

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. M560

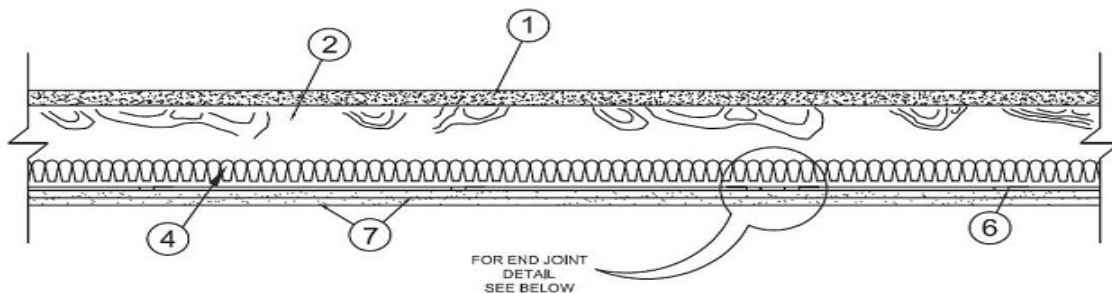
November 10, 2023

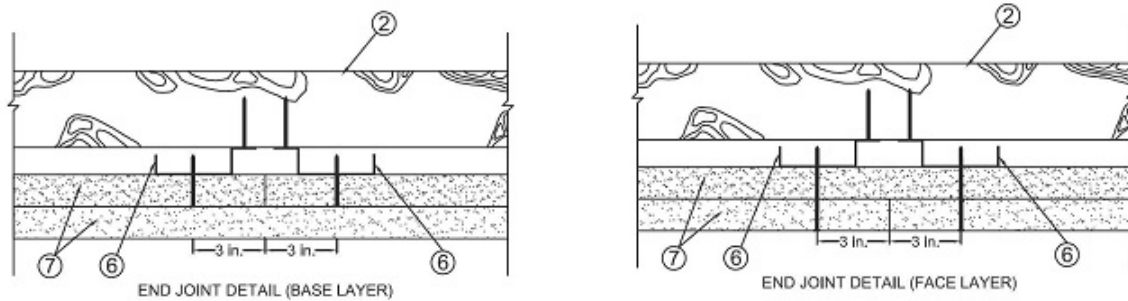
Unrestrained Assembly Rating — 1-1/2 Hr.

Finish Rating — 60 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.





1. **Precast Autoclaved Aerated Concrete Blocks*** — Flooring — 3 in. thick floor panels to be installed perpendicular across the joists. A thin layer of Hebel's AAC Thin Bed Mortar to be applied between the joints of the floor panels. End joints of the floor panels to be centered over joists and staggered 48 in. between adjacent lengths. Floor panels secured to joists with 4-1/2 in. #12 Dekfast fasteners spaced 8 in. OC, starting 4 in. from the side joint. Fasteners at panel end joints offset min 1-1/2 in. Fasteners installed at the perimeter of the assembly 6 in. OC, starting 3 in. from the side joint.

LITECRETE, S.A. DE C.V. — Type AAC-3, -4, -6 thin panels

2. **Wood Joists** — Min 2 by 10 in., spaced 16 in. OC and effectively fire blocked in accordance with local codes.

3. **Cross Bridging** - (Not Shown) — Min 1 by 3 in. or min 2 by 10 in. solid blocking.

4. **Batts and Blankets*** — Mineral wool or glass fiber insulation, nom. 3-1/2 in. thick, bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance, installed 1 in. from bottom surface of wood joists. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.

5. **Insulation Clips** — Nom 0.087 in. diam steel wire supplied in nom. 16 in. lengths, friction fitted between wood joists, spaced 18 in. OC and 2 in. away from each end of the batt.

6. **Resilient Channels** — 2-1/2 in. wide by 1/2 in. deep, formed of No. 25 MSG galv steel, spaced 16 in. OC installed perpendicular to joists. Channels overlapped 4 in. at splices and secured to each joist with one 1-5/8 in. long Type S bugle head steel screw. Additional channels installed 3 in. from each (base layer and face layer) board end joints on each layer and secured to adjacent joists. Additional channels shall extend beyond each side of board to next joists.

7. **Gypsum Board*** — Nom 5/8 in. thick, 4 ft wide gypsum board. Base layer installed with long dimension perpendicular to resilient channels and side joints centered between wood joists. Butted end joints in adjacent rows staggered min 32 in. Base layer secured to resilient channels with 1 in. long Type S bugle head steel screws spaced 16 in. OC in the field. End joints of base layer fastened to additional pieces of resilient channel positioned at end joint locations with 1 in. long Type S bugle head steel screws spaced 8 in. OC. Face layer installed with long dimension perpendicular to resilient channels. Face layer secured to resilient channels with 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC in the field. Butted end joints of face layer secured through base layer to additional pieces of resilient channel with 1-5/8 in. long Type S bugle head steel screws spaced 8 in. OC. Face layer side joints offset min 24 in. from base layer side joints. Face layer end joints offset min 16 in. from end joints of base layer.

UNITED STATES GYPSUM CO — Type C

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Last Updated on 2023-11-10

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