

SECTION 07160
BITUMINOUS DAMPPROOFING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. 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.

1.2 SUMMARY

- A. 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.
- B. Provide labor, materials, and equipment necessary for providing necessary coatings to stop moisture penetration through surfaces of walls below grade.
- C. Apply to interior masonry or concrete walls below grade, which have additional layers of metal framing and gypsum board.
- D. Apply to concrete faces of inclined ramp that are below grade.

1.3 REFERENCES

- A. ASTM D41 – Standard Specification for Asphalt Primer Used in Roofing and Waterproofing
- B. ASTM D43 – Standard Specification for Coal Tar Primer used in Roofing, Dampproofing and Waterproofing
- C. ASTM D449 – Standard Specification for Asphalt Used in Dampproofing and Waterproofing.
- D. ASTM D450 – Standard Specification for Coal Tar Pitch Used in Roofing, Dampproofing and Waterproofing
- E. ASTM D1187 – Standard Test Method for Asphalt-Base Emulsions for Use as Protective Coatings for Metal.
- F. ASTM D2822 – Standard Specification for Asphalt Roof Cement
- G. ASTM D3747 – Standard Specification for Emulsified Asphalt Adhesive for Adhering Roof Insulation
- H. NRCA (National Roofing Contractors Association) - Waterproofing Manual.
- I. Florida Building Code.

1.4 SUBMITTALS

- A. Section 01300 - Submittals: Procedures for submittals
- B. Product Data: Provide properties of primer, bitumen and mastics.
- C. Manufacturer's Installation Instructions: Indicate special procedures and perimeter conditions requiring special attention.

1.5 QUALITY ASSURANCE

- A. Perform work in accordance with NRCA Waterproofing Manual.
- B. Applicator: Company specializing in performing the work of this section with minimum five years of documented experience.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Section 01600 - Material and Equipment: Environmental conditions affecting products on site
- B. Maintain ambient temperatures above 40°F for 24 hours before and during application and until membrane has cured.

PART 2 PRODUCTS

2.1 COLD ASPHALTIC MATERIALS

- A. Asphalt Emulsion: Conforming to ASTM D3747.
- B. Asphalt Primer: ASTM D41, compatible with substrate.
- C. Asphalt Cement: ASTM D2822, Type I.

2.2 ACCESSORIES

- A. Protection Board: 1/8" thick biodegradable hardboard.
- B. Flexible Flashings: Butyl

PART 3 EXECUTION

3.1 EXAMINATION

- A. Section 01040 - Coordination and Meetings: Verify of existing conditions before starting work.
- B. Verify substrate surfaces are durable, free of matter detrimental to adhesion or application of dampproofing system.
- C. Verify items, which penetrate surfaces receiving dampproofing, are securely installed.

3.2 PREPARATION

- A. Protect adjacent surfaces not designated receiving dampproofing.
- B. Clean and prepare surfaces receiving dampproofing in accordance with manufacturer's instructions.
- C. Do not apply dampproofing to surfaces unacceptable to manufacturer or applicator.
- D. Apply mastic to seal penetrations, small cracks or honeycomb in substrate.

3.3 APPLICATION

- A. Prime surfaces in accordance with manufacturer's instructions

3.4 INSTALLATION - PROTECTION BOARD

- A. Place protection board directly against membrane; butt joints.
- B. Adhere protection board to substrate to tacky dampproofing surface. Scribe and cut boards around projections, penetrations and interruptions.

END OF SECTION