

BXUV.U541 - Fire-resistance Ratings - ANSI/UL 263

**Drywall Solutions**

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 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.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

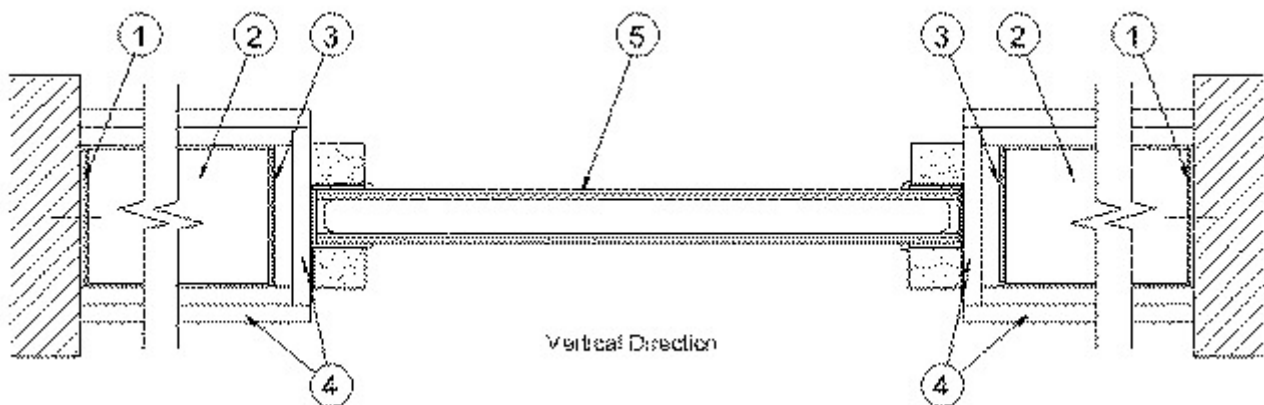
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

