



**Design No. W437
BXUV.W437
Fire-resistance Ratings - ANSI/UL 263**

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 - 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.
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BXUV - Fire Resistance Ratings - ANSI/UL 263

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

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

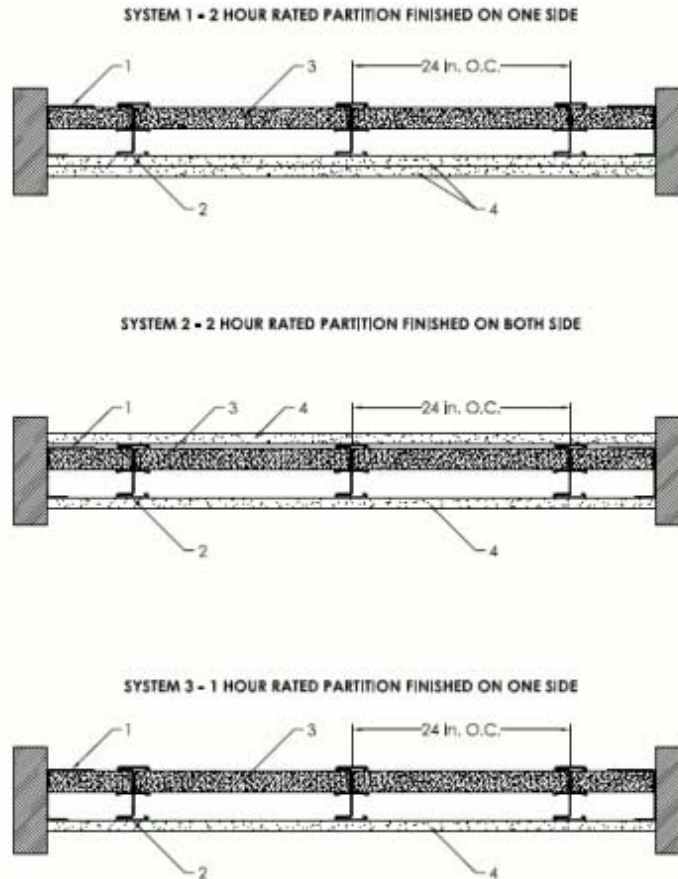
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Design No. W437

May 22, 2015

Nonbearing Wall Rating - 1 or 2 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. Steel Framing Members (Floor, Side and Ceiling Runners)* — "J"-shaped runner, min 2-1/2 in. deep, with unequal legs of 1 in. and min 2-1/4 in. fabricated from min 25 MSG galv steel (0.0179 in. bare steel thickness). Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. Runners may be supplied with securement tabs for gypsum liner panels (refer to Item 3).

SCAFCO STEEL STUD MANUFACTURING CO — I-Stud Shaftwall Steel Framing System

2. Steel Framing Members (Steel Studs)* — "I"-shaped studs fabricated from min 25 MSG galv steel, min 2-1/2 in. deep, 1-1/2 in. wide. Studs contain 3/4 in. wide by 2-1/4 in. high holding tabs spaced 2-3/4 in. OC. Cut to lengths 5/8 in. less than floor-to-ceiling height and spaced 24 in.

SCAFCO STEEL STUD MANUFACTURING CO — I-Stud Shaftwall Steel Framing System

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. wide. Panels cut max 1 in. less in length than floor to ceiling height. Vertical edges inserted in holding tabs of "I" shaped studs. Free edge of end panels attached to long leg of "J" -runners with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced not greater than 12 in. OC. In lieu of the 1-5/8 in. screws, when J-shaped runners (Item 1) are supplied with securement tabs, free edge of end panels may be secured by bending the securement tabs, max 12 in. OC, to a 90 degree angle to securely friction-fit panels into J-shaped runners. See the proceeding Systems in Item 4 for use of specific Type designation.

AMERICAN GYPSUM CO — Types AG-S, M-Glass

CERTAINEED GYPSUM INC — Types Shaftliner, EGRG Shaftliner, GlasRoc Shaftliner

CGC INC — Type SLX

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

GEORGIA-PACIFIC GYPSUM L L C — Types TP-6, DGUSL

NATIONAL GYPSUM CO — Types FSW, FSW-B, FSW-7

THAI GYPSUM PRODUCTS PCL — Type Shaftliner

UNITED STATES GYPSUM CO — Type SLX

USG MEXICO S A DE C V — Type SLX

System A

4. Gypsum Board* —

For use with **Type Shaftliner** liner panels - Gypsum panels, nom 1/2 or 5/8 in. thick, 48 in. wide, applied in one of the following methods. Method 1 — Base layer installed horizontally to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC. Face layer installed vertically to steel studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC, staggered 12 in. from base layer screws. Method 2 — Base layer installed vertically to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC. Face layer installed horizontally to steel studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC, staggered 12 in. from base layer screws. Additionally, Type G screws to be installed at the center of each stud cavity, 1-1/2 in. from both sides of the horizontal joint. For the 1/2 in. thick and 5/8 in. thick boards, the Type G screw length shall be 1-1/4 in. and 1-1/2 in. long, respectively.

