



ZHLA.35 Windstorm-rated Assemblies

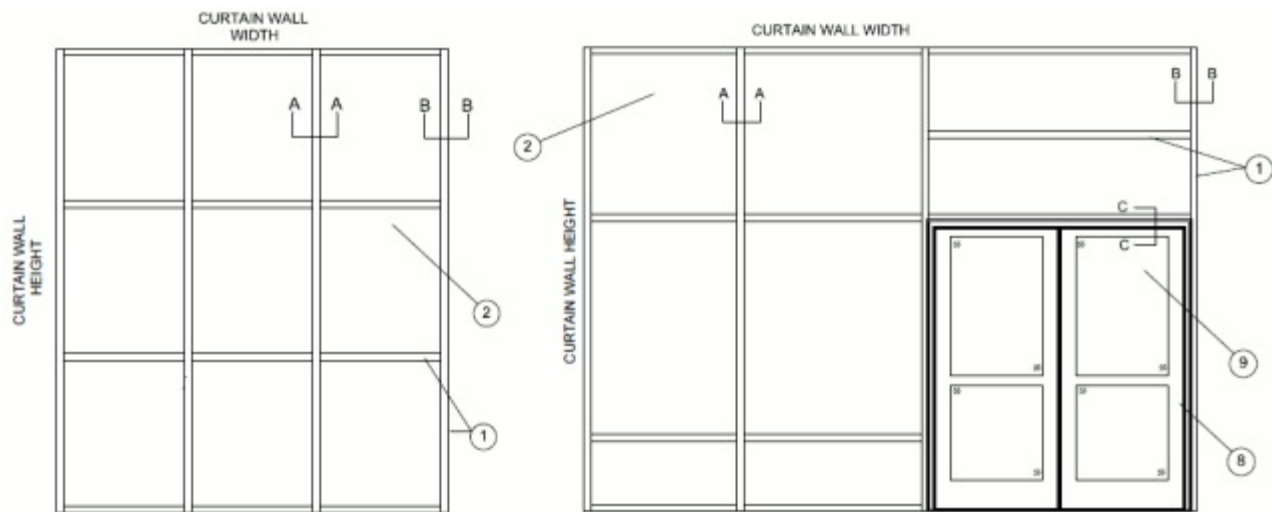
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Windstorm-rated Assemblies

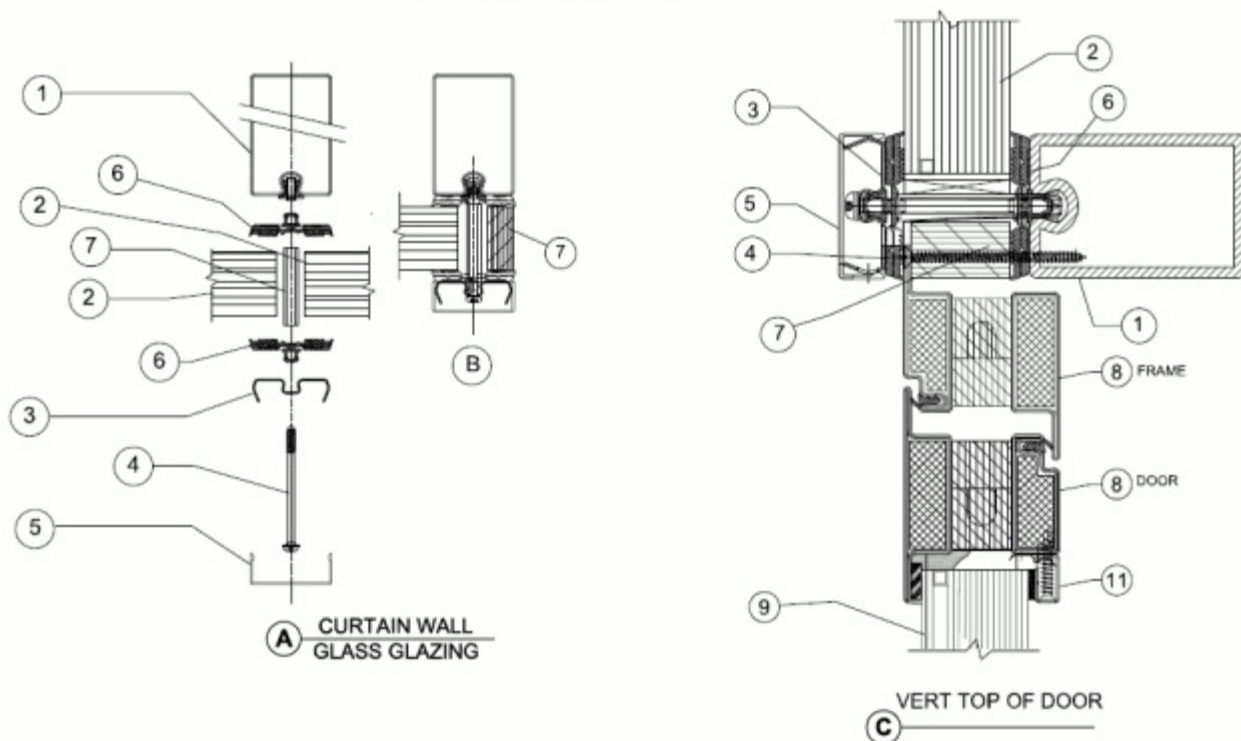
[See General Information for Windstorm-rated Assemblies](#)

