

BXUV.V313

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](#)

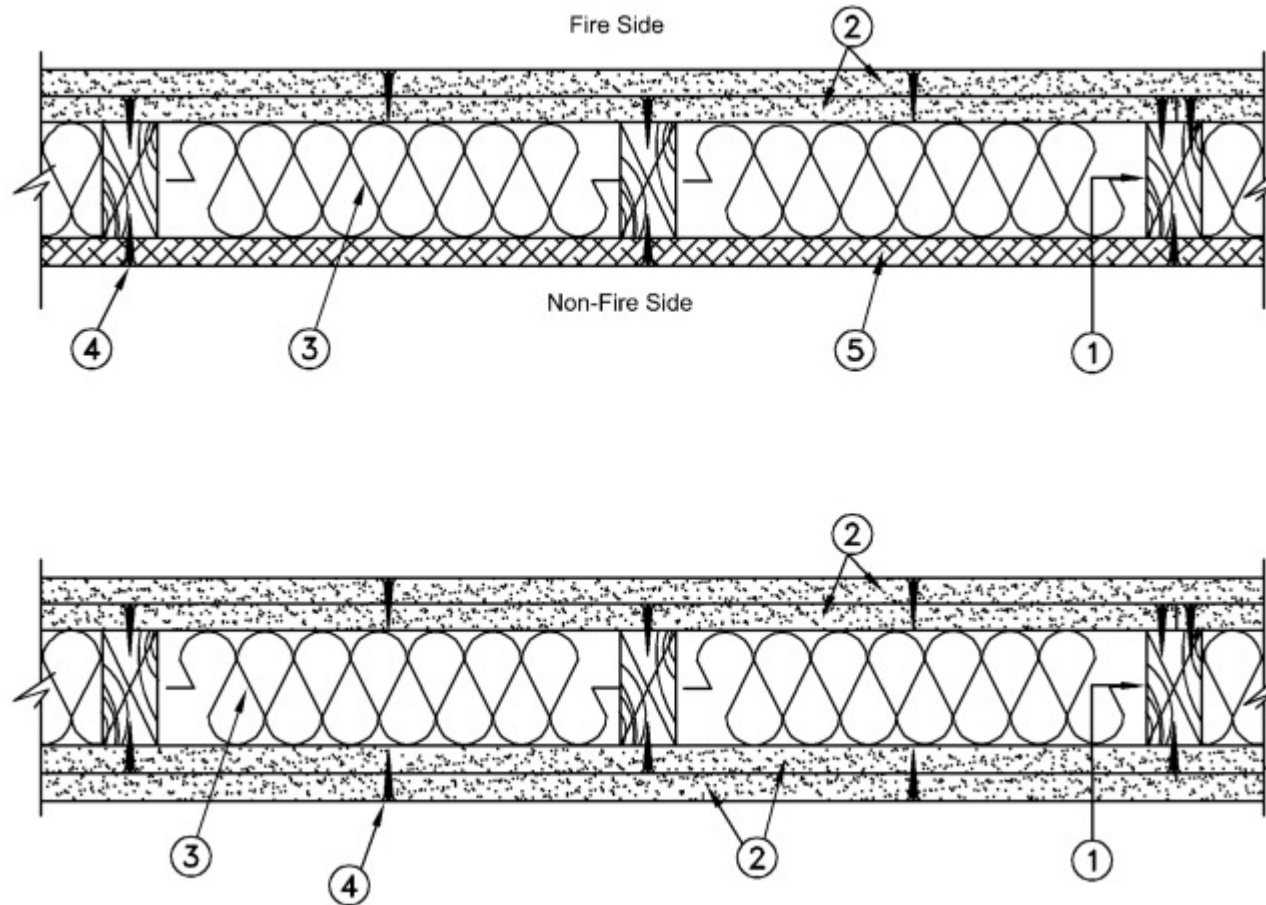
Design No. V313

November 23, 2020

Bearing and Non-Bearing Wall Rating — 1 Hr (See Item 3)

For Wood Studs, Finish Rating — 38 min

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



1. **Wood Studs** — Nom 2 by 4 in., spaced 16 in. OC, effectively braced and firestopped at top and bottom.

