

**SECTION 071113 BELOW-GRADE DAMPPROOFING**

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

- A. The Work of this Section includes all labor, materials, equipment and services necessary to complete the below-grade dampproofing as shown on the drawings and/or specified herein, including but not limited to, the following:
  - 1. Dampproofing applied to exterior side of foundation walls.
  - 2. Protection board.

1.3 RELATED SECTIONS

- A. Cast-in-Place Concrete - Section 033000.
- B. Earthwork - Section 312000.

1.4 SUBMITTALS

- A. Product data for each type of product specified, including data substantiating that materials comply with requirements for each dampproofing material specified. Include recommended method of application, recommended primer, number of coats, coverage or thickness, and recommended protection course.
- B. Certification by dampproofing manufacturer that products supplied comply with local regulations controlling use of volatile organic compounds (VOCs).

1.5 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials to the job site, ready for use in the manufacturer's original and unopened containers and packaging, bearing labels as to type of material, brand name, and manufacturer's name. Delivered materials shall be identical to approved samples.
- B. Store materials under cover in a dry and clean location, off the ground. Remove materials which are damaged or otherwise not suitable for installation from the job site and replace with acceptable materials.

1.6 JOB CONDITIONS

- A. Environmental Requirements: Dampproofing materials shall not be installed on wet surfaces, or when the temperature is 32 deg. F. and falling.

## **PART 2 - PRODUCTS**

### **2.1 MATERIALS**

- A. Provide trowel grade mastic manufactured from a blend of selected asphalts, stabilizers, fibers and solvents in compliance with ASTM D 4586, Type 1, (non-asbestos) equal to Karnak 86 AF manufactured by the Karnak Corp. or equal made by Sonneborn, Anti- Hydro or approved equal.
- B. Priming Material: Applied to the concrete surfaces prior to the installation of the dampproofing, as required and/or recommended by the manufacturer.
- C. Protection Boards: For the protection of the dampproofing after installation and before backfilling: provide 1/8" thick, multi-ply, semi-rigid board, consisting of a mineral stabilized asphalt core sandwiched between layers of asphalt saturated felt, and faced on one side with polyethylene film.
  - 1. W.R. Meadows Inc.
  - 2. Sonneborn.
  - 3. Or approved equal.
- D. Glass Fabric: Woven glass fabric, treated with asphalt, complying with ASTM D 1668, Type I.

## **PART 3 - EXECUTION**

### **3.1 INSPECTION**

- A. Examine the areas and conditions where below-grade dampproofing is to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

### **3.2 PREPARATION**

- A. Surfaces to Receive Dampproofing: Clean, dry, smooth and free from surface treatments which may inhibit the bond of the dampproofing. Treat imperfections in these surfaces such as large cracks, honeycombs and holes prior to the dampproofing application, by repair work consisting of filling with cement, or as directed.
- B. Install separate flashings and corner protection stripping, as recommended by prime materials manufacturer, where indicated to precede application of dampproofing. Comply with details shown and with manufacturer's recommendations. Pay particular attention to requirements at building expansion joints, if any.
- C. The start of the dampproofing installation shall imply acceptance of those surfaces, and conditions encountered in the field, to install the work, as recommended and as specified.

### **3.3 INSTALLATION**

- A. Perform the work using skilled workmen in accordance with the acceptable manufacturer's instructions and directions.

- B. Prime surfaces to receive dampproofing using Karnak No. 108 primer, as recommended by the manufacturer, carefully following label instructions as to rate of coverage.
- C. Apply two (2) coats of dampproofing continuously, at a rate of 6 gallon/100 sq. ft. per coat. Thickness is dictated by manufacturer recommendations. Only to be used on non-waterproofed exterior foundation walls.
- D. At changes in plane or where otherwise shown as "reinforced", install lapped course of glass fabric in first coat of dampproofing compound before it thickens.
- E. Install 2" x 2" cant strip of bituminous grout at base of vertical dampproofing where it meets horizontal surface.
- F. Apply vertical dampproofing down walls from finished grade line to top of footing, extend over top of footing, and down a minimum of 6" over outside face of footing. Extend 12" onto intersecting walls and footings, but do not extend onto surfaces exposed to view when the Project is completed.
- G. Protect the installed dampproofing by embedding the protection boards into the dampproofing when the dampproofing becomes tacky, or as recommended by the manufacturer.

**3.4 PROTECTION**

- A. Protect surfaces adjacent to the dampproofing operations against staining or other damage during the work of this Section.
- B. Staining or soiling which does occur to the adjacent materials shall be removed as the work progresses, including smear, spills or displaced materials. Leave installed work in a neat condition upon completion.
- C. Backfilling against completed dampproofing shall not occur for at least 72 hours.

**END OF SECTION 071113**