Assembly No. 35

March 21, 2014



TYPICAL CONFIGURATIONS



Standard	Rating
ASTM E1886, ASTM E1996, ASTM E330, TAS 201, TAS 202, TAS 203	Design Pressure +/- 65 psf Large Missile Impact, 350 ft.lbs

1. **Framing Members for Windstorm Rated Assembly*** — Nom 2-3/8 in. (60 mm) wide by nom 3-9/16 in. (90 mm) depth (horizontal members) or 5-7/8 in. (140 mm) depth (vertical members) steel framing members with lengths cut according to wall configuration and glazing size. Secured to adjoining structure with 1/4 in. (6 mm) steel anchor plates with 3/4 in. (6 mm) steel shear lug tube (not shown) which slip fit into the framing at the top and bottom of each vertical member. Installation of frames and anchor plates (supplied with framing members) to be made in accordance with the manufacturer installation instructions for the curtain wall. Maximum area of curtain wall not to exceed 224.69 ft² (21 m²) with max dimension of 17.25 ft (526 cm). Assembly contains multiple glazed openings per Item 2.

VETROTECH SAINT-GOBAIN NORTH AMERICA INC ([View Classification](#)) — VDS (-HI) Curtain Wall

2. **Glazing Material for Windstorm Rated Assembly*** — Min 1-3/4 in. (44 mm), 2-1/8 in. (54 mm) or 2-3/16 in. (56 mm) thickness laminated glass supplied in various sizes. Max exposed area per panel not to exceed 30 ft² (2.8 m²) with max exposed dimension of 72 in. (183 cm), or 16 ft² (1.5 m²) with max dimension of 88-7/16 in. (225 cm). Max total exposed area of glass in curtain wall not to exceed 143.6 ft² (13.34 m²). Glazing supplied with 2.25 mm thick self-adhesive intumescent tape (not shown) which is used to line the perimeter of the glass; width of tape to be same width as the glazing material. Glass is set on two setting blocks with the framing members at bottom of each opening.

VETROTECH SAINT-GOBAIN NORTH AMERICA INC ([View Classification](#)) — Contraflam 60 HI (IGU), Contraflam 90 HI (IGU) or Contraflam 120 HI (IGU)

3. **Stainless Steel Pressure Plates** — Supplied with the steel framing members. Nom 2-1/4 in. (57 mm) wide with a nom depth of 11/16 in. (17 mm) with lengths cut according to glazing size. Secured to the framing members with steel pan head locking screws (Item 4).

