



SECTION 08 4123
FIRE-PROTECTIVE STEEL FRAMED ENTRANCES &
STOREFRONTS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Interior protective framed glazing assembly.

1.02 REFERENCE STANDARDS

- A. ASTM E119 - Standard Test Methods for Fire Tests of Building Construction and Materials; 2016a.
- B. ASTM E1300 - Standard Practice for Determining Load Resistance of Glass in Buildings; 2016.
- C. INTERTEK (DIR) - SpecDirect; current edition.
- D. NFPA 80 - Standard for Fire Doors and Other Opening Protectives; 2016.
- E. UL (DIR) - Online Certifications Directory; current listings at database.ul.com.
- F. UL 263 - Standard for Fire Tests of Building Construction and Materials; Current Edition, Including All Revisions.

PART 2 PRODUCTS

2.01 INTERIOR PROTECTIVE FRAMED GLAZING ASSEMBLIES

- A. Basis of Design: GGI - General Glass International; PyroFrames with PyroDoors: www.generalglass.com/#sle.
- B. Provide factory fabricated, factory finished framing members with glazing and related flashings, anchorage and attachment devices.
- C. Structural Performance: Design to support dead loads and horizontal live loads equivalent to the following; coordinate connection to main structural members.
 - 1. Design Live Loads: Comply with requirements of the following:
 - a. Positive Design Live Load: ____ lbf/sq ft (____ Pa).
 - b. Negative Design Live Load: ____ lbf/sq ft (____ Pa).
 - 2. Comply with ASTM E1300 for design load resistance of glass type, thickness, dimensions, and maximum lateral deflection of supported glass.
 - 3. Provide glass edge support system sufficiently stiff to limit the lateral deflection of supported glass edges to less than 1/175 of their lengths or 3/4 inch (19 mm), whichever is less, under specified design load.
- D. Fire Performance: Provide hourly fire-resistance-rating as indicated; tested as an assembly including glazing in compliance with ASTM E119 or UL 263 and requirements of local authorities having jurisdiction.
 - 1. Acceptable evidence of compliance includes listing by UL (DIR), INTERTEK (DIR), or testing agency acceptable to authorities having jurisdiction.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify dimensions, tolerances, and method of attachment with other work.
- B. Verify that wall openings and adjoining air and vapor seal materials are ready to receive work of this section.
- C. Verify that anchorage devices have been properly installed and located.

3.02 INSTALLATION

- A. Install wall system in accordance with limitations of fire rating and with manufacturer's instructions.

- B. Install framed glazing assemblies in accordance with NFPA 80 and requirements of local authorities having jurisdiction.
- C. Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- D. Provide alignment attachments and shims to permanently fasten system to building structure.
- E. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
- F. Provide thermal isolation where components penetrate or disrupt building insulation.
- G. Install sill flashings. Turn up ends and edges; seal to adjacent work to form water tight dam.
- H. Touch-up minor damage to factory applied finish; replace components that cannot be satisfactorily repaired.

3.03 CLEANING

- A. Remove protective material from pre-finished surfaces.
- B. Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.

3.04 PROTECTION

- A. Protect installed products from damage until Date of Substantial Completion.

END OF SECTION