

## 701-B-068 BITUMEN COATING FOR PILES

*(Revised 09-01-05)***Description**

The work shall consist of furnishing and applying bitumen coating and primer to steel pile surfaces in accordance with these specifications and in reasonably close conformance with the lines and at the locations shown on the plans or as directed.

**Materials**

Bitumen coating shall be canal liner bitumen in accordance with ASTM D 2521. It shall have a softening point of 190°F to 200°F (88°C to 93°C), a penetration of 56 to 61 at 77°F (25°C), and a ductility in excess of 1.38 in. (35 mm) at 77°F (25°C).

Primer shall be in accordance with AASHTO M 116.

**Construction Requirements**

All surfaces to be coated with bitumen shall be dry and thoroughly cleaned of dust and loose materials. Primer or bitumen shall not be applied in wet weather, nor when the ambient temperature is below 65°F (18°C).

Application of the prime coat shall be with a brush or other approved means and in a manner which thoroughly coats the surface of the piling with a continuous film of primer. The primer shall have set thoroughly before the bitumen coating is applied.

The bitumen shall be heated to 300°F (149°C) and applied at a temperature between 200°F and 300°F (93°C and 149°C) by means of one or more mop coats or other approved means. The average coating depth shall be 3/8 in. (10 mm). Whitewashing of the coating may be required during hot weather as directed to prevent running or sagging of the asphalt coating prior to driving of the pile.

Bitumen coated piles shall be protected from sunlight or heat immediately after the coating is applied. The bitumen coating shall not be exposed to damage or contamination during storage, hauling, or handling. Once the bitumen coating has been applied, dragging the piles on the ground or the use of cable wraps around the piles during handling will not be permitted. Pad eyes, or other suitable devices, shall be attached to the piles to be used for lifting and handling.

A nominal length of the pile shall be left uncoated as directed where field splices will be required. After completing the field splice, the splice area shall be brush coated or mop coated with a minimum of one coat of bitumen as directed.

**Method of Measurement**

This work will not be measured for payment.

**Basis of Payment**

No direct payment will be made for this work. The cost of this work shall be included in the cost of the piling specified. The cost of this work shall include the costs of furnishing all labor, materials, tools, equipment, and incidentals for applying the bitumen coating and primer. If the bitumen coating is damaged, it shall be reapplied as directed with no additional payment.

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