

**SECTION 07 11 13
BITUMINOUS DAMPPROOFING**

SPEC WRITER NOTES:

1. Delete text between // _____ // not applicable to project. Edit remaining text to suit project.
2. Intended use is for exterior walls where no hydrostatic head occurs or is anticipated, as water percolates through the soil or in cavity spaces to weeps. Clearly identify location on drawings and interface with other waterproofing system with terminology consistent with specification section title.

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Bituminous dampproofing on // concrete // and // masonry // surfaces.

1.2 RELATED REQUIREMENTS

SPEC WRITER NOTE: Update and retain references only when specified elsewhere in this section.

- A. Concrete: Section 03 00 00, CAST-IN-PLACE CONCRETE.
- B. Concrete Foundation Walls: Section 03 30 53, (SHORT FORM) CAST-IN-PLACE CONCRETE.
- C. Masonry Surfaces Below Grade: Section 04 20 00, UNIT MASONRY.

1.3 APPLICABLE PUBLICATIONS

- A. Comply with references to extent specified in this section.
- B. ASTM International (ASTM):
 1. C578-15 - Rigid, Cellular Polystyrene Thermal insulation.
 2. D226/D226M-09 - Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing.
 3. D449/D449M-03(2014)e1 - Asphalt Used in Dampproofing and Waterproofing.
 4. D1227-13 - Emulsified Asphalt Used as a Protective Coating for Roofing.
 5. D6380/D6380M-03(2013)e1 - Asphalt Roll Roofing (Organic Felt).
 6. D6506-01(2009) - Asphalt Based Protection Board for Below-Grade Waterproofing.

1.4 SUBMITTALS

- A. Submittal Procedures: Section 01 33 23, SHOP DRAWINGS, PRODUCT DATA, AND SAMPLES.
- B. Manufacturer's Literature and Data:
 - 1. Description of each product.
 - 2. Application instructions.

1.5 DELIVERY

- A. Deliver products in manufacturer's original sealed packaging.
- B. Mark packaging, legibly. Indicate manufacturer's name or brand, type, color, production run number, and manufacture date.
- C. Before installation, return or dispose of products within distorted, damaged, or opened packaging.

1.6 STORAGE AND HANDLING

- A. Store products indoors in dry, weathertight // conditioned // facility.
- B. Protect products from damage during handling and construction operations.

1.7 WARRANTY

SPEC WRITER NOTE: Always retain construction warranty. FAR includes Contractor's one year labor and material warranty.

- A. Construction Warranty: FAR clause 52.246-21, "Warranty of Construction."

PART 2 - PRODUCTS

2.1 SYSTEM PERFORMANCE

- A. Control moisture migration through concrete or masonry exterior walls where no hydrostatic head occurs or is anticipated.

2.2 PRODUCTS - GENERAL

- A. Provide each product from one manufacturer and from one production run.
- B. Hot Applied Bituminous Dampproofing:
 - 1. Asphalt: ASTM D449/D449M, Type I.
- C. Cold Applied Bituminous Dampproofing:
 - 1. Asphalt: ASTM D1227, Type III (spray grade).

2.3 ACCESSORIES

- A. Asphalt Saturated Felt: ASTM D226/D226M, Type I, 7 kg (15 pound).

- B. Protection Course: // ASTM D6506, 3 mm (1/8 inch) thick, semirigid sheets of fiberglass or mineral-reinforced-asphaltic core, pressure laminated between two asphalt-saturated fibrous liners. // Smooth-surfaced roll roofing complying with ASTM D6380/D6380M, Class S, Type III. // Extruded-polystyrene board insulation, unfaced, ASTM C 578, Type X, 13 mm (1/2 inch) thick. //

PART 3 - EXECUTION

3.1 PREPARATION

- A. Examine and verify substrate suitability for product installation.
- B. Protect existing construction and completed work from damage.
- C. Clean substrates. Remove contaminants capable of affecting subsequently installed product's performance.
- D. Remove free water; surfaces may remain damp.

3.2 INSTALLATION - GENERAL

- A. Install products according to manufacturer's instructions // and approved submittal drawings //.
 - 1. When manufacturer's instructions deviate from specifications, submit proposed resolution for Contracting Officer's Representative consideration.

3.3 DAMPPROOFING INSTALLATION

- A. Applications:
 - 1. Apply to surfaces where indicated on drawings.
- B. Apply dampproofing at 1 L/sq. m (2-1/2 gal. per 100 sq. ft.), minimum, each coat.
 - 1. Allow 24 hours drying time between coats.
- C. Adhere protection course to conceal // foundation // dampproofing before backfilling.

3.4 PROTECTION

- A. Protect dampproofing and protection course from construction operations.
- B. Repair damage.

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