

Design No. U542
BXUV.U542
Fire Resistance Ratings - ANSI/UL 263

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- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified 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.
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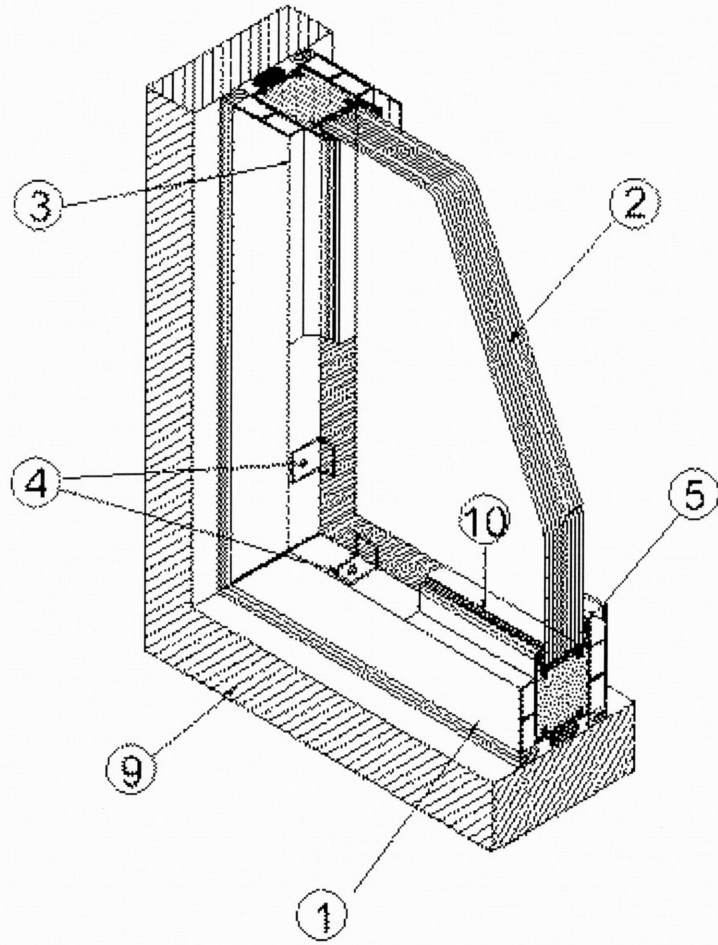
Fire Resistance Ratings - ANSI/UL 263

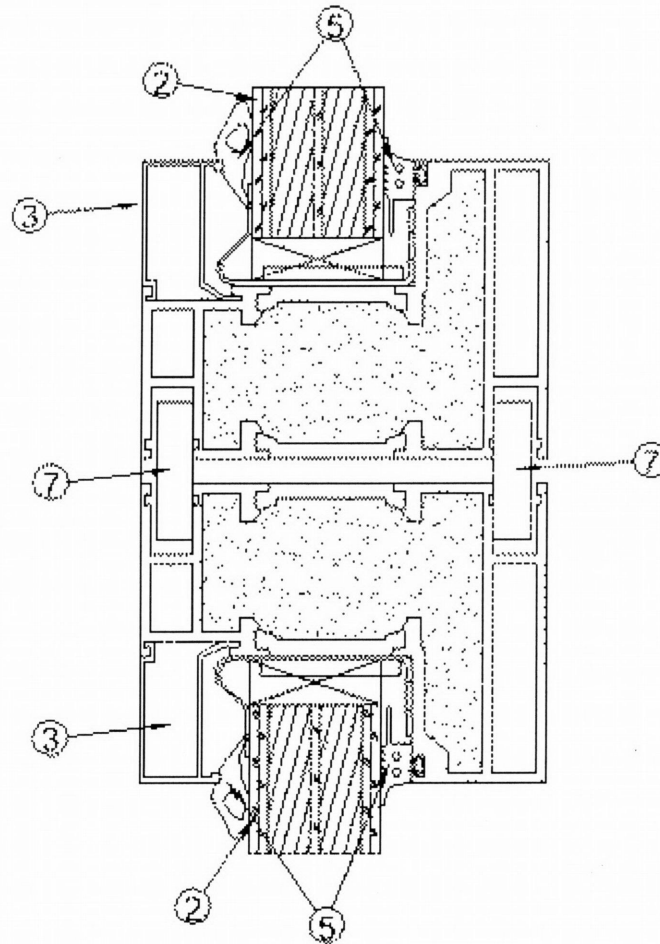
[See General Information for Fire Resistance Ratings - ANSI/UL 263](#)

Design No. U542

December 28, 2012

Non-Bearing Wall Rating — 1 Hr





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 — Alufam 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 52.6 ft² and the exposed height of the glass is not to exceed 138-1/2 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 NORTH AMERICA INC — Swissflam 60-N2, Contraflam 60-N2, Swissflam Structure 60-N2, Contraflam Structure 60, Contraflam 60, Contraflam 60-3 IGU Blind.

