



Design No. V476

BXUV.V476

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

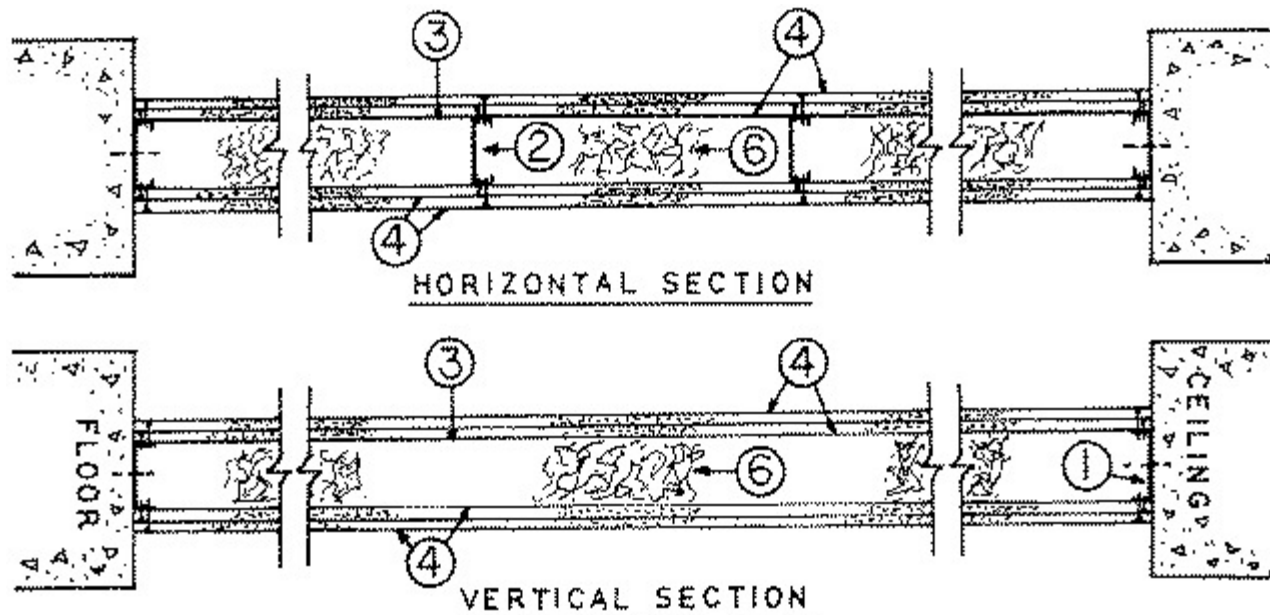
Fire-resistance Ratings - ANSI/UL 263

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

Design No. V476

February 19, 2013

Nonbearing Wall Rating — 1, 3 or 4 HR. (See Items 1, 2, and 4)



1. **Floor and Ceiling Runners** — Channel shaped 1/2 in. deep by min 3-5/8 in. wide, No. 25 gauge painted or galvanized steel. Secured with 3/4 in. long concrete fasteners spaced 18 in. OC. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide studs.

1A. **Framing Members* - Floor and Ceiling Runner** — Not shown - In lieu of Item 1 — For use with Item 2A, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 16 in. OC max. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide studs.

CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track

PHILLIPS MFG CO L L C — Viper20™ Track

1B. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 1 - For use with Item 2B, channel shaped, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide studs.

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA BUILDING SUPPLIES — ProTRAK

RAM SALES L L C — Ram ProTRAK

SOUTHEASTERN STUD & COMPONENTS INC — ProTRAK

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProTRAK

1C. Framing Members* - Floor and Ceiling Runner — Not shown - In lieu of Item 1 — For use with Item 2C, proprietary channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.020 in. thick galv steel, attached to floor and ceiling with fasteners spaced 16 in. OC max. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide studs.

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1D. Framing Members*— Floor and Ceiling Runners — (Not shown) — As an alternate to Item 1 - For use with Item 2D, channel shaped, min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide studs.

TELLING INDUSTRIES L L C — TRUE-TRACK™

2. Steel Studs — Channel shaped, min 3-5/8 in. wide with 1-1/4 in. legs, with 1/4 in. folded back return flange legs, galvanized steel, spaced not more than 16 in. OC. Stud length 3/8 in. less than assembly height. Min No. 25 MSG for the 1 and 3 hour rating. Min No. 18 MSG for the 4 hour rating. For the 1 hour rating, width may be reduced to 2-1/2 in.

2A. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — For use with Item 1A, proprietary channel shaped steel studs, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. less in length than assembly height. Spaced 16 in. OC max. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide track.

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2B. Framing Members*— Steel Studs — As an alternate to Item 2 - For use with Item 1B, channel shaped studs, min 3-5/8 in. wide, spaced a max of 16 in. OC. Studs to be cut 3/8 in. less than assembly height. Stud length 3/8 in. less than assembly height. Fabricated from min 0.018 in. thick galv steel for the 1 and 3 hour rating. Fabricated from min 0.045 in. thick galv steel for the 4 hour rating. For the 1 hour rating, width may be reduced to 2-1/2 in.

