

STANDARD SPECIFICATION
JANUARY 2010

DIVISION 8

SECTION 8E GLASS AND GLAZING

8E.01 GENERAL: Comply with all of the Contract Documents.

8E.02 SCOPE OF WORK: Refer to "Division Scope of Work"

8E.03 WORK NOT INCLUDED

A. The following items are excluded from the work of this Section:

1. Providing windows - Section 8C.
2. Metal entrance doors - Section 8F.
3. Skylights - Section 7C.

8E.04 MATERIALS

A. Glass: ANSI Z97.1-1972

1. Insulating glass, sealant-bound: Two sheets of 1/8" minimum, 1/4" maximum glass, permanently and hermetically sealed together at edges with spacers, sealant to provide 1/2" minimum dehydrated air space with 60 degrees F. dew point and a value coefficient of .69 or lower, fabricated to the sizes, shapes and thickness indicated. Wrap-around vinyl glazing channels.
 - a. Sealed insulated glazing units shall have an extended five year guarantee from the manufacturer of the units, and the Contractor shall submit copies of this guarantee with his other submissions.
 - b. The Contractor shall submit a testing lab certification that the sealed insulated glass units comply with ASTM Specification for Sealed Insulating Glass Units E 774, Class A.
 - c. The IGCC (or ALI) label must be permanently marked on a visible portion of each sealed insulating glass unit. The label shall be etched, sand blasted, embossed, printed or otherwise permanently marked on the spacer or at least one component pane of the sealed unit. This label must be visible after the window has been installed. The IGCC or ALI permanent label must contain the IGCC number, CBA and a date code spanning no more than a 6 month period, plus or minus one month and commencing with the beginning of each calendar year (effective for both beginning and ending of each period).

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- d. In lieu of the IGCC or ALI label, the Contractor may substitute his own label. This label shall contain all the information contained on the IGCC label, except that the (glass) manufacturer's name is substituted for the IGCC number. **NOTE:** The glass manufacturer's name shall be the same as that on the certification from the testing laboratory.
2. Sheet glass: Clear sheet glass; FS DD-G-451, Type II, Class 1, Quality q6 ("B" quality), double strength, except as otherwise indicated.
 3. Tempered glass: Sheet glass (FS DD-G-451c, DD-G-140b), which has been heat strengthened by manufacturer's standard process (after cutting to final size), to achieve a flexural strength of 4 times normal glass strength; clear (Class 1), 1/4 inch thick.
 4. Obscure glass: FS DD-G-451c. Class I, Quality q 8 translucent glass patterned one side (hammered).
 5. Wired glass: FS DD-G-451, Type III, Kind A (flat), Form 1 (wired and polished both faces), Mesh No.1 welded square 1/4" minimum thickness clear (Class 1). "Baroque" Mississippi Glass as manufactured by Hordis Brothers Inc. or approved equal by Architect/Engineer.
- B. Glazing Materials:
1. General: Provide exposed glazing materials to match color of adjacent materials, or unless another color is selected by Architect/Engineer, from manufacturer's standard colors. Provide hardness of materials as recommended by the manufacturer for the required application and condition of installation in each case. Provide only compounds which are known (proven) to be fully compatible with surfaces contracted.
- C. Glass Blocks:
1. Glass block units shall be made of clear colorless glass with pattern selected by Architect/Engineer.
 2. Installation of the glass blocks shall be done according manufacturer's specification with all recommended accessories, panel reinforcing and mortar Type S in accordance with ASTM C270. Mortar shall be 1 part Portland cement, 1/2" part lime, and sand equal to 2 1/4" to 3 times the amount of cementitious material. For exterior glass block panels, an integral type water-proffer should be added to the mortar mix.
 3. Glass blocks shall be product of Pittsburgh Corning or approved equal as determined by Architect/Engineer.

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8E.05 INSTALLATION AND WORKMANSHIP

- A. Watertight and airtight installation of each piece of glass is required. Each installation must withstand normal temperature changes, wind loading, impact loading (for operating sash and doors) without failure of any kind including loss of breakage of glass, failure of sealant or gaskets to remain watertight and airtight, deterioration of glazing materials and other defects in the work.

8E.06 SUBMITTALS

- A. **Manufacturer's Data, Glass:** Submit 2 copies of manufacturer's specifications and installation instructions for each type of glass required. Include test data substantiating that glass complies with specified requirements. Indicate that Glazier has received copy of handling and glazing instructions.

8E.07 GUARANTEES

- A. Guarantee all items of work furnished and installed under this Section for (1) one year, in addition to manufacturer's standard warranties. All guarantees to be from the date, when **Final Certificate of Occupancy** is issued from Department of Buildings.

END OF SECTION