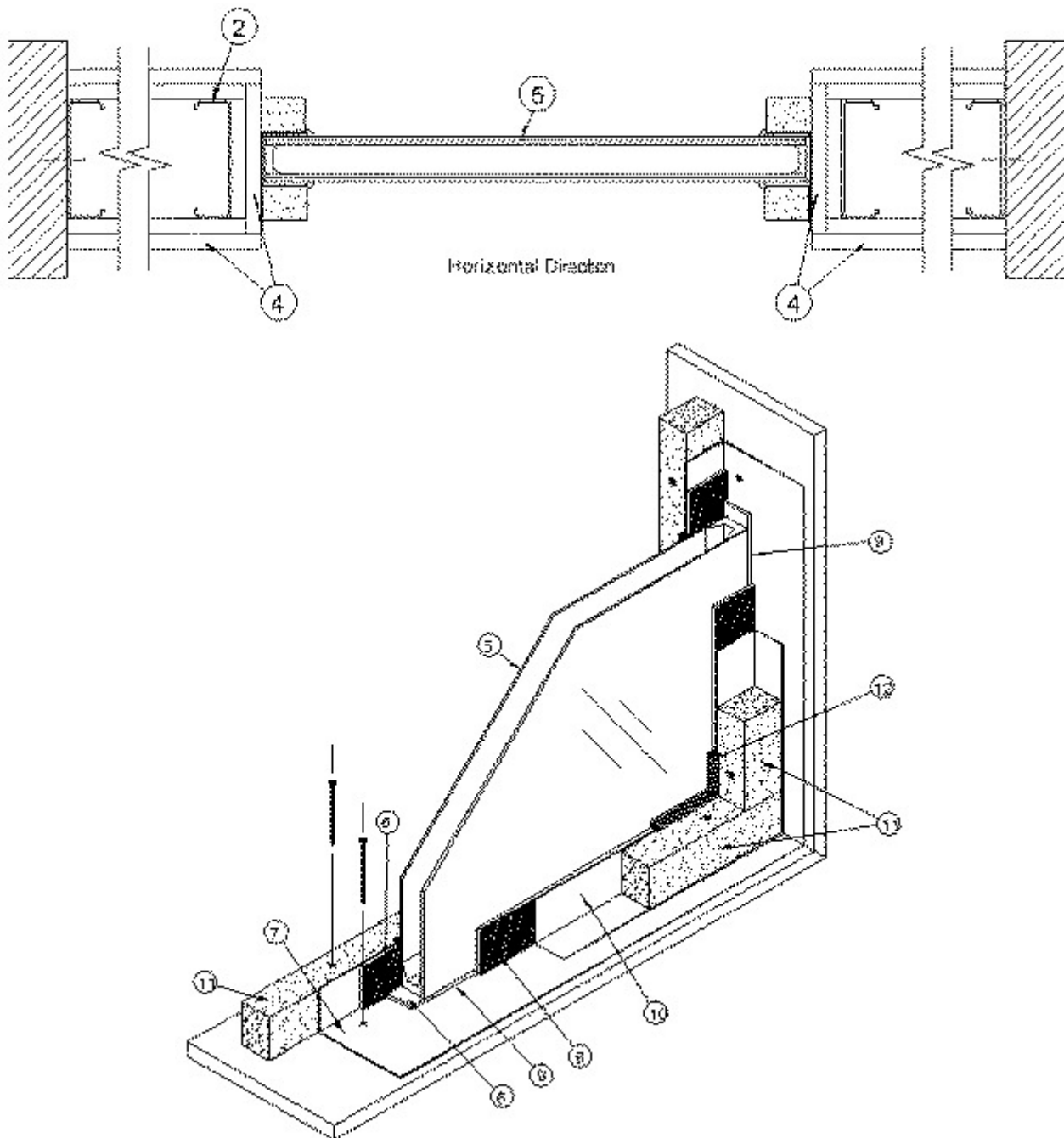
Design No. U541

March 12, 2020

Nonbearing Wall Rating — 1 HR.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





1. **Floor And Ceiling Runners** — Channel-shaped runners, 4 in. wide by 1-1/4 in. deep, fabricated from No. 20 MSG galv steel. Attached to floor and ceiling with fasteners spaced 24 in. O.C.
2. **Steel Studs (Vertical Framing)** — Channel-shaped, 4 in. wide by 1-1/4 in. deep with 5/16 in. folded back return flanges, fabricated from No. 20 MSG galv steel. Studs secured to runners with 1/2 in. long, Phillips panhead, self-drilling/tapping steel screws through each leg of stud. Studs spaced 24 in. O.C. Short studs or "cripples" are used to support the horizontal framing. These are also spaced 24 in. O.C. with additional cripples employed at the ends of the horizontal framing, back to back with the full length steel stud. These end cripples are secured to the studs with two 1/2 in. long Phillips, bugle-head self-drilling/tapping steel screws, spaced 2 in. O.C. vertically.
3. **Steel Runners (Horizontal Framing)** — Channel-shaped, 4 in. wide by 1-1/4 in. deep, fabricated from No. 20 MSG galv steel. Secured to vertical framing (cripples) with 1/2 in. long, Phillips panhead, self-drilling/tapping steel screws through each leg of runner.
4. **Gypsum Board*** — Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515. Two layers min, 1/2 in. thick min, or single layer 5/8 in. thick, min., 4 ft wide. Inner layer or single layer attached to studs and runners with 1 in. long, Phillips bugle-head self-drilling/tapping steel screws, 12 in. O.C. vertically and horizontally. Additional

screws located 3/8 in. from wallboard edges. Outer layer attached to studs and runners with 1-5/8 in. long, Phillips bugle-head, self-drilling/tapping steel screws, 12 in. O.C. vertically and horizontally. Additional screws located 3/8 in. from wallboard edges. Joints of outer layer staggered from those of inner layer 6 in.

