UL Product iQ™

BXUV.W424

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. W424

June 04, 2020

Nonbearing Wall Ratings — 1/2 or 1 Hr (See Items 1, 1A, 2, 2A and 6)

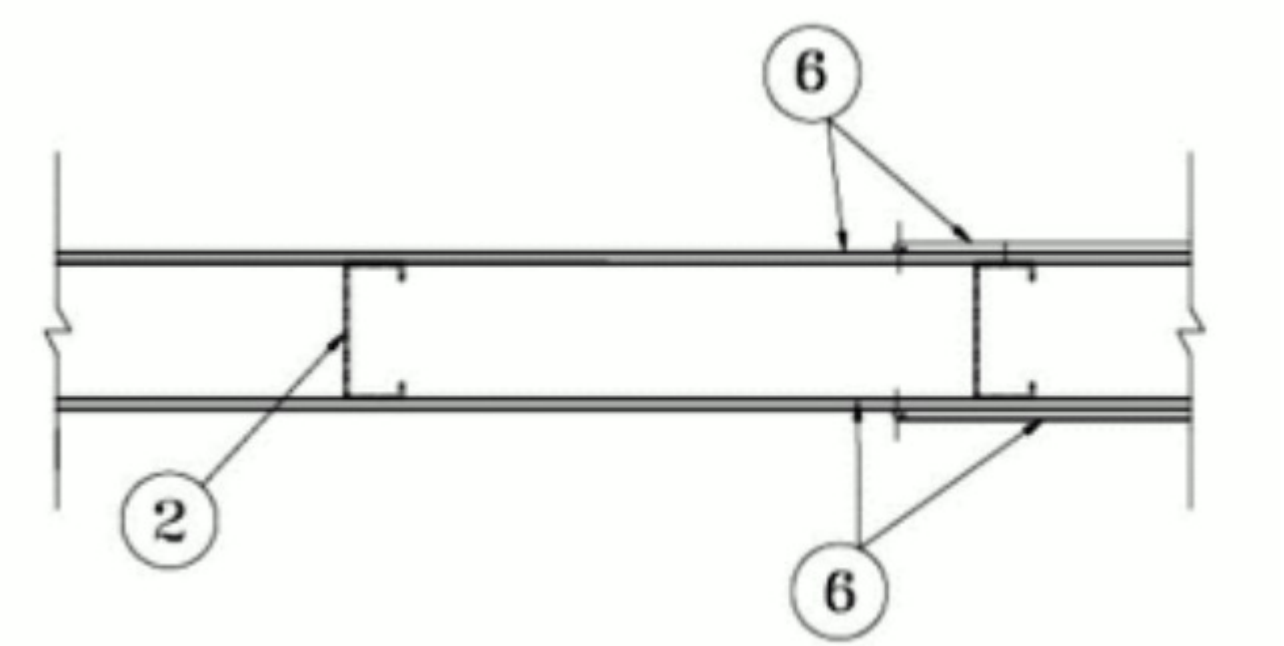
Bearing Wall Rating — 1/2 Hr (See Items 3 and 6)

Finish Rating — (See Item 3)

Loaded Per 2005 NDS Supplement, ASD Method, Wall Braced by Sheathing, 100% of Design Load Applied to Wall.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** 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 —** (Not Shown — For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1 — For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2A, channel shaped, min depth to accommodate stud size, attached to floor and ceiling with fasteners 24 in. OC. max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™ Track, Viper25™ Track

CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™ Track, Viper25™ Track

FUSION BUILDING PRODUCTS — Viper20™ Track, Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper20™ Track, Viper25™ Track

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

TELLING INDUSTRIES L L C — Viper20™ Track, Viper25™ Track

1B. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1 — For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2C, channel shaped, min depth to accommodate stud size, fabricated from min 0.018 in. thick galv steel, attached to floor and ceiling with fasteners 24 in. OC. max.
RESCUE METAL FRAMING, L L C — AlphaTRAK

1C. **Framing Members* — Floor and Ceiling Runners —** (Not Shown, As an alternate to Item 1 — For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2D, channel shaped, min depth to accommodate stud size, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), attached to floor and ceiling with fasteners 24 in. OC. max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X Track

2. **Steel Studs —** (For the 1/2 or 1 Hour Nonbearing Wall Ratings) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min. 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

2A. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2 — For the 1/2 or 1 Hour Nonbearing Wall Ratings) — Channel shaped studs, min. 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper20™, Viper25™

CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper20™, Viper25™

FUSION BUILDING PRODUCTS — Viper20™, Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper20™, Viper25™

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

TELLING INDUSTRIES L L C — Viper20™, Viper25™

2B. **Framing Members* — Steel Studs —** (For the 1/2 or 1 Hour Nonbearing Wall Ratings). As an alternate to Item 2 — For use with Item 1A (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion-protected steel, 1-1/4 in. wide by 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — StudRite™

2C. **Steel Studs —** (For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 1B. Channel shaped, fabricated from min 0.018 in. thick galv steel, min. 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
RESCUE METAL FRAMING, L L C — AlphaSTUD

2D. **Framing Members* — Steel Studs —** (Not Shown, As an alternate to Item 2 — For the 1/2 or 1 Hour Nonbearing Wall Ratings) — for use with Item 1C. Channel shaped studs, fabricated from min 25 MSG (0.018 in. min. bare metal thickness), min. 3-5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper X

3. **Wood Studs —** (Not Shown, As an alternate to Items 1 and 2 — For the 1/2 Bearing Wall Rating) — Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped. When wood studs are used, Finish Rating is 16 Min.

4. **Batts and Blankets* —** (Optional, Not Shown) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets** (BKNV or BZJZ) Categories for names of Classified companies.

5. **Furring Channels —** (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws for steel studs and 1 in. long Type S screws for wood studs.

6. **Gypsum Board* —** 5/8 in. thick paper surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.
1/2 Hour Bearing Rating On Wood Studs — Single layer secured with 1-5/8 in. long Type S steel screws spaced 12 in. OC at the perimeter and in the field.

1/2 Hour Nonbearing Rating On Steel Studs — Single layer secured with 1 in. long Type S steel screws spaced 8 in. OC at the perimeter and 8 in. OC in the field.

1 Hour Nonbearing Rating On Steel Studs — Base layer boards secured with 1 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. Face layer boards secured with 1-5/8 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. When joints are aligned, screws are offset 8 in. between layers.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type CLL30

7. **Joint Tape and Compound —** Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

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

Last Updated on 2020-06-04