

SECTION 04814

GLASS PAVER FLOOR SYSTEM

PART GENERAL

SECTION INCLUDES

Glass paver floor system, consisting of structural extruded aluminum grid and glass pavers, and with all other items necessary for a complete assembly.

RELATED SECTIONS

Section 03300 - Cast-in-Place Concrete: Concrete structure and slabs.

Section 07900 - Joint Sealers: Sealant installation requirements.

REFERENCES

ASTM B 221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Shapes, and Tubes.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: For both grid system and glass paver. Indicate materials, sizes, shapes, thicknesses, and finishes. Include installation and assembly instructions.

Shop Drawings: Show methods of construction, location and spacing of anchors, and relationship to adjoining work.

DELIVERY, STORAGE, AND HANDLING

Store materials in dry place, off the ground, where temperature will not exceed 90 degrees F (32 degrees C).

Handle material in manner that will prevent damage to finished surfaces. Do not install scratched or damaged components.

WARRANTY

Provide manufacturer's standard 5-year warranty.

Provide 5-year installer's warranty against faulty workmanship.

PART PRODUCTS

MANUFACTURERS

Glass Block Support Grid: Provide "IBP Glass Block Grid System" manufactured by Innovative Building Products, Inc., 2917 W. 7th Street, Fort Worth, TX 76107. ASD.

Glass Pavers: Provide products manufactured by one of the following:

Pittsburgh Corning Corp.
L.E. Smith Glass Company.
Acme Brick Company.

MATERIALS

Glass Block Support Grid: Field assembled, extruded aluminum two-way hollow structural grid, sized to fit glass pavers with one paver to a module, and perimeter frame.

Aluminum: ASTM B 221, 6063-T6 alloy.
Finish: Clear anodized matte finish.

Glass Pavers: Solid glass units, nominal 6 inches (152 mm) square by 1 inch (25 mm) thick.

Pattern: _____.
Color: Clear.
Color: _____.

Paver Boots: Molded EPDM sleeve and setting accessory

Sealant: Dow Corning Corp. "TradeMate" glass block sealant.

Accessories: Provide all sealants, flashings, anchors, fasteners, and other items necessary for complete installation.

PART EXECUTION

EXAMINATION

Verify applicable field dimensions and adjust as necessary to accommodate frame.

Examine supporting structure and correct any conditions that are not in accordance with manufacturer's installation instructions or approved shop drawings.

INSTALLATION

Install grid system and glass pavers according to manufacturer's instructions.

Set grid frame so that top surface of grid and pavers is flush with adjoining floor surfaces, unless otherwise indicated.

Insert paver units into paver boots and set in grid modules.

See Section 07900 for sealant installation requirements.

Apply sealant around exterior face of glass pavers completely filling channel. Tool sealant flush with surface.

Seal joints between grid members.

Apply sealant between perimeter frame and adjoining construction.

CLEANING

Clean exposed surfaces of aluminum grid with clean, soft cloth and mild hand soap using gentle rubbing action. Do not use abrasive or solvent type cleaners, detergents, or paint removers.

Remove labels from glass pavers and clean with soft cloth and water.

PROTECTION

After installation, protect installed work from damage caused by subsequent operations at project site.

END OF SECTION