4. **Pressure Plate Screws** — Supplied with the steel framing members. Nom 1/8 in. (3 mm) diameter steel pan head locking screws with a minimum length of 3.35 in. (85 mm) for Contraflam 60 glass or 3.75 in. (95 mm) for Contraflam 90 and 120 glass. Screws to be located max 6 in. (152 mm) from each end of the steel framing member and max 6 in. (152 mm) OC.

5. **Facing Profiles** — Supplied with the steel framing members. Nom 2-3/8 in. (60 mm) wide with a minimum depth of 15/16 in. (23 mm) with lengths cut according to glazing size. The aluminum facing profiles (cover caps) snap over the pressure plates (Item 3) with no mechanical fastening required.

6. **EPDM Gaskets** — Supplied with the steel framing members. Nom 2-5/16 in. (60 mm) wide by nom 5/16 in. (8 mm) thick EPDM weather stripping applied to the steel framing members and the pressure plates to cushion and seal the glazing material when installed.

7. **Spacers** — Hardwood spacer blocks nom 3/4 in. (19 mm) by thickness of glass with or without stainless or galvanized steel cladding, and plastic screw spacer sleeves nom 7/16 in. (11 mm) diam by thickness of glass, supplied with the steel framing members.

8. **Swinging Door and Frame for Windstorm Rated Assembly*** — (Optional) - Curtain wall may include one door and frame assembly with max door opening size 84 in. (2134 mm) wide for pair or 42 in. (1067 mm) wide for single door by 96 in. (2438 mm) height. Door has integral openings for glazing (see Item 9). Frame is three sided and supplied with the door. Door, glazing and frame assembly to be installed per manufacturer installation instructions.

VETROTECH SAINT-GOBAIN NORTH AMERICA INC ([View Classification](#)) — VDS (-HI) Door System for Use in VDS (-HI) Curtain Wall

9. **Glazing Material for Windstorm Rated Assembly*** — Used with Item 8. Supplied with door for field installation in accordance with manufacturer installation instructions. Min 1-3/4 in. (44 mm), 2-1/8 in. (54 mm) or 2-3/16 in. (56 mm) thickness laminated glass supplied in various sizes. Max exposed glass area per leaf not to exceed 17.1 ft² (1.59 m²), max exposed glass area per opening not to exceed 10.2 ft² (0.95 m²) with max exposed dimensions of 31-5/16 in. (79.6 cm) wide and 46-7/8 in. (119.1 cm) high. Glazing material to be installed on setting blocks (hardwood, calcium silicate or neoprene plastic) at the bottom and side of each opening. Glazing supplied with 2.25 mm thick self-adhesive intumescent tape (not shown) which is used to line the perimeter of the glass; width of tape to be same width as the glazing material. Glass set on setting blocks and located against closed cell foam glazing tape (both faces of door) and a full back bedding of Dow Corning 995 sealant.

VETROTECH SAINT-GOBAIN NORTH AMERICA INC ([View Classification](#)) — Contraflam 60 HI (IGU) or Contraflam 90 HI (IGU)

10. **Securing Plates** — Used with Items 8 and 9. Nom 2-1/2 by 1 in. (64 by 25 mm) by 16 ga steel plates (not shown) supplied with the door. Two securing plates are placed at quarter points on each side, top and bottom of glazed opening on push side of door to retain the glass. Plate is secured to door frame with #8 by 1/2 in. (13 mm) self drill tech screw (SRT) per manufacturer installation instructions.

11. **Glazing Beads** — Used with Items 8 and 9. Min 16 ga galvanized steel by 13/16 in. (20 mm) high beads of various sizes, cut to fit tightly along the perimeter of one face (push side of door) of glazing material. Secured to framing member with two #8 by 1/2 in. (13 mm) self drill tech screws (SRT) located max 6 in. (152 mm) from each corner.

12. **Wall** — Not Shown. Adjoining wood stud, steel stud or masonry wall or steel structure.

*Bearing the Certification Mark of UL

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