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Design No. U419
BXUV.U419
Fire-resistance Ratings - ANSI/UL 263

Floor Assembly

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, systems, 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 previously by the product submitter. Their contact info can be found on the Certification Directory pages for the particular Guide Information for each product category, and each group of assemblies. The Model Information in Guides usually concerning all known materials and alternate methods of construction.
- Only products with a 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 Acceptable Substrates

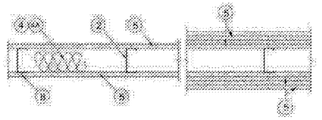
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Acceptable Substrates

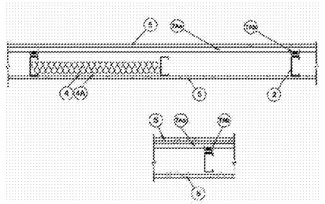
Design No. U419

July 12, 2018

Nonbearing Wall Ratings — 1, 2, 3 or 4-Hr (See Items 4 & 5 through 5C)

▼ 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) — Top and bottom runners, fabricated from min 0.016 in. (nominal 26 MSG) corrosion-protected steel, min depth as required to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners spaced 24 in. OC max.

1A. **Framing Members* — Floor and Ceiling Runner** — (Not Shown) — As an alternate to Item 1, for use with Item 2A, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners spaced 24 in. OC max.

2. **Steel Structural Panel Sheathing** — (Optional, for use with Item 3 Only) — (Not Shown) — 4 ft wide, 3/4 in. thick exterior grade boards (OSB) or (OSB) or (Plywood) complying with DOC PS 2 or PS1, or APA Standard A&B-308, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from adjacent joints. Attached to studs with fire-rated self-drilling tapping screws with a min 1 in. head diameter, 2-1/2 in. OC, at maximum 6 in. OC, in the field. Where used, gypsum panel sheathed over OSB or plywood panels and fastener lengths for gypsum panels increased by min 1/4 in.

3. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nominal thickness as indicated under Item 5.

See **Batts and Blankets** (BKMR) or (BZJX) Categories for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, acts glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKMR) or (BZJX) Categories for names of Classified companies.

4B. **Batts and Blankets*** — For use with Item 5A, placed in stud cavities, one min 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKMR) or (BZJX) Categories for names of Classified companies.

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type GUR410ME Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUR410ME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUR410ME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUR410ME Framing System

UNITED METAL PRODUCTS INC — Type SUR410ME Framing System

10. **Floor and Ceiling Runners** — (Not Shown) — For use with Item 2A — Channel shaped, fabricated from min 20 MSG corrosion-protected steel, min depth as recommended under Item 5, sized to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners spaced max 24 in. OC.

10. **Framing Members* — Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 10, for use with Item 2B, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners spaced 24 in. OC max.

CLARKDIETRICH BUILDING SYSTEMS — CD-R6S16A

DMFCWBS L L C — Ins21AAK

MBA METAL FRAMING — Rvc24AW

RAM SALES L L C — Ram Ins5716AL

STEEL STRUCTURAL PRODUCTS L L C — Ins-S-Pro24WK

17. **Framing Members* — Floor and Ceiling Runner** — (Not Shown) — As an alternate to Item 17, for use with Item 2F, proprietary channel shaped runners, minimum width to accommodate stud size, with 1- 1/4 in. long legs fabricated from min 0.013 in. (min bare metal thickness) galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

SUPER STUD BUILDING PRODUCTS — The Edge

16. **Framing Members* — Floor and Ceiling Runner** — (Not Shown) — As an alternate to Item 16, proprietary channel shaped runners, minimum width to accommodate stud size, fabricated from min 0.016 in. galv steel, attached to floor and ceiling with fasteners spaced max 24 in. OC.

STUDCO BUILDING SYSTEMS — DTSCST400 Track

18. **Floor and Ceiling Runners** — (Not Shown) — Channel shaped, fabricated from min 0.02 in. galv steel, min width to accommodate stud size, with min 1 in. long legs, for use with studs identified below and fabricated from min 0.016 in. galv steel or thicker, attached to floor and ceiling with fasteners spaced max 24 in. OC.

RAMSING/WARD, DIV OF WARE INDUSTRIES INC — Vpw20** Track VP1U6

PUSION BUILDING PRODUCTS — Vpw20** Track VP1U6T

IMPERIAL MANUFACTURING GROUP INC — Vpw20** Track VT1U6

18. **Framing Members* — Floor and Ceiling Runners** — (Not Shown) — As an alternate to Item 18, for use with Items 2K, channel shaped, fabricated from min 0.033 in. (min bare metal thickness) galvanized steel, attached to floor and ceiling with fasteners 24 in. OC. max.

TELLING INDUSTRIES L L C — T550-T54CSC*

11. **Framing Members* — Floor and Ceiling Runner** — (Not Shown — To be used with Item 2J, proprietary channel shaped runners, 3-5/8 in. deep attached to floor and ceiling with fasteners 24 in. OC max.

