



SECTION 03 48 19 - PRECAST CONCRETE STAIR TREADS
SECTION 04 23 16 - PREFABRICATED GLASS MASONRY AND CONCRETE PANELS

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:

1. Precast concrete and glass paver panels.
Anchorage and attachments.

B. Related Requirements:

1. Division 01 - General Requirements: Administrative, procedural, and temporary work requirements.

1.2 ADMINISTRATIVE REQUIREMENTS

A. Pre-Installation Conference:

1. Convene at Project site _____ weeks prior to approving shop drawings and fabricator of the panels.
2. Attendance: Architect, Construction Manager, General Contractor, Installer, and related trades.
3. Review: Project conditions, manufacturer requirements, delivery and storage, staging and sequencing, and protection of completed work.

1.3 SUBMITTALS

A. Action Submittals:

1. Shop Drawings: Show panel locations, sections of panels with attachments, for expansion and contraction, and adjacent construction.

Samples: Submit 3 of each full size glass pavers with correct finished

concrete. Informational Submittals:

Calculations: After final approval of all dimensions on shop drawings, submit PE stamped drawings with calculations from a Licensed Engineer by the State of the Project to confirm the panels meet the project requirements.

C. Closeout Submittals:

1. Maintenance Data: Recommendations for cleaning and maintenance of panels, including glass unit replacement.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: **Minimum 10 years' experience** in the manufacture of precast concrete panels and the manufacture of glass pavers.

B. Mockup:

1. Provide mockup of glass masonry and concrete panel if requested.
2. Size: 2' x 2' Panel

C. Approved mockup required prior to fabrication of panels.

D. Provide manufacturer **warranty of 5 years** from date of manufacture or any defects in the precast concrete.

1.5 DELIVERY, STORAGE AND HANDLING

A. Units should be handled appropriately to prevent undue stress, rack, torque, and inappropriate forces on the precast panels.

B. Lift panels according to manufacturers' written instructions.

C. Panels should be stored in dry location and off ground and supported fully along all edges in a level position.

PART 2 PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Seves Glass Block Inc. with offices at 10576 Broadview Rd,
Cleveland, Ohio 44147
440-627-6257 or 877-SEVES11 (877-738-3711)
www.sevesglassblockinc.com inquiry@sevesglassblock.com
- B. Substitutions: Refer to Division 1 for requirements

2.2 COMPONENTS

- A. Prefabricated Glass Masonry and Concrete Panels: Factory fabricated glazed panels with precast concrete framework and traffic bearing, replaceable, glass units.
- B. Performance Requirements:
 - 1. Structural: Withstand minimum live load of 200 PSF plus applicable dead loads and concrete load of ____ on an area that is ____.
 - 2. Thermal movement: Withstand expansion and contraction of components caused by temperature range of ____ to ____ degrees F without buckling stress, failure of joint seals, undue stress on structural elements, damage to fasteners, reduction in performance, or other detrimental effects.
 - 3. Water penetration: No water penetration other than condensation, on underside of panels.
- C. Approved Fabrication Finishes, Color and Pavers:
 - 1. Concrete Panel color: Natural Grey, Mineral Grey, Sand, Beige, Cream, Ivory or Custom Color.
 - 2. Concrete Panel finish: Choose from Manufacturers Standard Range
 - 3. Glass Pavers: Choose from Manufacturers Standard Range

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install panels in accordance with manufacturer's instructions and approved Shop Drawings.
- B. Set panels with full bearing on all supported edges, with top of panels flush with adjoining surfaces, unless otherwise indicated.
- C. Where necessary, build up supports with materials similar to support members.
- D. Set panels to minimum of 1/4 inch per foot slope; set slope to ensure correct directional drainage of surface water without ponding on the panels.
- E. If required, fasten panels to supports as indicated on approved Shop Drawings.
- F. Allow proper space around the perimeter of panels, typically 1/2 inch. Apply joint sealer as specified in Section 07 92 00.

3.2 FIELD QUALITY CONTROL

- A. After installation test panels for water infiltration in presence of Owner or Architect:
 - 1. Flood panels with water for minimum 15 minutes while observing underside for water infiltration.
 - 2. Correct any deficiencies noted and repeat test.

3.3 PROTECTION

- A. Protect installed panels from damage during subsequent construction operations.
- B. Replace cracked, broken, or otherwise damaged glazing/ paver units.

END OF

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