

BXUV.U302 - Fire-resistance Ratings - ANSI/UL 263



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. U302

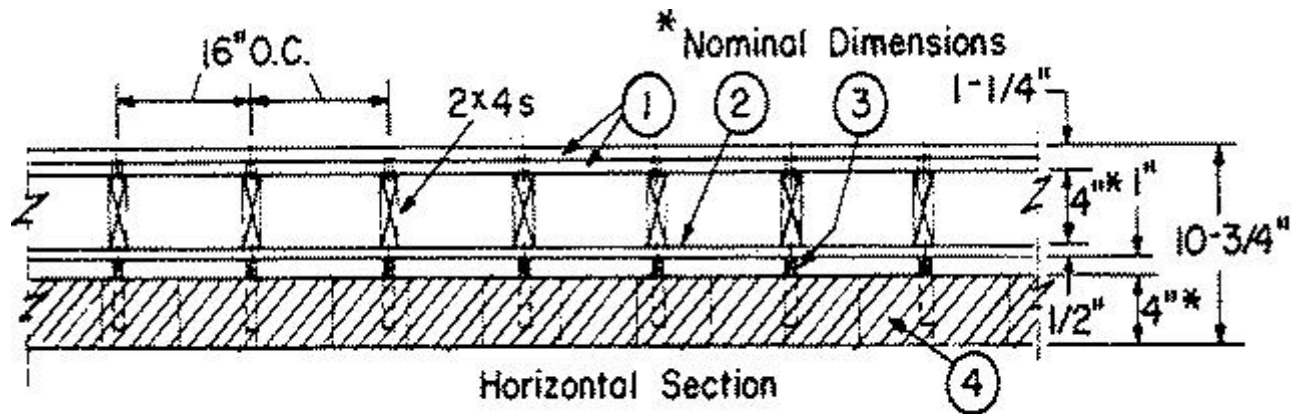
October 06, 2020

Bearing Wall Rating — 2 Hr.

Finish Rating — (When Exposed to Fire on Interior Face) 59 Min.

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.**



Top and Bottom of Wall Effectively Firestopped

1. **Gypsum Board*** — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 1/4 in. diam heads spaced 8 in. OC. Outer layer attached to studs over inner layer with 8d cement coated nails 2-3/8 in. long, 0.113 in. shank diam and 9/32 in. diam heads, spaced 8 in. OC. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Exposed joints covered with joint compound and paper tape. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard with the joints reinforced with paper tape. Gypsum board other than 48 in. wide must be applied horizontally.

AMERICAN GYPSUM CO — Types AG-C, AGX-1, M-Glass, AGX-11, LightRoc

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1

CABOT MANUFACTURING ULC — Type X, 5/8 Type X, Type Blueglass Exterior Sheathing

CERTAINTED GYPSUM INC — Types EGRG, GlasRoc, GlasRoc-2, Type C, Type X, Type X-1

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

CERTAINTED GYPSUM INC — Types LGFC2A, LGFC6A, LGFC-C/A, LGFC-WD, LGLLX, CLLX

GEORGIA-PACIFIC GYPSUM L L C — Types 5, 6, 9, C, DAP, DD, DA, DAPC, DGG, DS, GPFS1, GPFS6, LSme, TG-C, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, GreenGlass Type X, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type-DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W

NATIONAL GYPSUM CO — Types eXP-C, FSK, FSK-C, FSK-G, FSMR-C, FSW, FSW-3, FSW-5, FSW-6, FSW-8, FSW-C, FSW-G, FSL, RSX.

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-3, PG-4, PG-5, PG-9, PG-11, PG-C, PGS-WRS or PGI

PANEL REY S A — Types GREX, GRIX, PRC, PRC2, PRX, RHX, MDX, ETX

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1.

UNITED STATES GYPSUM CO — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULIX, ULX, USGX, WRC, WRX

USG BORAL DRYWALL SFZ LLC — Types C, SCX, USGX

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

1A. **Gypsum Board*** — (As an alternate to Item 1) — Nom 3/4 in. thick, installed as described in Item 1.