CABOT MANUFACTURING ULC ([View Classification](#)) — CKNX.R25370

AMERICAN GYPSUM CO ([View Classification](#)) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO ([View Classification](#)) — CKNX.R19374

CERTAINTED GYPSUM INC ([View Classification](#)) — CKNX.R3660

CGC INC ([View Classification](#)) — CKNX.R19751

GEORGIA-PACIFIC GYPSUM L L C ([View Classification](#)) — CKNX.R2717

CERTAINTED GYPSUM INC ([View Classification](#)) — CKNX.R18482

LOADMASTER SYSTEMS INC ([View Classification](#)) — CKNX.R11809

NATIONAL GYPSUM CO ([View Classification](#)) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM ([View Classification](#)) — CKNX.R7094

PANEL REY S A ([View Classification](#)) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD ([View Classification](#)) — CKNX.R19262

GEORGIA-PACIFIC GYPSUM L L C ([View Classification](#)) — CKNX.R6937

THAI GYPSUM PRODUCTS PCL ([View Classification](#)) — CKNX.R27517

UNITED STATES GYPSUM CO ([View Classification](#)) — CKNX.R1319

USG MEXICO S A DE C V ([View Classification](#)) — CKNX.R16089

5. Fire Resistant Glazing Materials* — Nominal 1 in. thick panels, supplied in various sizes. Max size not to exceed 28 ft² with max dimension of 7 ft. Total aggregate area not to exceed 72 ft² /100 ft² of wall area. Installed in accordance with directions below with no less than 8 in. separation between adjacent glazing materials.

Material may incorporate optional 1/4 or 1/2 in. sheet of polycarbonate or glass (not shown) laminated to one or both surfaces of the fire resistant glazing material or attached with an air space between the polycarbonate or glass and the fire resistant material. Glazing provided with an air space may be used for exterior exposure, provided the additional sheet is mounted on the exterior exposed side of the assembly.

SAFTIFIRST — Superlite II-XL (60)

6. Glazing Member (Ceramic Fiber Tape) — Nom 1/8 in. thick fiber tape, supplied in rolls, with a self-adhering backing. Nom density of 12.5 lb/ft³. Applied to legs of glazing stops in contact with the glazing material. Face of leg to be entirely

covered with tape.

7. Glazing Member (Fixed Glazing Stops) — Steel angles 1.57 in. (40 mm) by 3.31 in. (84 mm), to be used with Type 60-18/18 glazing material, and 1.57 by 2.95 in. (40 by 75 mm), to be used with Type 60-28 glazing material. Fabricated from No. 20 MSG galv steel. The angles are provided with a 45 deg mitre at each end. Fastened to steel studs and horizontal framing, through wide leg of angle and wallboard, with 2 in. long Phillips bugle-head self-drilling/tapping steel screws spaced 12 in. O.C. Before installation, legs in contact with glazing material are to be prepared as described under Item 6 above.

8. Glazing Member (Setting Blocks) — Gypsum wallboard shims, nom 1-1/2 in. long, 3/16 in. thick. The length is determined by width of glazing material, which should be identical. Min. two blocks placed, without attachment, on sill only prior to placement of the glazing materials.

9. Glazing Member (Insulative Packing) — Mineral wool batts, nom 6.0 lb per cu ft. Stuffed to tightly fill all gaps between the glazing stops and glazing materials, about entire perimeter of glazing material.

10. Glazing Member (Variable Glazing Stop) — Steel angles, 1.57 in. (40 mm) by 1.18 in. (30 mm), fabricated from No. 20 MSG galv steel. The angles are provided with a 45 deg mitre at each end. Placed adjacent to glazing material and fastened to studs and horizontal framing, simultaneously with insulation blocks (Item 11), with 3 in. long Phillips bugle-head self-drilling/tapping steel screws spaced 12 in. O.C.

11. Glazing Member (Insulation Blocks) — Calcium silicate boards, cut into 1-1/2 by 1-1/8 in. strips. Length varies. Nom density is 40 lb per cu ft. Placed adjacent to glazing stops on 1- 1/8 in. side. Fastened to studs and horizontal framing with 3 in. long Phillips bugle-head self-drilling/tapping steel screws 12 in. O.C.

12. Glazing Member (Sealant) — Silicone rubber sealant, cartridge type. A 1/4 in. bead applied at all glazing material/insulation block joints.

13. Joint Tape And Compound (Not Shown) — Dry or premixed joint compound, applied in two coats over joints and screw heads. Perforated paper tape, 2 in. wide, embedded in first layer of compound over joints.

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Last Updated on 2020-03-12

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