

Section 2425. Precast Prestressed Concrete Deck Panels

2425.01 DESCRIPTION.

This specification describes precast prestressed concrete deck panels to be used in the construction of bridge decks. When authorized in the contract documents, these panels may be used in construction of the deck, at the option of the Contractor, in place of the usual removable deck forms. These panels are to remain in place because they are designed to function as part of the deck in the completed structure. When the option is authorized, the contract documents will include details of the panels and their use.

2425.02 MATERIALS.

Produce the panels according to the requirements in the contract documents and [Section 2407](#). Consolidate the concrete for the panels by vibration. Air entrainment will be required. Apply [Article 2407.03, B](#).

2425.03 CONSTRUCTION.

- A.** Fabricate the panels according to the details shown in the contract documents and the approved shop drawings. Submit shop drawings according to [Article 1105.03](#). On skewed decks, the Contractor may form and cast the skewed portion of the deck, or use individually precast skewed end deck panels. A minimum 2 foot (600 mm) bearing length is required along the edge of the panels.
- B.** Set the panels in place over strips of preformed joint filler. Place the reinforcement as shown in the contract documents. Place, consolidate, finish, and cure the concrete of the deck. Prior to placement of the concrete, clean the top surface of each panel and beam as designated in the contract documents. Ensure the panel surface is dry and dust free when cast-in-place concrete is placed on the panel.

2425.04 METHOD OF MEASUREMENT.

If the Contractor chooses to use precast prestressed concrete deck panels in the operations, measurement for construction of the deck will be based on the plan quantities for the various items involved.

2425.05 BASIS OF PAYMENT.

If the Contractor chooses to use precast prestressed concrete deck panels in the operations, payment for construction of the deck will be based on the plan quantities and the associated contract prices for the various items involved. No adjustment will be made for using this option.