

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](#)

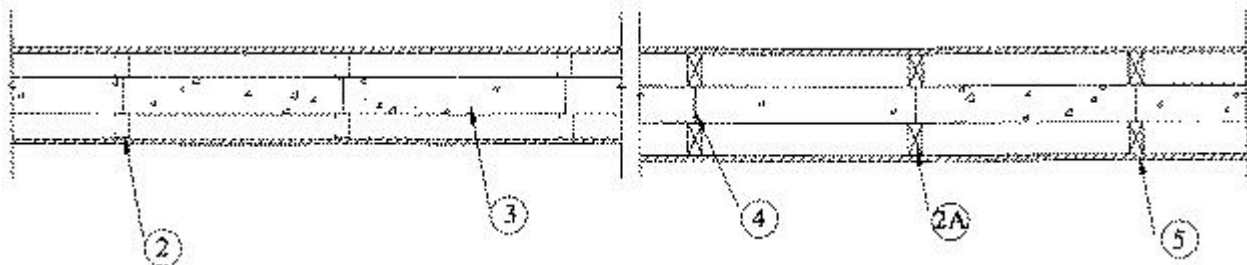
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances](#)

Design No. **U208**

March 16, 2023

Nonbearing Wall Rating - 2, 3, 4 Hr (See Item 3)

*** 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) - For use with Item 2. Channel shaped, fabricated from min 0.0329 in. thick 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 2-5/8 in. wide, min No. 20 MSG (0.0329 in. thick), 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. 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 pan head, self-drilling, self-tapping steel screws on both sides of the studs or by welded or bolted connections designed in accordance with AISI specifications.

2A. Wood Studs — As an alternate to Item 2, nom 2 in. by 4 in., spaced a max of 24 in. OC. Studs to be effectively firestopped at the top and bottom of the wall with nom 2 in. by 4 in. plates.

3. Precast Autoclaved Aerated Concrete Panels* —

2 Hr Rating — Min 2 in. thick and max 24 in. wide panels installed horizontally or vertically and fastened to the steel studs with 2-1/4 in. long Type S3 hex head type self-drilling, self-tapping screws or attached to the wood studs with #10, 3-1/2 in. long wood screws. When installed horizontally, ends joints to occur over studs and a minimum of 2 fasteners per panel at each stud spaced a max of 2 in. from the panel edge. When installed vertically, side joints to occur over studs and fasteners provided to studs a maximum of 24 in. oc. Fasteners only required to be attached through the panels to one side of studs.

3 Hr Rating — Min 3 in. thick and max 24 in. wide panels installed horizontally or vertically and fastened to the steel studs with 3-1/4 in. long Type S3 hex head type self-drilling, self-tapping screws or attached to the wood studs with #10, 4-1/2 in. long wood screws. When installed horizontally, ends joints to occur over studs and a minimum of 2 fasteners per panel at each stud spaced a max of 2 in. from the panel edge. When installed vertically, side joints to occur over studs and fasteners provided to studs a maximum of 24 in. oc. Fasteners only required to be attached through the panels to one side of studs.

4 Hr Rating — Min 4 in. thick and max 24 in. wide panels installed horizontally or vertically and fastened to the steel studs with 4-1/4 in. long Type S3 hex head type self-drilling, self-tapping screws or attached to the wood studs with #10, 5-1/2 in. long wood screws. When installed horizontally, ends joints to occur over studs and a minimum of 2 fasteners per panel at each stud spaced a max of 2 in. from the panel edge. When installed vertically, side joints to occur over studs and fasteners provided to studs a maximum of 24 in. oc. Fasteners only required to be attached through the panels to one side of studs.

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3A. Angles — (Optional – Alternate Securement of **Precast Autoclaved Aerated Concrete Panels**) – Aluminum angles 2 in. wide by 0.063 in. thick with 2 in. leg positioned against AAC panel and 2-1/4 in. leg positioned against studs (Item 2 or 2A). Clips to be installed on both sides of the panels at the same spacing indicated above for direct attachment of panels to studs.

Angles secured to steel studs with 1/2 in. long Type S-12 pan head, self-drilling, self-tapping steel screws through angle leg at each pre-drilled hole.

Angles secured to wood studs with 1-1/4 in. Type W screws through angle leg at each pre-drilled hole.

Angles secured to AAC panels with Type W screws through angle leg at each pre-drilled hole. Screws 1-1/4 in. long with 2 in. thick AAC panels, 2-1/2 in. long with 3 in. thick AAC panels and 3 in. long with 4 in. thick AAC panels.

4. Thin Bed Mortar — Applied to the joints of each panel.

5. Gypsum Board* — **Any 1/2 in. thick UL Classified Gypsum Board that is eligible for use in Design No. X515.** One layer of nom 1/2 in. thick by 48 in. wide boards installed vertically to wood studs or steel studs. Joints to occur at stud locations. Gypsum board attached to steel studs using 1 in. long Type S-12 steel screws spaced 8 in. OC along the edges and 12 in. OC in the field. Gypsum board attached to wood studs using 1-3/4 in. long galv. nails with 0.128 in. diameter shank and 7/16 in. diameter head, spaced 8 in. OC along the edges and in the field. Screws and nails located a min of 1/2 in. from side joints and 3 in. from end joints.

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

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

6. **Finishing System** — (Not Shown) - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads or nail heads; paper tape, 2 in. wide, embedded in first layer of compound over all joints. As an alternate, nom. 3/32 in. thick veneer plaster may be applied to the entire surface of the gypsum wallboard.

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