For use with **Type EGRG Shaftliner** liner panels - Gypsum panels, nom 1/2 or 5/8 in. thick, 48 in. wide, applied in one of the following methods. Method 1 — Base layer installed horizontally to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC. with the 1st screws installed 12 in. from the board edge. Face layer installed vertically to steel studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC. with the 1st and 2nd screws spaced 3/4 in. and 6-3/4 in. from the board edge, staggered 12 in. from base layer screws. Method 2 — Base layer installed vertically to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC. with the 1st screws installed 12 in. from the board edge. Face layer installed horizontally to steel studs with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC., with the 1st and 2nd screws installed 3/4 in. and 6-3/4 in. from the board edge, staggered 12 in. from base layer screws. Additionally, Type G screws to be installed at the center of each stud cavity, spaced 12 in. OC., 1-1/2 in. from both sides of the horizontal joint. For the 1/2 in. thick and 5/8 in. thick boards, the Type G screw length shall be 1-1/4 in. and 1-1/2 in. long, respectively.

CERTAINTED GYPSUM INC — 1/2 in. thick Type C, 5/8 in. thick Type C, or 5/8 in. thick Type X or Type X-1

THAI GYPSUM PRODUCTS PCL — Type C, Type X

For use with **Types FSW, FSW-B or FSW-7** liner panels - Gypsum panels, 1/2 in. or 5/8 in. thick, 4 ft wide wallboard applied vertically in two layers. Base layer attached to studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 24 in. OC along the edges and in the field of the boards. Face layer attached to studs and channel track with 1-5/8 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. along the edges and in the field of the boards, staggered from screw in inner layer. Joints between inner and outer layers staggered. Outer layer joints covered with paper tape and joint compound.

AMERICAN GYPSUM CO — 1/2 or 5/8 Types AG-C

CERTAINTED GYPSUM INC — 1/2 in. thick Type C

CGC INC — 1/2 in. thick Type C or IP-X2

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC-C/A

NATIONAL GYPSUM CO — 1/2 in. thick Types - eXP-C, FSK-C, FSW-G, FSW-C, FSMR-C, 5/8 in. thick Type FSMR-C, SoundBreak XP type X Gypsum Board

THAI GYPSUM PRODUCTS PCL — Type C

UNITED STATES GYPSUM CO — 1/2 in. thick Type C or IP-X2

USG MEXICO S A DE C V — 1/2 in. thick Type C or IP-X2

For use with **Type SLX** liner panels - Gypsum panels, nom 1/2 in. or 5/8 in. thick, 48 in. applied vertically two layers. Base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2 or WRC; 5/8 in. Types AR, C, FRX-G, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2 or WRC; 5/8 in. Types AR, C, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2 or WRC; 5/8 in. Types AR, C, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

For use with **Types AG-S, M-Glass, DGUSL or Type TP-6** liner panels -1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached at right angles to studs and side "J" runners with 1 in. long Type S self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards. Face layer oriented parallel to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

AMERICAN GYPSUM CO — Types AG-C

GEORGIA-PACIFIC GYPSUM L L C — Type TG-C

For use with **Types AG-S or M-Glass** liner panels - 1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type S self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards.

Face layer applied vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

AMERICAN GYPSUM CO — 1/2 or 5/8 in. Type AG-C, 5/8 in. Type AGX-1 or M-Glass

For use with **Type LGFCSL** liner panels - 1/2 or 5/8 in. thick, 4 ft wide, applied in two layers. Base layer attached horizontally to studs and side "J" runners with 1 in. long Type S self-tapping steel screws starting at 2 in. from the floor and ceiling runners and spaced a maximum 24 in. OC along the vertical edges and in the field of the boards. Face layer installed vertically to studs and side "J" runners and attached with 1-5/8 in. long Type S self-tapping steel screws, starting at 3 in. from the floor and ceiling runners and spaced a maximum 12 in. OC along the vertical edges and in the field of the boards. Face layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC-C/A, LGFC6A

System B

For use with **Types Shaftliner and EGRG Shaftliner** liner panels - Gypsum panels, nom 1/2 or 5/8 in. thick, 48 in. wide, applied vertically to steel studs with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC. Vertical joints on opposite sides of wall staggered a min of 24 in.

CERTAINTED GYPSUM INC — 1/2 in. thick Type C, 5/8 in. thick Type C, or 5/8 in. thick Type X or Type X-1

THAI GYPSUM PRODUCTS PCL — Type C, Type X

For use with **Types FSW, FSW-B, or FSW-7** liner panels - Gypsum panels, 1/2 in. or 5/8 in. thick, 4 ft wide applied either horizontally or vertically and attached to studs and runners with 1 in. long Type S steel screws spaced 12 in. OC.