1A. **Steel Studs** — (Not Shown) In lieu of Item 1. Corrosion protected steel studs, fabricated from min. 0.0329 in. thick bare metal (No. 20 MSG) min. 3-1/2 in. deep, cold formed, shall be designed in accordance with the current edition of the Specification for the Design of Cold-Formed Steel Structural Members by the American Iron and Steel Institute. All design details enhancing the structural integrity of the wall assembly, including the axial design load of the studs, shall be as specified by the steel stud designer and/or producer, and shall meet the requirements of all applicable local code agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC. Studs attached to floor and ceiling tracks with 1/2 in. long Type S-12 steel screws on both sides of studs or by welded or bolted connections designed in accordance with the AISI specifications.

1B. **Steel Floor and Ceiling Tracks** — (Not Shown, for use with Item 1A) — Top and bottom tracks of wall assemblies shall consist of steel members, fabricated from min. 0.0329 in. thick bare metal (No. 20 MSG) and min. 3-1/2 in. deep. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. O.C.

1C. **Lateral Support Members** — (Not shown, for use with Item 1A) — Where required for lateral support of steel studs, support may be provided by means of steel straps, channels or other similar means as specified in the design of a particular steel stud wall system.

2. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, applied vertically, with vertical joints centered over wood studs. Base layer fastened to studs and plates with 6d cement coated nails, 1-7/8 in. long spaced 7 in. OC. or 1-7/8 in. long Type S or W steel screws spaced 6 in. OC. Face layer fastened to base layer at the edges with 1-5/8 in. long Type G screws at 8 in. OC and to studs at with 2-1/2 in long Type S at 12 in. OC in the field or face layer fastened to studs with 2-1/2 in long Type S steel screws at 8 in. OC on the edges and 12 in. OC in the field. Face layer joints offset a min of 24 in. from base layer joints. For securement to steel studs and track, 4 ft wide, applied vertically, with vertical joints centered over steel studs. Face layer joints offset a min of 24 in. from base layer joints which are also centered over studs. Face layer secured with 1 in. long Type S or S-12 steel screws spaced 6 in. OC. Base layer secured to studs and track with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC on the edges and 12 in. OC in the field.

AMERICAN GYPSUM CO — Type AGX-1, M-Glass, LightRoc

CERTAINTED GYPSUM INC — Type X, Type X-1, Easi-Lite Type X-2, Type EGRG, Type GlasRoc, GlasRoc-2

CGC INC — Type SCX or ULX

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

NATIONAL GYPSUM CO — Type FSK, Type FSK-G, Type FSW, Type FSW-3, Type FSW-5, Type FSW-G, Type FSK-C, Type FSW-C, Type FSMR-C, Type FSW-6, Type FSL

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Types SCX or ULX

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX or ULX

2A. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, applied vertically, with vertical joints centered over wood studs. Base layer fastened to studs and plates with 6d cement coated nails, 1-7/8 in. long spaced 7 in. OC. or 1-7/8 in. long Type S or W steel screws spaced 6 in. OC. Face layer fastened to base layer at the edges with 1-5/8 in. long Type G screws at 8 in. OC and to studs at with 2-1/2 in long Type S at 8 in. OC in the field or face layer fastened to studs with 2-1/2 in long Type S steel screws at 8 in. OC on the edges and 8 in. OC in the field. Face layer joints offset a min of 24 in. from base layer joints. For securement to steel studs and track, 4 ft wide, applied vertically, with vertical joints centered over steel studs. Face layer joints offset a min of 24 in. from base layer joints which are also centered over studs. Face layer secured with 1 in. long Type S or S-12 steel screws spaced 6 in. OC. Base layer secured to studs and track with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC on the edges and 8 in. OC in the field.

CGC INC — Type ULIX

UNITED STATES GYPSUM CO — Types ULIX

2B. **Gypsum Board*** — (As an alternate to Item 2. For use with Item 3A) — **Any 5/8 in. thick, 4 ft. wide, Gypsum Board UL Classified for Fire Resistance (CKNX) eligible for use in Design Nos. U305 and L501 or G512.** Two layers, applied horizontally with wood studs or vertically with steel studs, and screwed to studs with 1-5/8 in. long Type W coarse thread steel screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. For face layer, screw length to be increased to 2-1/2 in. All joints in face layers staggered with joints in base layers. For securement to steel studs and track, 4 ft wide, applied vertically, with vertical joints centered over steel studs. Face layer joints offset a min of 24 in. from base layer joints. Face layer secured with 1 in. long Type S or S-12 steel screws spaced 8 in. OC. Base layer secured to studs and track with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC on the edges and 8 in. OC in the field.

