection panels for horizontal application.

1.2 PERFORMANCE REQUIREMENTS

- A. Provide waterproofing that prevents the passage of water and directs to proper drainage location.

1.3 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified installer who is authorized, approved, or licensed by waterproofing manufacturer to install manufacturer's products.
- B. Source Limitations: Obtain waterproofing materials, protection course, and molded-sheet drainage panels through one source from a single manufacturer.
- C. Preinstallation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review requirements for waterproofing, including surface preparation specified under other Sections, substrate condition and pretreatment, minimum curing period, forecasted weather conditions, special details and sheet flashings, installation procedures, testing and inspection procedures, and protection and repairs.
- D. Have product listing available on site for each specific application of material.

1.4 PROJECT CONDITIONS

- A. Environmental Limitations: As required to maintain manufacturer's warranty.

1.5 WARRANTY

- A. Special Manufacturer's Warranty: Written warranty, signed by waterproofing manufacturer agreeing to replace waterproofing material that does not comply with requirements or that does not remain watertight during specified warranty period.
 - 1. Installation observation and approval is provided by the Manufacturer.
 - 2. Warranty Period: Five years after date of Notice of Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Products: Subject to compliance with requirements, provide one of the following products:
 - 1. Rubberized-Asphalt Sheet Waterproofing System to conform with the material requirements of Section 2.2 below:

- a. Tremco: Paraseal LG – campus preferred product for all below grade water-proofing
- b. Approved equal.
- c. MiraDRAIN: MiraDRAIN 600 series drain board.

2.2 MATERIALS

- A. Rubberized Bentonite impregnated sheets: self-sealing, expandable layer of granular bentonite laminated at the rate of up to one pound per square foot to an impermeable, high density polyethylene (HDPE).

2.3 AUXILIARY MATERIALS

- A. General: Furnish auxiliary materials recommended by waterproofing manufacturer for intended use and compatible with sheet waterproofing, including but not limited to:
 - 1. Primer
 - 2. Joint filler and sealant tapes
 - 3. Aluminum termination bars

2.4 MOLDED-SHEET DRAINAGE PANELS

- A. Molded-Sheet Drainage Panel: Prefabricated, composite drainage panels, manufactured with a permeable geo-textile facing laminated to a molded-plastic-sheet drainage core.
- B. Drainage collection device: All waterproofing shall have drainage to a hard pipe system connected to a storm drain. All drainage must be at 1% minimum.

PART 3 - EXECUTION

3.1 GENERAL

- A. As required to maintain manufacturer's warranty.

END OF SECTION