

08800: GLASS AND GLAZING

INDUSTRY STANDARD

Comply with Glass Association of America “GANA Glazing Manual.”

GLASS MATERIALS

Annealed Float Glass: ASTM C1036, Type I, Class 1, Quality q3 or better.

Obtain annealed float glass units from one manufacturer using the same type of glass and other components for each type of unit indicated.

Heat-Strengthened and Tempered Float Glass: ASTM C1036, Type I float glass as specified above and conforming to requirements of ASTM C1048 and as specified.

Tempered glass shall meet ANSI Z97.1 test requirements.

Glass shall be tempered using the roller hearth method.

Heat-strengthened glass shall have surface compression levels between 3500 and 7000 psi.

Obtain heat-strengthened and tempered float glass units from one manufacturer using the same type of glass and other components for each type of unit indicated.

Insulating Glass: Certified under IGMA-approved program and meeting CBA Grade requirement when tested in accordance with ASTM E773 and ASTM E774.

Units shall be fabricated from specified float glass.

Provide tempered glass for both lights of glass where required by code.

Obtain insulating glass units from one manufacturer using the same type of glass and other components for each type of unit indicated.

Flat Wire Glass: ASTM C1036, Type II, Class 1, Form 1, Quality q8, 6.0 mm thick.

Mesh Design: Baroque or Georgian (square).

Obtain flat wire glass units from one manufacturer using the same type of glass and other components for each type of unit indicated.

Mirror Glass: ASTM C1036, Type I, Class 1, quality q2, 1/4 inch thick.

Provide silver coating, copper-protective coating, and 1-mil-thick mirror backing paint.

Comply with CS 27.

Spectrally Selective and Tinted Glass: These are acceptable glass Types and should be considered where required to control excessive heat gain and use is acceptable to Project Manager.

Obtain spectrally selective and tinted glass units from one manufacturer using the same type of glass and other components for each type of unit indicated.

Spandrel Glass: Subject to approval by Owner's Representative.

Reflective Glass: Not allowed for exterior windows.

Other glass Types such as obscure, laminated, decorative, and as may be required based on usage and are to be considered on an individual basis.

GLAZING MATERIALS

Sealants for Glazing:

Interior Locations, If Not Dry Glazed:

Typical: One-part, gun grade; Tremco "Mono," Pecora "60 Plus," or equal.

Exterior Locations: One-part, gun-grade silicone; GE "Silicone Construction Sealant Series SCS-1200," Dow-Corning "999 Building Sealant," or equal.

Glazing Blocks and Spacers: Closed-cell neoprene complying with ASTM C509, in black color.

Glazing Gaskets: Types and sizes as required, preformed, premolded corners; F.H. Maloney, D.S. Brown, or equal.

Full-Density EPDM: Conforming to NAAMM Standard SG-1.

Closed-Cell Neoprene: Capable of 24 percent to 40 percent compression.

PVC: Complying with ASTM D2287.

Standard products provided by aluminum framing, window, or entrance manufacturer, if at variance with the above, are acceptable.

Glazing Tape:

Typical: Butyl rubber type, black color; Pecora "Extru-Seal Tape G-66," Tremco "440 Tape," or equal.

Fire-Rated Glass: Closed-cell PVC or as otherwise approved by glass manufacturer for required fire rating.

Source Limitations for Glazing Accessories:

Obtain glazing accessories for one source for each product and installation method.

END OF 08800