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

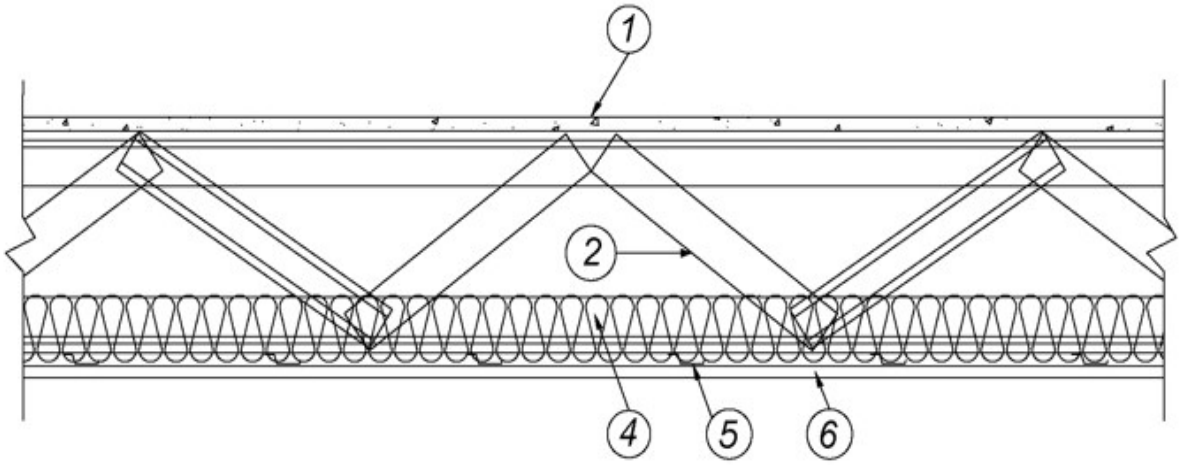
See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. H531

May 04, 2026

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. **Subflooring*—** Nom 3/4 inch thick, magnesium oxide structural panel with tongue-and-groove edge detail. Secured perpendicular to trusses with 1-5/8 in. self-drilling, wing-tip steel screws. End joints staggered a minimum of 4 ft. Screws spaced a maximum of 12 in. on center in the field and 6 in. on center on the perimeter with edge screws located nominally 1/2 in. from end joints and long joints.

NEXGEN Building Products Inc — Type MAXTERRA® MgO Non-Combustible Single Layer Structural Floor Panel

2. **Structural Steel Members* —** Prefabricated steel truss system consisting of cold-formed, galvanized steel cord and web sections. Overall truss depth minimum 12 in. Trusses spaced max of 24 in. OC.

ADVANT STEEL LLC — Type Advant CFT Truss System

2A. **Structural Steel Members* —** Pre-fabricated light gauge steel truss system consisting of cold-formed, galvanized steel cord and web sections. Trusses fabricated in various sizes, depths, and from various steel thickness. Trusses minimum 12 in. deep, spaced a max of 24 in. OC.

DOUGLASS COLONY GROUP INC — Type FRAMECAD

3. **Truss Bridging —** (Not Shown) - For use with Item 2 — Installed immediately after trusses are erected and before construction loads are applied, as per manufacture requirement. Location of lateral bracing for truss chord and web section to be specified on truss engineering.

4. **Batts and Blankets* —** Glass fiber batt insulation draped over the resilient channels. Any glass fiber batt insulation bearing the UL Classification Marking for Surface Burning Characteristics having a flame spread index of 25 or less and a smoke developed index of 50 or less may be used, with a min. 3-1/2 in. thickness, 0.58 pcf. See **Batts and Blankets** (BKNV) category in the Building Materials Directory for names of manufacturers.

5. **Resilient Channels —** Formed of No. 25 MSG galv. steel, 1/2 in. deep, spaced max 12 in. OC, perpendicular to trusses. Channel splices located beneath trusses and overlapped 4 in. Channels secured to each truss with one 1/2 in. long Type S-12 low profile steel screw. Two channels, spaced 6 in. OC, oriented opposite each gypsum board end joint. All resilient channels extend across the entire length of the assembly.

6. **Gypsum Board* —** One layer of nom 5/8 in. thick by 48 in. wide gypsum panels installed with long dimension perpendicular to resilient channels. Gypsum panels secured to resilient channels with 1 in. long Type S screws spaced 8 in. OC, with screws located 1 in. and 4 in. from the side joints.

UNITED STATES GYPSUM CO — Type ULIX

AMERICAN GYPSUM CO — Type AG-C

CERTAINTEED GYPSUM INC — Type C

GEORGIA-PACIFIC GYPSUM L L C — Type TG-C

NATIONAL GYPSUM CO — Type FSW-C

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

UNITED STATES GYPSUM CO — Type C

7. **Finishing System —** (Not Shown) — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2 in. wide paper tape embedded in first layer of compound over all joints.

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Last Updated on 2026-05-04