

**Reason for DisApproval:**

The manufacturer is not on the “precast product” approved list as per section 704-03.

Spec is DisApproved

601.3110 - - - 11 M - PRECAST CONCRETE PAVER PANELS WITH INTEGRALLY CAST STONE VENEER

**DESCRIPTION**

This work shall consist of fabricating and installing a stone masonry clad reinforced portland cement concrete paver panels for where and as indicated on the plans. The panels shall be constructed of precast concrete with masonry stone or brick integrally cast at the fabrication site.

**MATERIALS**

Materials shall meet the following requirements of the Standard Specifications:

Portland Cement Concrete - General	501
Stone Masonry	560-2
Precast Concrete - General	704-03
Epoxy Coated Bar Reinforcement, Grade 420	709-04
Coating Type Protective Sealer	717-04

Stone Masonry shall be from a Department approved source or approved stockpile, and of the type and color indicated on the plans. The stone dimensions shall be as follows:

- Design depth - 50 mm minimum, allowable depth of 100 mm
- Horizontal dimensions shall be as shown on the plans

Stone faces shall have no spalls or excessive pitting. The finish shall be split face as defined by Table 560-1 of the Standard Specifications. The degree of roughness of exposed faces shall be measured with a straight edge supported between adjacent projections on the stone face. The maximum joint face and depth between stones shall be 10 mm.

The minimum 28 day concrete compressive strength for the panel core shall be 28 MPa. Epoxy coated reinforcement shall be as shown on the plans.

The Basis of Acceptance requirements of 704-03 shall apply to the precast components.

Precast unit tolerances shall conform to the following:

Length	± 13mm (± 1/2")
Width	± 6mm (± 1/4")
Sweep	± 13mm (± 1/2")
Height	± 13mm (± 1/2")

The panels must be approved for use by the New York State Department of Transportation. The paver panels shall be manufactured by:

Stonecast, Inc.®  
P.O. Box 4621  
Queensbury, New York 12804  
Tel. (518) 745-8035

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**CONSTRUCTION DETAILS**

Provide a 3-meter sample section of panel at a location designated by the Engineer. Do not construct additional panels before the sample is approved. Upon approval of the sample panel, the Contractor shall furnish and install panels to conform to the approved sample panel.

The Contractor shall submit shop drawings of the proposed panels for approval.

**Curing.** Precast units shall be wet cured for 7 days. The units may be removed from the forms once a minimum compressive strength of 16.8 MPa (2400 psi) is achieved.

**Inspection, Storage and Handling of Panel Sections.** The precast sections will be inspected at the installation site for the following:

- Damage during shipment
- Conformance to the material requirements
- Quality of the placement of the stone masonry

An additional inspection will be made prior to placement of the panel sections to determine any damage during storage.

**Installation of Panel Sections**

**A. Subgrade Preparation.** The subgrade that is to support the panel shall be prepared to the line and grade of the proposed roadway.

**B. Placement of Panels.** Install the panels in accordance with the procedure shown on the approved shop drawings. The paver panels shall be set on the subgrade as shown on the plans. If a panel does not seat properly, it shall be removed and reset after adjusting the subgrade.

**Repair of Damaged Sections.** Panel sections that are damaged or disturbed prior to acceptance of the contract shall be repaired, realigned or replaced as directed by the Engineer. Sections which cannot be satisfactorily repaired or do not meet dimensional tolerance as determined by the Engineer will be rejected and shall be replaced with acceptable sections. The party responsible for bearing the cost of repair or replacement work will be determined by the Department according to Section 107-09 Damage.

**METHOD OF MEASUREMENT**

This work will be measured as the number of square meters, to one tenth of a square meter, of the precast concrete paver panels with integrally cast stone veneer actually furnished and installed, as specified in the contract documents. The measurements will be taken along the top surface of the panel. Measurement will not include any sample panel sections not incorporated into the work.

**BASIS OF PAYMENT**

The unit price bid shall include the cost of all labor, materials and equipment necessary to satisfactorily complete the work, including the cost of any repairs required.