

SECTION 04812

GLASS BLOCK WINDOW AND WALL SYSTEM

PART GENERAL

SECTION INCLUDES

Glass block window and wall system, consisting of extruded aluminum grid and glass blocks, and with all other items necessary for a complete assembly.

RELATED SECTIONS

Section 07600 - Flashing and Sheet Metal.

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 block. 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.

Selection Samples: Manufacturer's full range of finishes and colors, for selection.

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 warranty.

Provide one year installer's warranty against faulty workmanship and water leakage.

## 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 Block: Provide products manufactured by one of the following:

Pittsburgh Corning Corp.  
Westerwald Glasstein (Solaris).  
Glashaus Inc. (Weck).

### MATERIALS

Glass Block Support Grid: Factory assembled, extruded aluminum two-way T-bar grid, sized to fit glass block with one block to a module, and hollow perimeter frame with predrilled fastener holes.

Aluminum: ASTM B 221, 6063-T6 or 6463-T6 alloy.  
Finish: As selected by Architect from manufacturer's standard finishes.

Glass Block: Partially evacuated hollow units, 7-3/4 inches (196 mm) square by 3-1/8 inches (79 mm) thick.

Pattern: \_\_\_\_\_.

Color: Clear.

Color: \_\_\_\_\_.

Foam Tape: Adhesive backed, closed cell foam, 1/16 inch (1.5 mm) or 3/32 inch (2.5 mm) thick.

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

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

### INSTALLATION

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

Apply continuous sealant bead to back of window Z-bar.

Place frame in rough opening and adjust until plumb and level. Fasten frame in place using screws or nails and predrilled holes.

Adhere foam tape to entire perimeter of each glass block and insert glass block into grid from exterior side so that block is pressed against T-bar without rolling back foam tape.

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

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 block 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