2C. **Gypsum Board*** — (As an alternate to Item 2 - For use with Item 3B) — 5/8 in. thick, 4 ft wide, applied vertically, with vertical joints centered over wood studs. Base layer fastened to studs and plates with 6d cement coated nails, 1-7/8 in. long spaced 7 in. OC. or 1-7/8 in. long Type S or W steel screws spaced 6 in. OC. Face layer fastened to base layer at the edges with 1-5/8 in. long Type G screws at 8 in. OC and to studs at with 2-1/2 in long Type S at 8 in. OC in the field or face layer fastened to studs with 2-1/2 in long Type S steel screws at 8 in. OC on the edges and 8 in. OC in the field. Face layer joints offset a min of 24 in. from base layer joints. For securement to steel studs and track, 4 ft wide, applied vertically, with vertical joints centered over steel studs. Face layer joints offset a min of 24 in. from base layer joints which are also centered over studs. Face layer secured with 1 in. long Type S or S-12 steel screws spaced 6 in. OC. Base layer secured to studs and track with 1-5/8 in. long Type S or S-12 steel screws spaced 8 in. OC on the edges and 8 in. OC in the field.

AMERICAN GYPSUM CO — Type AGX-1

CERTAINTED GYPSUM INC — Type X

CGC INC — Type SCX

THAI GYPSUM PRODUCTS PCL — Type X

UNITED STATES GYPSUM CO — Type SCX

USG BORAL DRYWALL SFZ LLC — Type SCX

USG MEXICO S A DE C V — Type SCX or ULX

2D. **Gypsum Board*** — (As an alternate to Item 2. For use with Item 3C) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 2 above. Two layers applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. All joints in outer layers staggered with joints in inner layers. Inner layer attached to studs with 1-7/8 in. long Type W steel screws spaced 6 in. OC. at the edges and in the fields. Outer layer attached to studs over inner layer with the 2-1/2 in. long Type W gypsum panel steel screws spaced 8 in. OC. on the edges and in the field. Face layer joints offset a min of 24 in. from base layer joints. For securement to steel studs and track, 4 ft wide, applied vertically, with vertical joints centered over steel studs. Face layer joints offset a min of 24 in. from base layer joints which are also centered over studs. Face layer secured with 1-5/8 in. long Type S or S-12 steel screws spaced 6 in. OC. Base layer secured to studs and track with 2-1/2 in. long Type S or S-12 steel screws spaced 8 in. OC on the edges and in the field.

3. **Foamed Plastic*** — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

BASF CORP — Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Spraytite® 158, Comfort Foam® 158, and Spraytite® 81205

A. **For Use in Bearing Walls** — Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® 200, Walltite® US and Walltite® US-N

B. **For Use in Non-Bearing Walls** — Enertite® NM, Enertite® G, Spraytite® 178, Comfort Foam® 178, Spraytite® 81206, Walltite® 200, Walltite® US, Walltite® US-N, Spraytite® 158, Comfort Foam® 158, and Spraytite® 81205

3A. **Foamed Plastic*** — (As an alternate to Item 3) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam. For use in Bearing and Non-Load Bearing Walls.

3B. **Foamed Plastic*** — (As an alternate to Item 3 - For use with Item 2C) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

GACO WESTERN L L C — Types GacoEZSpray F4500, GacoProFill FR6500R, Gaco 052N, GacoOnePass F1850, GacoOnePass Low GWP F1880, and Gaco WallFoam 183M

3C. **Foamed Plastic*** — (As an alternate to Item 3 - For use with Item 2D) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.

CARLISLE SPRAY FOAM INSULATION — SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCX, SealTite Pro No Trim, and SealTite Pro One Zero.

4. **Joints and Screw heads** — Wallboard joints covered with paper tape and joint compound. Screw heads covered with joint compound.

5. **Oriented Strand Board** — 7/16 in. thick, 4 ft. wide, applied vertically or horizontally, with joints centered over studs and fastened to studs with 6d cement coated nails, 1-7/8 in. long spaced 7 in. OC. For securement to steel studs and track, 1 in. long Type S or S-12 steel screws spaced 7 in OC.

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