



## **BXUV.U542 Fire Resistance Ratings - ANSI/UL 263**

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### **Design/System/Construction/Assembly Usage Disclaimer**

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
  - Authorities Having Jurisdiction should be consulted before construction.
  - Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
  - When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
  - Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.
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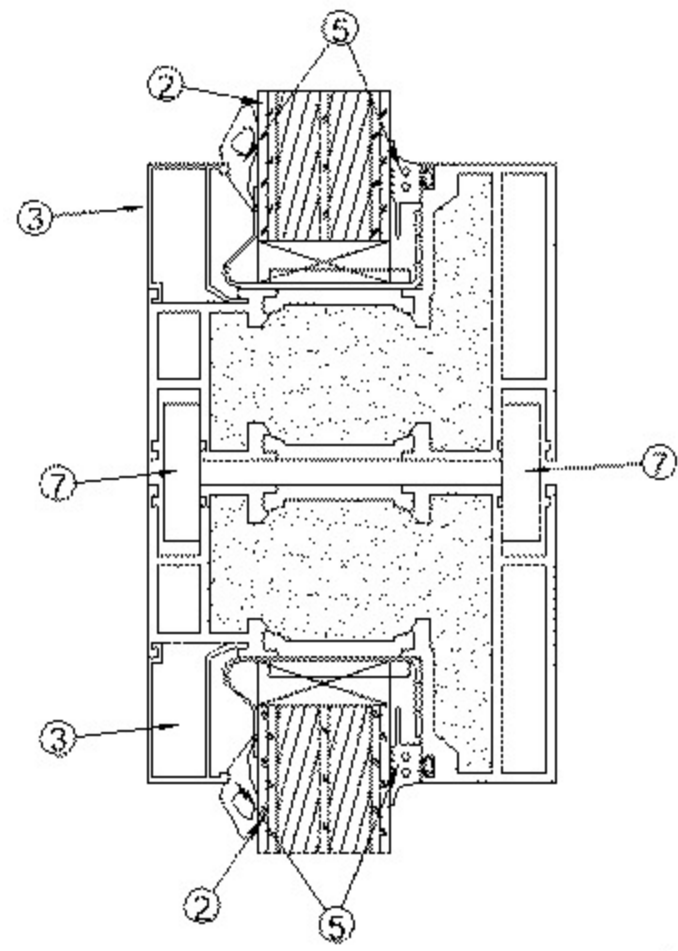
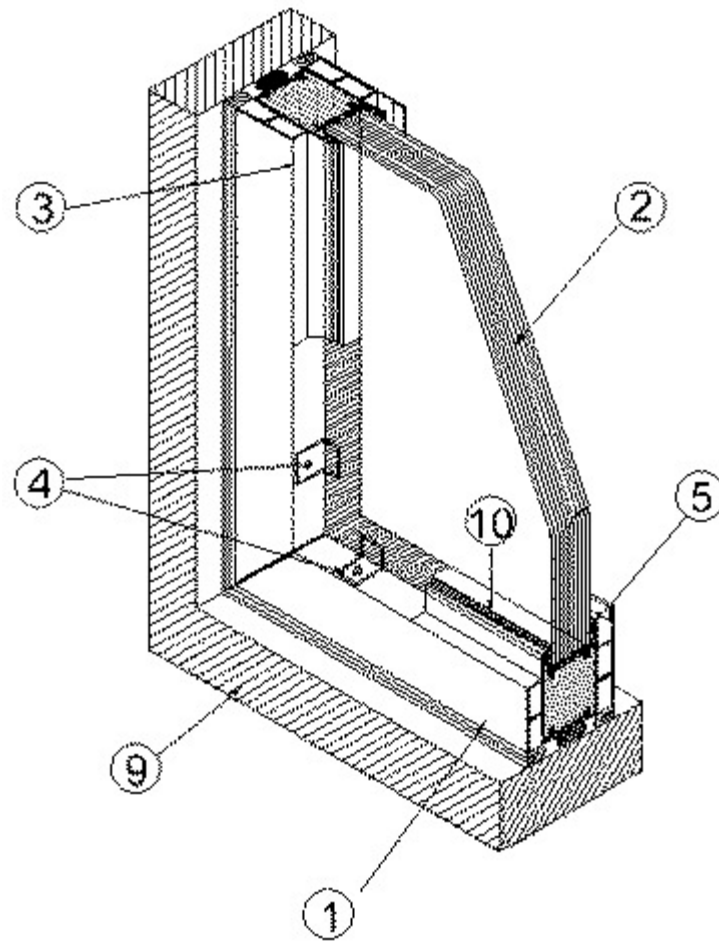
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**Design No. U542**