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA BUILDING SUPPLIES — ProSTUD

RAM SALES L L C — Ram ProSTUD

SOUTHEASTERN STUD & COMPONENTS INC — ProSTUD

STEEL STRUCTURAL SYSTEMS L L C — Tri-S ProSTUD

2C. Framing Members* - Steel Studs — Not shown - In lieu of Item 2 — For use with Item 1C, proprietary channel shaped steel studs, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.020 in. thick galv steel. Studs cut 3/8 in. less in length than assembly height. Spaced 16 in. OC max. For the 1 hour rating, width may be reduced to 2-1/2 in. to accommodate the 2-1/2 in. wide track.

TELLING INDUSTRIES L L C — Viper20™

2D. Framing Members*— Steel Studs — As an alternate to Item 2 - For use with Item 1D, channel shaped studs, min 3-5/8 in. wide, spaced a max of 16 in. OC. Studs to be cut 3/8 in. less than assembly height. Stud length 3/8 in. less than assembly height. Fabricated from min 0.018 in. thick galv steel for the 1 and 3 hour rating. Fabricated from min 0.045 in. thick galv steel for the 4 hour rating. For the 1 hour rating, width may be reduced to 2-1/2 in.

TELLING INDUSTRIES L L C — TRUE-STUD™

3. Metal Mesh — (Used with Item 5) — Diamond mesh, expanded steel, 3.4 lbs/sq yd, 27 by 96 in. sheets tied to iron bands (Item 7) and at laps with No. 18 SWG wire spaced 6 in. OC. As an alternate to the diamond mesh and iron bands, 3/8 in. rib, 3.4 lbs/sq yd expanded metal lath. Fastened to studs (ribbed side against studs) with No. 18 SWG wire spaced 6 in. OC. Fastened to runners with 1/2 in. long self-drilling, self-tapping steel screws spaced 6 in. OC. Laps 6 in. min and tied with No. 18 AWG wire spaced 6 in. OC min. The metal lath may be provided with a paper backing. When provided with the paper backing, the paper backed side of the lath shall face the metal studs.

4. Gypsum Board* — Nom 5/8 in. thick gypsum board with beveled, square or tapered edges.

For 1 Hr rating — One layer of gypsum board on each side applied vertically with joints centered over studs. Fastened to studs with 1 in. long, Type S, self-tapping, self-drilling, steel screws spaced 8 in. OC at the joints located 3/8 in. from the edges and 12 in. OC in the field. Joints to be staggered from the inner layer.

For 3 Hr rating — Two layers of gypsum board on each side. The inner layer to be applied vertically with joints centered over studs. Fastened to studs with 1 in. long, Type S, self-tapping, self-drilling, steel screws spaced 8 in. OC at the joints located 3/8 in. from the edges and 12 in. OC in the field. The outer layer also applied vertically to be fastened to the studs (through the inner layer) using 1-5/8 in. long, Type S, self-drilling, self-tapping, wallboard screws spaced 8 in. OC at the joints located 3/8 in. from the edges and 12 in. OC in the field. Fasteners to be spaced 8 in. OC at the runners. Joints to be staggered from the inner layer.

For 4 Hr rating — (Not Shown)— Three layers of gypsum board on each side. Two inner layers to be applied in the same manner as the 3 hr rating. The outer layer may be applied vertically or horizontally and fastened to each stud through the two previous layers with 2-1/4 in. long, Type S, self-drilling, self-tapping steel screws spaced 3/8 in. from the edges, 8 in. OC in the field. Joints in each gypsum board layer to be staggered from the joints in the adjacent layer and on opposite sides of studs.

Any UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. See **Gypsum Board** (CKNX) Category for names of Classified companies.

5. **Portland Cement Plaster** — (Not Shown) — May be used in lieu of the layers of gypsum board (Item 4) on metal lath side, 3/4 in. thick, applied in scratch coat consisting of 100 lb cement to 50 lb lime to 5-1/2 cu ft of sand and brown coat consisting of 100 lb cement to 50 lb lime to 6 cu ft of sand.

6. **Spray-Applied Fire Resistive Materials*** — Sprayed in stud cavities to completely fill interior of walls. Min avg and min ind densities of 13 and 11 pcf, respectively for Types PBS2 or FC or DF. For method of density determination, refer to Design Information Section.

CAFCO FRANCE — Type PBS2.

PROMAT US AKA MICROTHERM INC — Types FC and DF

7. **Joint Tape and Compound** — (Used with Item 4; Not Shown) — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads. Paper tape, 2 in. wide, embedded in first layer of compound over all joints.

8. **Building Paper** — (Not Shown-Optional) — May be used on the exterior face of the wall assembly, between the metal studs and the metal mesh or lath, as a backing for the application of the plaster (Item 5). The building paper may be a single-ply asphalt saturated sheathing, woven polyolefin sheathing or similar vapor barrier materials.

*Bearing the UL Classification Mark

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