TELLING INDUSTRIES L L C — Vpw20** Track

14. **Framing Members* — Floor and Ceiling Runner** — (Not Shown — As req'd Item 1 — For use with Item 2I, proprietary channel shaped runners, 3 1/4 in. wide by 3-5/8 in. deep fabricated from min 0.033 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

TELLING INDUSTRIES L L C — Vpw20** Track

11. **Framing Members* — Floor and Ceiling Runner** — (Not Shown — To be of Item 1 — For use with Item 2L, proprietary channel shaped runners, 3-1/4 in. wide by min 3-5/8 in. deep fabricated from min 0.033 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

STEEL INVESTMENT GROUP L L C — AxPw3TPAK

19. **Framing Members* — Floor and Ceiling Runner** — (Not Shown — As an alternate to Item 1 — For use with Item 2O, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

RONDO BUILDING SERVICES PTY LTD — Rondo Web Track

19. **Framing Members* — Floor and Ceiling Runners** — (Not Shown — As an alternate to Item 1 — For use with Item 2P, proprietary channel shaped runners, min width to accommodate stud size, galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

DEC BUILDING MATERIALS — DEC\$ Track

20. **Framing Members* — Steel Studs** — (Not Shown) — As req'd Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced max 24 in. OC, fabricated from min 0.016 in. thick galv steel. Studs cut 3/8 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUR410ME Framing System

20. **Framing Members* — Steel Studs** — (In lieu of Item 2 — Channel shaped studs, min depth as indicated under Item 5, spaced max 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

ALLSTEEL & GYPSUM PRODUCTS INC — Type SUR410ME Framing System

CONSOLIDATED FABRICATORS CORP, BUILDING PRODUCTS DIV — Type N10ME04 Framing System

QUAIL RUN BUILDING MATERIALS INC — Type SUR410ME Framing System

SCAFCO STEEL STUD MANUFACTURING CO — Type SUR410ME Framing System

STEEL CONSTRUCTION SYSTEMS INC — Type SUR410ME Framing System

UNITED METAL PRODUCTS INC — Type SUR410ME Framing System

25. **Framing Members* — Steel Studs** — (Not Shown) — As an alternate to Item 2J — For use with Item 5F or 5G or 5I or 5K only, channel shaped studs, min depth as indicated under Item 5F, 5G or 5I, fabricated from min 0.0179 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 3/4 in. less than assembly height.

CLARKDIETRICH BUILDING SYSTEMS — CD-Pro0718

DMFCWBS L L C — Pro0730

MBA METAL FRAMING — Pro0718D

RAM SALES L L C — Ram Pro0718D

STEEL STRUCTURAL PRODUCTS L L C — Pro-S-Pro0718

24. **Framing Members* — Steel Studs** — (Not Shown — As req'd Item 2 — proprietary channel shaped steel studs, min depth as indicated under Item 5, spaced a max of 24 in. OC, fabricated from min 0.0179 in. (min bare metal thickness) galvanized steel, studs 3/8 in. to 3/4 in. less in height than assembly height.

SUPER STUD BUILDING PRODUCTS — The Edge

3. **Steel Structural Panel Sheathing** — (Optional, for use with Item 3 Only) — (Not Shown) — 4 ft wide, 3/4 in. thick exterior grade boards (OSB) or (OSB) or (Plywood) complying with DOC PS 2 or PS1, or APA Standard A&B-308, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from adjacent joints. Attached to studs with fire-rated self-drilling tapping screws with a min 1 in. head diameter, 2-1/2 in. OC, at maximum 6 in. OC, in the field. Where used, gypsum panel sheathed over OSB or plywood panels and fastener lengths for gypsum panels increased by min 1/4 in.

4. **Batts and Blankets*** — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nominal thickness as indicated under Item 5.

See **Batts and Blankets** (BKMR) or (BZJX) Categories for names of Classified companies.

4A. **Batts and Blankets*** — (Optional) — Placed in stud cavities, acts glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKMR) or (BZJX) Categories for names of Classified companies.

4B. **Batts and Blankets*** — For use with Item 5A, placed in stud cavities, one min 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.

See **Batts and Blankets** (BKMR) or (BZJX) Categories for names of Classified companies.

42. **Fiber, Sprayed*** — (Optional) and as an alternate to Batts and Blankets (Item 4B) where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 6.2 pcf to consistently fill the void space in accordance with the application instructions supplied with the product. **See Fiber, Sprayed** (XOQR2).

AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

5. **Gypsum Board*** — (Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud space on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud space. Horizontal joints need not be backed by stud framing. Horizontal edge joints and horizontal joint perpendicular sides of studs need not be staggered. Horizontal edge joints and horizontal joint parallel sides of studs need not be staggered but joints on opposite sides of studs shall not be opposite each other (multilayer systems) need not be staggered. Max stud spacing 24 in. OC unless otherwise noted.

Gypsum Board Protection on Each Side of Wall

Rating, Hr	Min Stud Depth, In. Item 2E	No. of Layers & Thickness of Panel	Min Thkns of Insulation (Item 4)
1	3-5/8	2 layers, 1/2 in. thick	Optional
2	3-5/8	2 layers, 5/8 in. thick	Optional
3	3-5/8	3 layers, 1/2 in. thick	Optional
3	3-5/8	3 layers, 5/8 in. thick	Optional
4	3-5/8	4 layers, 5/8 in. thick	Optional
4	3-5/8	4 layers, 1/2 in. thick	Optional

CGC INC — 1/2 in. thick Type C, SHEETROCK Brand Gypsum C, SHEETROCK Brand Gypsum C, SHEETROCK Brand Gypsum