May 11, 2010

**Non-Bearing Wall Rating — 1**



1. **Composite Framing Members\*** — Nom 3.35 in. (85 mm) wide with lengths cut according to glazing opening size. Secured to steel studs with zinc coated TX-30, nominal 2-1/2 in. long self drilling, screws spaced nominally 17 in. OC and 4-1/2 in. from either end.

**ALUFLAM NORTH AMERICA L L C** — Aluflam Framing Material

2. **Fire Resistant Glazing Material\*** — Nom. 1-1/16 in (27 mm) minimum thickness laminated glass supplied in various sizes. Max size not to exceed 30.9 sq ft with max exposed light dimensions of 94-13/16 in. When Swissflam Structure 60-N2 with a 31 mm nominal thickness is used, the exposed height of glass is not to exceed 94-5/8 in. but the overall width can be greater than 94-13/16 in. due to the joint feature incorporated into the Swissflam Structure product. When Contraflam Structure 60 with a 31 mm nominal thickness is used, the maximum exposed area per panel is not to exceed 47.9 ft<sup>2</sup> and the exposed height of the glass is not to exceed 118-1/16 in. The overall width for the glazing can be greater than 94-13/16 in. due to the joint incorporated into the Contraflam Structure 60. Swissflam or Contraflam Structure can be manufactured with a mitered joint to allow up to a 19 Degree angle to be formed between the glazing unit and the vertical plane to create a corner or bowed assembly.

**VETROTECH SAINT-GOBAIN** — Swissflam 60-N2, Contraflam 60-N2, Swissflam Structure 60-N2, Contraflam Structure 60.

3. **Glazing Beads** — Supplied with the framing members. Nominal 17 mm wide aluminum beads of various sizes, cut to fit tightly along the perimeter of both sides of glazing material. Beads snap into the extrusion that is part of the framing member (Item 1).

4. **Retaining Clips** — 1/32 in. thick stainless steel retaining clips, 3/4 in. wide by 2 in. long with a 7/16 in. vertical leg were provided with the frame. Clips are supplied with the framing members (Item 1) and are attached to the framing member with 1/8 in. diameter by 5/8 in. long machine screws. The clips are to be located at 12 in. OC along every framing member.

5. **Glazing Seals** — Nominal 1/4 in. deep PVC seals applied to the glazing bead and the fixed stop of the frame on either side of the glazing material (Item 2). Seals are cut to length to match the framing materials and are supplied with the framing members.

6. **Aperture Lining** — (not shown) - 2.25 mm thick by 30 mm wide intumescent tape supplied with the framing material. Self-adhesive material is used to line the inside of the framed openings to form the bottom of the glazed pocket. Material should be the same width as the glazing material (Item 2).

7. **Spline Assembly** — Multiple smaller frames can be combined to create larger assemblies when the framing members (Item 1) include a groove in the profile for the acceptance of a spline on both sides of the extrusion. The aluminum splines are to be 1 in. wide by 5/32 in. thick and cut to length to match the width or height of the assembly. The splines are to be supplied with the framing members and include a PVC jacket for installation.

8. **Screws** — (Not Shown) Frames mulled together with the splines (Item 7) are then to be mechanically fastened to each other with zinc coated TX-30 steel screws located nom. 4-1/2 in. from either end and every 17-1/2 in. OC maximum through the center of each framing member.

9. **Wall Assembly** — The 1 or 2 hr fire rated wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400, or U900-Series Wall or Partition Designs in the UL Fire Resistance Directory.

10. **Silicone Sealant** — A bead of silicone sealant is applied between glazing bead (Item 3) and glazing material (Item 2) joint.

11. **Shims** — (Not Shown)—Nom. 3/4 in. wide by 1/8 in. thick hard fiber or hardwood or calcium silicate shims placed on bottom of glazing opening formed by framing member (Item 1) to set glazing material (Item 2).

\*Bearing the UL Classification Mark

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