

416.04

The cost of **waterproofing** applied to prestressed concrete members before erection, and the cost of waterproofing joints and damaged areas, shall be included in the price bid per member.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Waterproofing	Square yard

SECTION 417—DAMP-PROOFING

417.01—Description.

This work shall consist of furnishing and applying damp-proofing material to concrete surfaces in accordance with the plans and these specifications.

417.02—Materials.

Materials shall conform to the applicable requirements of Section 213.

417.03—Procedures.

- (a) **Surface Preparation:** Surfaces shall be cleaned of loose, foreign material and shall be dry. The Engineer may require the surface to be scrubbed with water and a stiff brush, after which it shall be allowed to dry before application of primer.
- (b) **Application:** The clean surface shall be brush painted or spray painted with at least two coats of primer, using at least 1/8 gallon per square yard of surface per coat. On the primed surface, one application of an asphalt seal coat shall be applied by brush, using at least 1/10 gallon per square yard.

Asphalt shall be confined to areas to be damp-proofed and shall not be dripped or spread on any other parts of the structure.

417.04—Measurement and Payment.

When a pay item, **damp-proofing** will be paid for at the contract unit price per square yard. When not a pay item, the cost thereof shall be included in the price for other appropriate pay items.

Payment will be made under:

<u>Pay Item</u>	<u>Pay Unit</u>
Damp-proofing	Square yard

SECTION 418—TIMBER STRUCTURES

418.01—Description.

This work shall consist of furnishing and erecting timber materials required to complete a structure in accordance with these specifications and in reasonably close conformity with the lines and grades shown on the plans or as established by the Engineer.

418.02—Materials.

- (a) **Lumber and Timber:** Lumber and timber shall conform to the requirements of Section 236.
- (b) **Structural Shapes:** Rods, plates, shapes, and eyebars shall conform to the requirements of Section 226.
- (c) **Castings:** Castings shall be cast steel or gray iron, as shown on the plans, conforming to the applicable requirements of Section 224.
- (d) **Hardware:** Machine bolts, drift bolts, and dowels shall conform to the requirements of Section 226. Washers may be ogee gray iron or malleable castings or may be cut from mild steel plate as shown on the plans.

Machine bolts shall have square heads and nuts. Nails shall be cut or round wire of standard form. Spikes shall be cut, wire, or boat spikes as shown on the plans.

Nails, spikes, bolts, dowels, washers, and lag screws shall be black or galvanized, as specified on the plans.

Other hardware, except malleable iron connectors, shall be galvanized in accordance with the requirements of Section 233 or cadmium plated in accordance with the requirements of ASTM A165, Type OS.

- (e) **Paint:** Paint shall conform to the requirements of Section 231.