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 muller 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

Last Updated on 2012-12-28

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Fire-rated Aluminum Vision Wall System

ALUFLAM® has pioneered the innovative solution to what was long considered an impossible dream (and a barrier to truly beautiful commercial architectural design), the development of rugged, versatile aluminum framing technology for fire-rated commercial vision wall applications.

The ALUFLAM system has been tested and approved and is available to the architectural and construction communities worldwide.



Features:

- The clean, sharp lines of narrow stile aluminum framing
- Large, wire-free glass areas
- Barrier to radiant heat through insulated frame and glazing
- Increased design freedom
- Tested and approved to national and international fire codes
- Multitude of finish options
- Simple to install
- High impact resistance
- No corrosion
- Energy efficient
- Reduced noise transmission
- Available in Single or multi-lite designs
- Can be integrated with Aluflam's fire-rated doors
- Interior and exterior installation
- Butt glazed wall
- Optional butt-glazed silicone joints to eliminate intermediate vertical mullions
- 60 min. rating

Framing:

The revolutionary all-aluminum framing system is based on high quality extruded profiles, filled with a proprietary insulating compound.

Glazing:

Aluflam incorporates Vetrotech Saint Gobain clear laminated fire glazing. Glazing conforms to CPSC 16CFR1201 (CAT I & II) standards for impact while providing excellent clarity and sound reduction. The Aluflam system is approved with both Swissflam and Contraflam glazing which feature superior heat barrier properties.

Finishes:

Aluflam can offer a number of factory prefinished coatings for its fire-rated aluminum products.

These include:

- Anodizing
- Powder coating
- Architectural paint finishes

Listings:

These frame assemblies are Classified by Underwriters Laboratories Inc. to ANSI/UL 263 and UBC 7-4 (1997) standards. UL File Number R21588. City of New York approved - MEA 247-08-M

Documentation:

Go to www.aluflam-usa.com/specs/ for:

- CAD drawings
- CSI specifications
- Installation instructions

aluflam
architectural fire-rated solutions

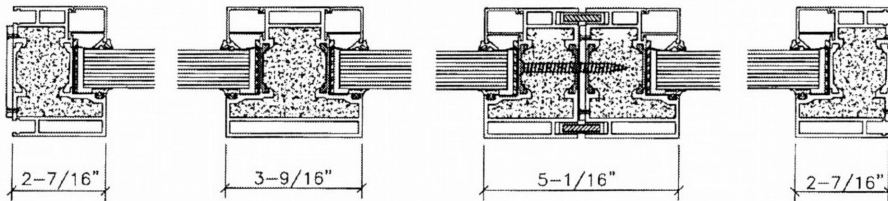
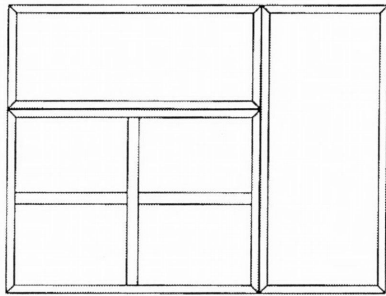
Fire-rated Aluminum Vision Wall System

Description

| | |
|--|---------|
| Designation | VW-EI60 |
| Maximum fire rating | 60 min. |
| Maximum individual exposed glass area (sq.in) | 4425 |
| Maximum exposed width of individual glass (in.) | 95 |
| Maximum exposed height of individual glass (in.) | 95 |
| Frame width (in.) | 2-1/2 |
| Frame depth (in.) | 3-3/8 |
| Glass weight for 60 min. (lbs./sq.ft.) | 10.6 |
| Frame weight (lbs/ft.) | 3.3 |
| UL design number | U542 |

Looking for custom solutions:
Aluflam can provide a variety
of custom solutions- both on
glass and framing.
Contact us for details!

Framing



See our website for our full range of design options : www.aluflam-usa.com

Contact: Aluflam North America - A complete list of approved Aluflam
representatives is available online at www.aluflam-usa.com

E-mail: info@aluflam-usa.com



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