NATIONAL GYPSUM CO — 1/2 in. thick Types -eXP-C, FSK-C, FSW-C, FSW-G, FSMR-C, 5/8 in. thick Types FSMR-C, FSW-6, SoundBreak XP type X Gypsum Board (boards limited to vertical application only and 8" oc fastener spacing)

For use with **Type SLX** liner panels - Gypsum panels, nom 1/2 in. or 5/8 in. thick, 48 in. wide, applied vertically, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC.

CGC INC — 1/2 in. Type C, IP-X2; 5/8 in. Types AR, C, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2; 5/8 in. Types AR, C, FRX-G, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2; 5/8 in. Types AR, C, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

For use with **Types AG-S, M-Glass, DGUSL or Type TP-6** liner panels - 1/2 or 5/8 in. thick, 4 ft wide, applied vertically and attached to studs and runners with 1 in. long Type S steel screws starting at 2 in. from the top and the bottom, and spaced at 12 in. OC. Vertical joints are offset one stud space each side. Outer layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

AMERICAN GYPSUM CO — Types AG-C

GEORGIA-PACIFIC GYPSUM L L C — Type TG-C

For use with **Types AG-S or M-Glass** liner panels - 1/2 or 5/8 in. thick, 4 ft wide, applied vertically and attached to studs and runners with 1 in. long Type S steel screws starting at 2 in. from the top and the bottom, and spaced at 12 in. OC. Vertical joints are offset one stud space each side. Outer layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

AMERICAN GYPSUM CO — 1/2 or 5/8 in. Type AG-C, 5/8 in. Type AGX-1 or M-Glass

For use with **Type LGFCSL** liner panels - 1/2 or 5/8 in. thick, 4 ft wide, applied vertically and attached to studs and runners with 1 in. long Type S steel screws starting at 2 in. from the top and the bottom, and spaced at 12 in. OC. Vertical joints are offset one stud space each side. Outer layer joints covered with paper tape and two coats of joint compound. Exposed screw heads covered with two coats of joint compound.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC-C/A, LGFC6A

System C

For use with **Types Shaftliner and EGRG Shaftliner** liner panels - Gypsum panels, nom 5/8 in. thick, 48 in. wide, applied vertically with edges centered over studs, with 1 in. long Type S self-drilling, self-tapping bugle head steel screws spaced 12 in. OC.

CERTAINTED GYPSUM INC — Type X, Type X-1, Type C

THAI GYPSUM PRODUCTS PCL — Type X, Type C

For use with **Types FSW, FSW-B or FSW-7** liner panels - Gypsum panels, 5/8 in. thick, 4 ft wide, applied horizontally or vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards.

NATIONAL GYPSUM CO — Types -eXP-C, FSK, FSL, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSMR-C, SoundBreak XP type X Gypsum Board (boards limited to vertical application only and 8" OC fastener spacing)

For use with **Type SLX** liner panels - Gypsum panels, 5/8 in. thick, 4 ft wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards.

CGC INC — Types AR, C, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX, USGX (Joint tape and compound, Item 5, optional for use with Type USGX)

USG MEXICO S A DE C V — Types AR, C, IP-X1, IP-X2, SCX, SHX, ULX, WRC, WRX

For use with **Types AG-S or M-Glass** liner panels - Gypsum panels, nom 5/8 in. thick, 48 in. wide, applied vertically

with edges centered over studs, with 1 in. long Type S bugle head steel screws spaced 12 in. OC.

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C

For use with **Type LGFCSL** liner panels - Gypsum panels, nom 5/8 in. thick, 48 in. wide, applied vertically with edges centered over studs, with 1 in. long Type S bugle head steel screws spaced 12 in. OC.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC-C/A, LGFC6A

4A. Gypsum Board* — As an alternate to 5/8 in. Type FSW in Item 4, System A — Nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 4, System A. Horizontal joints on the same side need not be staggered. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 4, System A, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 4, System A. **As an alternate to 5/8 in. Type FSW in Item 4, System C** - 2 layers nom. 5/16 in. thick gypsum panels applied vertically. Horizontal joints on the same side need not be staggered. Inner layer attached with fasteners, as described in item 4, System C, spaced 24 in. OC. Outer layer attached per Item 4, System C.

NATIONAL GYPSUM CO — Type FSW

5. Joint Tape and Compound — (Not shown) — Exposed joints covered with joint compound and paper or mesh tape. Screw heads covered with joint compound.

6. Batts and Blankets* — (Optional, not shown) — For use in Systems A, B or C when Type FSW liner panels are used, mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt bearing the UL Classification Marking as to Fire Resistance. See Batts and Blankets (BZJZ) category for names of Classified companies.

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

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