

BXUV.V420 - Fire-resistance Ratings - ANSI/UL 263

**Drywall Solutions**

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

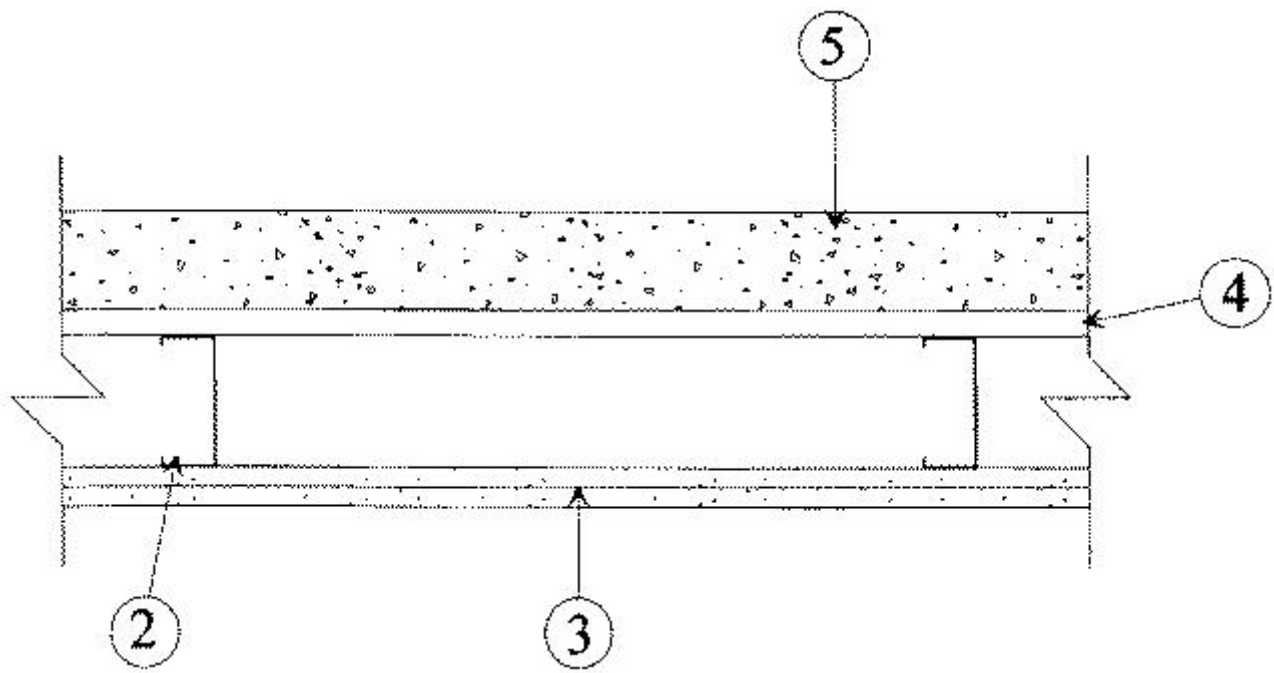
Design No. V420

January 19, 2021

Bearing Wall Rating — 2 Hr**Nonbearing Wall Rating — 2 Hr**

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) Channel shaped, fabricated from min 0.0329 in. thick (bare metal thickness) No. 20 gauge corrosion-protected steel, that provide a sound structural connection between steel studs and adjacent assemblies such as floor, ceiling and/or other walls. Attached to floor and ceiling assemblies with steel fasteners spaced not greater than 24 in. OC.

2. Steel Studs — Corrosion protected steel studs, min 3-1/2 in. wide, min No. 20 MSG (0.0329 in. thick bare metal thickness), cold formed, 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 agencies. The max stud spacing of wall assemblies shall not exceed 24 in. OC. Studs attached to floor and ceiling runners with 1/2 in. long Type S-12 steel screws on both sides of the studs or by welded or bolted connections designed in accordance with AISI specifications.

3. Gypsum Board* — Any 5/8 in. thick UL Classified Gypsum Board that is eligible for use in Design Nos. L501, G512 or U305. Nom 5/8 in. thick, 4 ft wide, applied vertically in two layers. Base layer attached to studs with 1 in. long Type S-12 steel screws spaced a max of 24 in. OC along the vertical edges. Face layer attached to the studs with 1-5/8 in. long Type S-12 steel screws spaced a max 12 in. OC along the vertical edges. Joints exposed or covered with tape and compound.

CABOT MANUFACTURING ULC ([View Classification](#)) — CKNX.R25370

AMERICAN GYPSUM CO ([View Classification](#)) — CKNX.R14196

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO ([View Classification](#)) — CKNX.R19374

CABOT MANUFACTURING ULC ([View Classification](#)) — CKNX.R25370

CERTAINTED GYPSUM INC ([View Classification](#)) — CKNX.R3660

CGC INC ([View Classification](#)) — CKNX.R19751

CERTAINTED GYPSUM INC ([View Classification](#)) — CKNX.R18482

GEORGIA-PACIFIC GYPSUM L L C ([View Classification](#)) — CKNX.R2717

LOADMASTER SYSTEMS INC ([View Classification](#)) — CKNX.R11809

NATIONAL GYPSUM CO ([View Classification](#)) — CKNX.R3501

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM ([View Classification](#)) — CKNX.R7094

PANEL REY S A ([View Classification](#)) — CKNX.R21796

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD ([View Classification](#)) — CKNX.R19262

THAI GYPSUM PRODUCTS PCL ([View Classification](#)) — CKNX.R27517

UNITED STATES GYPSUM CO ([View Classification](#)) — CKNX.R1319

USG BORAL DRYWALL SFZ LLC ([View Classification](#)) — CKNX.R38438

USG MEXICO S A DE C V ([View Classification](#)) — CKNX.R16089

3A. Gypsum Board* — (As an alternate to Item 3) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 3.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES

3B. Wall and Partition Facings and Accessories* — (As an alternate to Items 3 and 3A) — Nominal 5/8 in. thick, 4 ft wide panels, secured as described in Item 3.
PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-527

3C. Gypsum Board* — (As an alternate to 5/8 in. Type FSW in Item 3) - Nom. 5/16 in. thick gypsum panels applied vertically. Horizontal joints on the same side need not be staggered. Two layers of 5/16 in. for every single layer of 5/8 in. gypsum board described in Item 3. Inner layer of each double 5/16 in. layer attached with fasteners, as described in item 3, spaced 24 in. OC. Outer layer of each double 5/16 in. layer attached per Item 3.
NATIONAL GYPSUM CO — Type FSW

4. Furring Channels — 7/8 in. deep formed of 25 MSG galv steel, spaced 24 in. OC perpendicular to the studs. Channels overlap 1/2 in. and fastened to the studs with 1-1/4 in. long screws.

5. Precast Autoclaved Aerated Concrete — Min 3 in. thick and max 2 ft wide panels fastened to the furring channels with 2-1/2 in. long No. 14-10 hex head type self-drilling, self-tapping screws when fastened from the inside of building and with 4 in. long No. 14-10 hex head type self-drilling, self-tapping screws when fastened from the outside of building. Min 4 fasteners per panel per furring channel equal spaced starting 4 in. from each panel edge.
AERCON FLORIDA L L C — Type AAC Board

LITECRETE, S.A. DE C.V. — Type AAC Board

6. Thin Bed Mortar — A ANSI A118.4 Latex/Portland cement thin bed mortar applied to the joints of each panel.

*** 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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