

BXUV.G521 - 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. G521

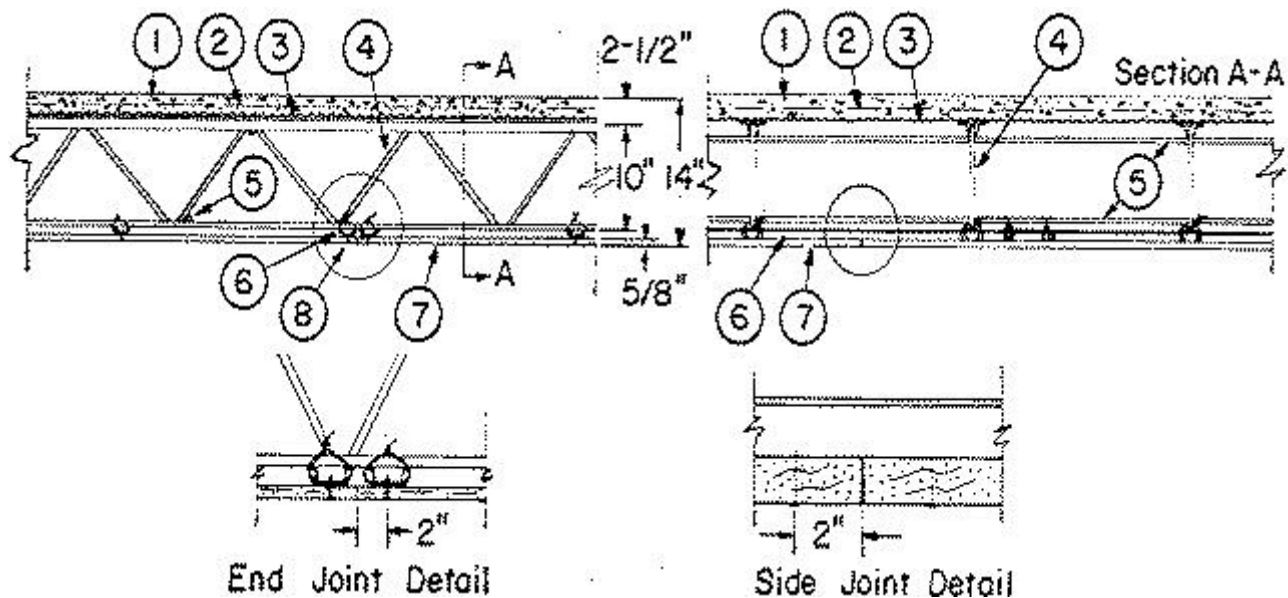
February 04, 2021

Restrained Assembly Rating — 2 Hr.

Unrestrained Assembly 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. **Sand-Gravel Concrete** — 150 pcf unit weight, 3500 psi compressive strength.

2. **Welded Wire Fabric** — 6X6, 10/10 SWG.

3. **Metal Lath** — 3/8 in. rib, 3.4 lb/sq yd expanded steel; tied to each joist at every other rib, and midway between joists at side lap with 18 SWG galv steel wire. As an alternate, the form material for the concrete may be corrugated steel deck 9/16 in. deep of 28 MSG (min) galv steel welded to supports 15 in. OC with washers. The concrete thickness shall be measured to the top plane of the steel deck.

4. **Steel Joists** — Type 10J3 min size, spaced 24 in. OC, welded to end supports.

5. **Bridging** — 1/2 in. diam continuous steel bar stock, welded to top and bottom chords of each joist.

6. **Furring Channels** — Formed 7/8 in. high by 2-11/16 in. wide at top and 1-3/4 in. wide at bottom, of 25 MSG galv steel as shown, spaced 24 in. OC perpendicular to joists. Channels fastened to each joist with 18 SWG galv steel wire bent into double strand saddle ties. Channels spliced with adjacent pieces overlapped 6 in. and tied with double strand of 18 SWG galv steel wire at each end of overlap.

As an alternate, furring channels may be secured to 1-1/2 in. cold-rolled channels at every intersection with double strand of 18 SWG galv wire. Cold-rolled channels spaced 24 in. OC and suspended perpendicular from lower chords of joists with 8 SWG galv wire spaced 48 in. OC along channels.

7. **Gypsum Board*** — 5/8 in. thick, 4 ft wide, installed with long dimension perpendicular to furring channels and side joints located midway between joists. Fastened to furring channels with 1-in. wallboard screws spaced 12 in. OC, 2 in. from butted side and end joints. End joints continuous and constructed as shown. Alternately, end joints of wallboard may be staggered and similarly fastened to additional pieces of furring channel which extend 3 in. beyond each end of joint. Wallboard joints exposed or covered with joint system.

AMERICAN GYPSUM CO — Type AG-C

CERTAINTED GYPSUM INC — Type C, Type LGFC-C/A

CGC INC — Types C, IP-X2, IPC-AR, ULIX.

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, TG-C.

NATIONAL GYPSUM CO — Types FSK-C, FSW-C, FSW-G.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type C.

PANEL REY S A — Type PRC

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, ULIX.

USG BORAL DRYWALL SFZ LLC — Type C

USG MEXICO S A DE C V — Types C , IP-X2, IPC-AR.

8. **Screw, Wallboard** — 1 in. long, 9/64 in. diam, self-drilling and self-tapping, Phillips-type head, Screw heads exposed or covered with joint cement.

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Last Updated on 2021-02-04

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