

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

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. M537

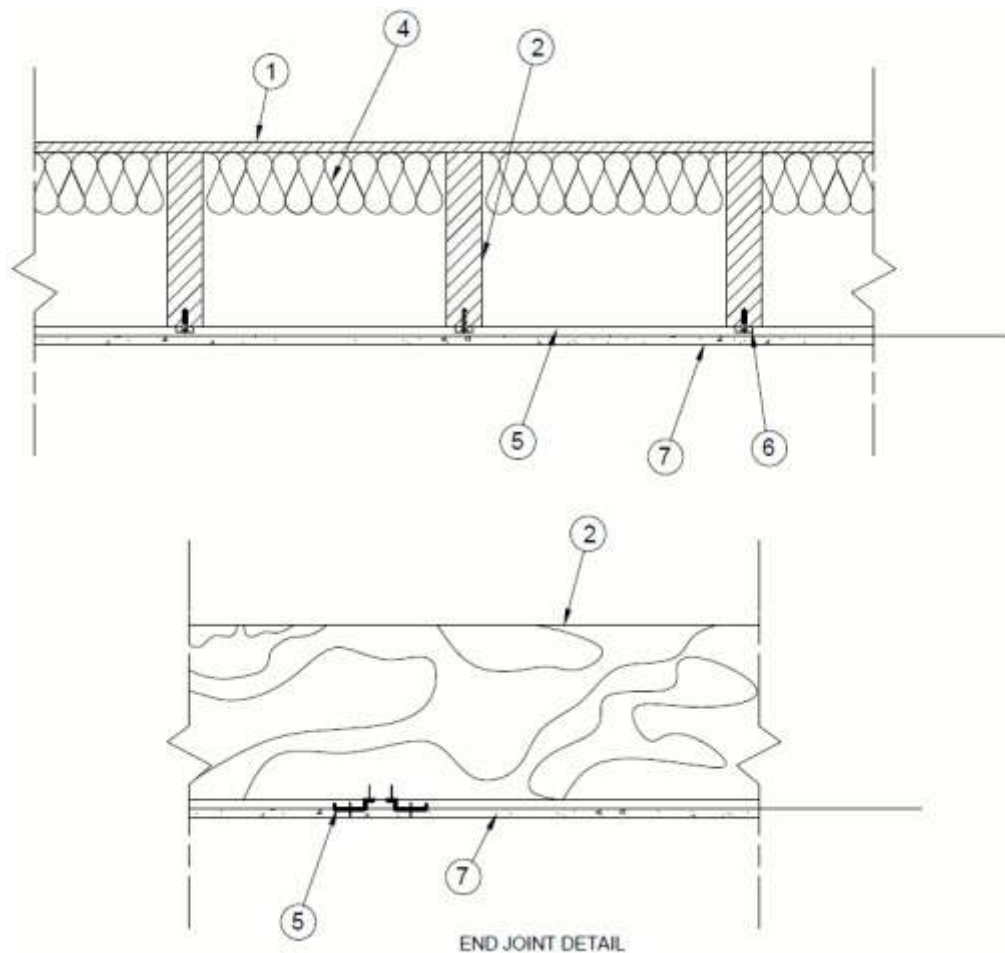
September 07, 2018

Unrestrained Assembly Rating - 1 Hr.

Finish Rating - 30 minutes

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. **Flooring** — Min 19/32 thick wood structural panels, min grade "Underlayment" or "Single-Floor." Face grain of plywood or strength of axis of panels to be perpendicular to joists with joints staggered.

1a. **Flooring** — (Not Shown, Optional) — 1/4 in. thick gypsum board placed perpendicular to and on top of wood structural panels (Item 1). Gypsum board laid loosely or fastened.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-14

2. **Wood Joists** — 2 by 10 in. spaced 16 in. OC.

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

4. **Batts and Blankets*** — Glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. Insulation shall be a max of 3-1/2 in. thick and shall be secured against the underside of the subflooring with staples spaced 24 in. OC and placed down the center of the batt.

5. **Resilient Channels** — Formed from min 25 MSG galv steel spaced max 24 in. OC perpendicular to joists. Additional resilient channels used at butt joints and extend minimum 1 joist cavity at each edge of the gypsum board.

6. Framing Members* — A resilient sound isolation accessory shall be used at each attachment point of the resilient channels and spaced max 16 in. O.C. Channel ends butted and centered under the joists and attached to the joists with one accessory at each end. Additional accessories used to hold resilient channels that support the gypsum board end joints. The accessory envelops the mounting edge of the resilient channel. The accessory and resilient channel are fastened to the joists with the screws supplied with the accessory and per the accessory manufacturer's installation instructions.

ACOUSTIC PROPERTIES L L C — Types RC-1 Boost, RC Boost Deluxe C-D.

7. Gypsum Board* — Nom 3/4 in. thick, 48 in. wide gypsum board. Gypsum board installed with long dimension perpendicular to resilient channels and side edges located between joists. Secured with 1-1/8 in. long bugle head, high-low thread steel screws spaced max 12 in. OC. End joints of gypsum board similarly fastened to additional resilient channels positioned at end joint locations. Screws shall be spaced 2 in. from end joints and 1 in. from side joints. Adjacent end joints staggered min 72 in.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13.

8. Finishing System- — (Not Shown) — Paper tape embedded in joint compound over joints and covered with 2 layers of compound with edges feathered out. Gypsum board screw heads covered with 2 layers of compound.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2018-09-07

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.
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The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Certified and covered under UL's Follow-Up Service. Always look for the Mark on the product.

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