CGC INC — Types AR, IP-AR, IPC-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR, IPC-AR

USG MEXICO S A DE C V — Types AR, IP-AR, -IPC-AR

1B. **Gypsum Board*** — (As an Alternate to Item 1) — 5/8 in. thick applied either horizontally or vertically. Inner layers fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. Outer layers fastened to framing with 1-7/8 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths other than 48 in., gypsum board to be installed horizontally. All joints in face layers staggered with joints in base layers. Joints of each base layer offset with joints of base layer on opposite side. Exposed joints covered with joint compound and paper tape.

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

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

1C. **Gypsum Board*** — (As an alternate to Items 1 through 1B) — 5/8 in. thick, 4 ft. wide, paper surfaced applied vertically or horizontally and secured as described in Item 1.

CERTAINTEED GYPSUM INC — Type SilentFX

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board

NATIONAL GYPSUM CO — Type SBWB

1D. **Wall and Partition Facings and Accessories*** — (As an alternate to Items 1 through 1C) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 1.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

1E. **Gypsum Board*** — (As an alternate to Item 1) — 5/8 in. thick, 4 ft. wide, applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 1.

CERTAINTEED GYPSUM INC — 5/8" Easi-Lite Type X

THAI GYPSUM PRODUCTS PCL — Type X

1F. **Wall and Partition Facings and Accessories*** — (As an alternate to Items 1 through 1E) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically and secured as described in Item 1.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527

1G. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 1) — 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 1. 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 1, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 1.

NATIONAL GYPSUM CO — Type FSW.

1H. Gypsum Board* — (As an alternate to Item 1) — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type W steel screws spaced 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. Outer layer attached to studs over inner layer with 1-7/8 in. long Type W steel screws spaced 10 in. OC offset 5 in. from base layer with the last two screws 4 and 1 in. from the edges of the board. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, screwheads covered with joint compound. When used in widths other than 48 in., gypsum panels are to be installed horizontally.

CERTAINTED GYPSUM INC — Type LGFC6A, Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX

2. Sheathing — 1/2 in. thick exterior gypsum sheathing, 24 in. wide sheets, T&G edges. Min weight of sheets 1800 lb per 1000 sq ft, min thickness 0.480 in. Attached to studs horizontally with 1-3/4 in. long, 11d, 7/16 in. diam flathead galv roofing nails spaced 6 in. OC. Vertical joints located over studs and staggered between adjacent rows.

3. Corrugated Wall Ties — 3/4 in. wide by 6-5/8 in. long, 20 MSG galv steel. Attached to each stud with 2-3/8 in. long 8d cement coated nails, every sixth course of bricks. When Item 6 or Item 7 are used, the length of the nail should be increased by a minimum of the thickness of the Foamed Plastic (Item 6) or Building Units (Item 7).

4. Clay Face Bricks — 2-1/4 by 3-3/4 by 8 in. with cored holes, laid in full bed of mortar 3/8 to 1/2 in. thick consisting of three parts of clean sharp sand to one part of portland cement (proportioned by vol) and 15 percent hydrated lime (by cement vol). Min. 1 in. airspace provided between Sheathing (Item 2), Foamed Plastics (Item 6) or Building Units (Item 7) and Clay Face Brick (Item 4). Fastened over Sheathing (Item 2) or Foamed Plastic (Item 6) or Building Units (Item 7) to wood studs with Corrugated Wall Ties.

5. Cementitious Backer Units* — (Optional Item Not Shown - For Use On Face Of 2 Hr Systems With All Standard Items Required) — 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide.- Applied vertically with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.

NATIONAL GYPSUM CO — Type PermaBase

6. Foamed Plastic* — (Optional, Not Shown - For use between Sheathing, Item 2 and Brick, Item 4) — Polyisocyanurate foamed plastic boards, any thickness applied vertically with vertical joints over studs.

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci Class A", "Xci 286", "Xci Foil (Class A)", "Xci CG", "Xci Foil", "Xci CG NH", "Xci Foil NH"

7. Building Units* — (Optional, Not Shown - For use between Sheathing, Item 2 and Brick, Item 4) Rigid Polyisocyanurate composite foamed plastic boards. Applied vertically with vertical joints centered over studs.

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci NB", "Xci Ply"

*** 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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