

TECHNICAL SPECIAL PROVISION
FOR
MEMBRANE WATERPROOFING SYSTEM

Prepared By:

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Date: 06/18/19

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Certificate of Authorization: 30505

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SECTION 456

MEMBRANE WATERPROOFING SYSTEM

456-1 Description.

The work shall consist of furnishing and applying a membrane waterproofing system consisting of membrane primer and waterproof membrane applied to the surface of the concrete deck surface at the locations shown on the Contract Plans.

The contractor shall select, furnish and apply the membrane waterproofing system indicated in this specification in accordance with the manufacturer's recommendations.

456-2 Materials.

The membrane system shall be one of the following:

1. Crafcro PavePrep SA, as manufactured by Crafcro, Inc., Chandler, AZ
2. Protecto Wrap M-400A, Protecto Wrap Company, Denver, CO
3. Royston 10-A, Chase Corporation, Pittsburgh, PA
4. Sopralene Antirock Waterproofing Membrane, Soprema, Inc. Wadsworth, OH
5. Polyguard NW-75 Membrane, Polyguard Products, Inc., Ennis, TX

456-3 Construction Methods.

The membrane waterproofing system shall be installed in accordance with the membrane manufacturer's instructions and where shown on the Contract Plans.

Protect all materials from rain and physical damage and provide adequate ventilation. Membranes shall be stored where temperatures will not exceed 90°F for extended periods.

Work will not be done during wet-weather conditions. No work will be done when the concrete structural slab surface temperature is below 50°F, or ambient temperatures are below 50°F. The concrete structural slab shall be surface dry at the time of application of the membrane. The CEI inspector will verify that atmospheric conditions are favorable for placement of the system based on the manufacturer's recommendations. Arrange for the membrane manufacturer to have a competent technical representative at the job site during the initial phases of preparation and installation. Supply Material Safety Data Sheets (MSDS) and approved Material Detail Sheets prepared by the membrane manufacturer to the Engineer a minimum of two (2) weeks prior to the scheduled commencement of work. The Material Detail Sheets will contain all material requirements and installation information for each specific waterproofing membrane.

(Bridge Decks) – Begin work no less than (7) calendar days after placement of Portland cement concrete, Portland cement mortar, or epoxy mortar for structural concrete repair. The Engineer

may waive the seven-day requirement if the areas of repair can sustain loads without damage or deformation. Subject to the concurrence of the Engineer, if an alternate concrete repair material is used, follow the manufacturer's instructions for allowable loading.

456-4 Method of Measurement.

The quantity to be measured for waterproof membrane shall be the number of square yards (area) installed in the completed work.

456-5 Basis of Payment.

The quantity to be paid for shall be the number of square yards of membrane incorporated in the work. This includes all primers, mastic, liquid membrane, and protection board used to complete the system. The price bid shall include the cost of furnishing all labor, materials, and equipment necessary to satisfactorily complete the work.

Payment will be made as a lump sum.