Design No. V443

BXUV.V443

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 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.

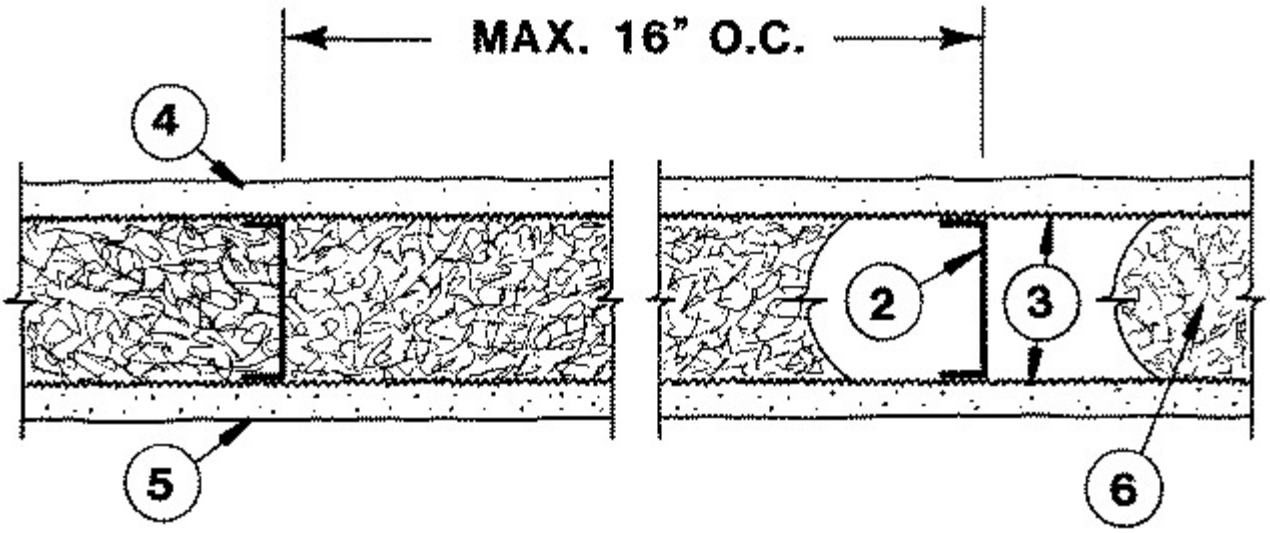
Fire-resistance Ratings - ANSI/UL 263

See General Information for Fire-resistance Ratings - ANSI/UL 263

Design No. V443

February 19, 2013

Nonbearing Wall Rating - 4 Hr.



HORIZONTAL SECTION

1. **Floor and Ceiling Runners —** (Not shown) - Channel shaped 1/2 in. deep by min 3-5/8 in. wide, No. 25 gauge painted steel. Secured with 3/4 in. long concrete fasteners spaced 18 in. O.C.

1A. **Framing Members* - Floor and Ceiling Runners —** 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 18 in. OC max.

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 - In lieu of Item 1 — For use with Item 2B, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 18 in. OC max.

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 Runners —** 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 18 in. OC max.

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1D. **Framing Members*— Floor and Ceiling Runners —** Not shown - In lieu of Item 1 — For use with Item 2D, channel shaped runners, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners spaced 18 in. OC max.

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2. **Metal Studs —** Channel shaped, min 3-5/8 in. wide with 1-1/4 in. legs, 1/4 in. folded back return flange in legs, No. 25 MSG min galv steel, spaced not more than 16 in. O.C. Stud length 3/8 in. less than assembly height.

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.

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2B. **Framing Members*— Steel Studs —** Not shown - In lieu of Item 2 — For use with Item 1B, channel shaped steel studs, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. less in length than assembly height. Spaced 16 in. OC max.

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.

TELLING INDUSTRIES L L C — Viper20™

2D. **Framing Members*— Steel Studs —** Not shown - In lieu of Item 2 — For use with Item 1D, channel shaped steel studs, 1-1/4 in. deep by min 3-5/8 in. wide fabricated from min 0.018 in. thick galv steel. Studs cut 3/8 in. less in length than assembly height. Spaced 16 in. OC max.

TELLING INDUSTRIES L L C — TRUE-STUD™

3. **Metal Lath —** Diamond mesh, expanded steel 3.4 lbs per sq yd, 27 by 96 in. sheets tied to iron bands and at laps 6 in. O.C. with No. 18 SWG wire.

4. **Plaster —** 3/4 in. thick, scratch coat of 2 cu ft of sand and brown coat of 3 cu ft of sand to 100 lbs of unfibered gypsum. Finish coat of three parts lime to two parts quick set gauging plaster by volume.

5. **Portland Cement Plaster —** 3/4 in. thick applied in scratch coat consisting of 100 lb cement to 50 lb lime 5-1/2 cu ft. of sand, coat consisting of 100 lb cement to 50 lb lime to 6cu ft of sand.

6. **Vermiculite Concrete —** 4 cu ft of **Vermiculite Aggregate*** to 94 lb Portland cement. Pumped into stud cavities to completely fill interior of walls

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6A. **Spray-Applied Fire Resistive Materials* —** In lieu of Item 6. Sprayed in stud cavities to completely fill interior of walls. For method of density determination, refer to Design Information Section. Applied by mixing with water and spraying. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/HY, Z-106/G. Min avg and min ind density of 40/36 pcf respectively for Z-146. Min avg and min ind density of 40/36 pcf respectively for Types Z-146, Z-146PC and Z-146T cementitious mixture. Min avg and min ind density of 50/45 pcf respectively for Types Z-156, Z-156T and Z-156PC.

W R GRACE & CO - CONN — Types MK-6/HY, MK-6HY Extended Set, MK-6s, RG, Z-106, Z-106/HY, Z-106/G, Z-146, Z-146T, Z146PC, Z-156, Z-156T and Z-156PC.

7. **Iron Bands —** (Not shown) - Hot rolled iron bands, 1/8 in. thick by 3/8 in. wide, with ribs 1 in. high by 1 in. wide installed horizontally and spaced 16 in. OC. Welded to metal studs and runners at each rib.

8. **Metal Lath —** (Not shown) - in lieu of Items 3 and 7, 3/8 in. rib, 3.4 lb/sq yd expanded metal lath. Fastened to studs, with ribbed side placed 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 SWG wire spaced 6 in. OC. min.

*Bearing the UL Classification Mark

Last Updated on 2013-02-19