**SECTION 07 11 13**

**BITUMINOUS DAMPPROOFING**

**PART 1 GENERAL**

1. RELATED DOCUMENTS
   1. The provisions of the General Conditions, Supplementary Conditions, and the Sections included under Division 1, General Requirements, are included as a part of this Section.
2. SUMMARY
   1. The Work required under this Section consists of bituminous dampproofing and related items necessary to complete the Work, including:
      1. Cold applied asphalt bitumen dampproofing
      2. Protective covering
   2. Provide labor, materials, and equipment necessary for providing necessary coatings to stop moisture penetration through surfaces of walls below grade.
   3. Apply to interior masonry or concrete walls below grade, which have additional layers of metal framing and gypsum board.
   4. Apply to concrete faces of inclined ramp that are below grade.
3. REFERENCES
   1. ASTM D41/D41M – Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing
   2. ASTM D43/D43M – Standard Specification for Coal Tar Primer used in Roofing, Dampproofing, and Waterproofing
   3. ASTM D449 – Standard Specification for Asphalt Used in Dampproofing and Waterproofing
   4. ASTM D450/D450M – Standard Specification for Coal Tar Pitch Used in Roofing, Dampproofing and Waterproofing
   5. ASTM D1187/D1187M – Standard Specification for Asphalt Base Emulsions for Use as Protective Coatings for Metal
   6. ASTM D2822/D2822M – Standard Specification for Asphalt Roof Cement, Asbestos Containing
   7. ASTM D3747 – Standard Specification for Emulsified Asphalt Adhesive for Adhering Roof Insulation
   8. NRCA (National Roofing Contractors Association) - Waterproofing Manual
   9. FBC - Florida Building Code
4. SUBMITTALS
   1. Section 01 33 00 - Submittal Procedures
   2. Product Data: Provide properties of primer, bitumen, and mastics.
   3. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.
5. QUALITY ASSURANCE
   1. Perform work in accordance with NRCA Waterproofing Manual.
   2. Applicator: Company specializing in performing the work of this section with minimum 5-years of documented experience.
6. ENVIRONMENTAL REQUIREMENTS
   1. Section 01 60 00 - Material Equipment and approved equals
   2. Maintain ambient temperatures above 40°F for 24 hours before and during application and until membrane has cured.

**PART 2 PRODUCTS**

1. COLD ASPHALTIC MATERIALS
   1. Asphalt Emulsion: Conforming to ASTM D3747.
   2. Asphalt Primer: ASTM D41/D41M, compatible with substrate.
   3. Asphalt Cement: ASTM D2822/D2822M, Type I.
2. ACCESSORIES
   1. Protection Board: ⅛" thick biodegradable hardboard
   2. Flexible Flashings: Butyl

**PART 3 EXECUTION**

1. EXAMINATION
   1. Section 01 31 00 – Project Management and Coordination: Verify of existing conditions before starting work.
   2. Verify substrate surfaces are durable, free of matter detrimental to adhesion or application of dampproofing system.
   3. Verify the secure installation of items penetrating surfaces receiving dampproofing.
2. PREPARATION
   1. Protect adjacent surfaces not designated receiving dampproofing.
   2. Clean and prepare surfaces receiving dampproofing in accordance with manufacturer's instructions.
   3. Do not apply dampproofing to surfaces unacceptable to manufacturer or applicator.
   4. Apply mastic to seal penetrations, small cracks or honeycomb in substrate.
3. APPLICATION
   1. Prime surfaces in accordance with manufacturer's instructions
4. INSTALLATION - PROTECTION BOARD
   1. Place protection board directly against membrane; butt joints.
   2. Install the protection board to substrate onto tacky dampproofing surface.
      1. Scribe and cut boards around projections, penetrations and interruptions.

END OF SECTION