



BXUV.L602

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. L602

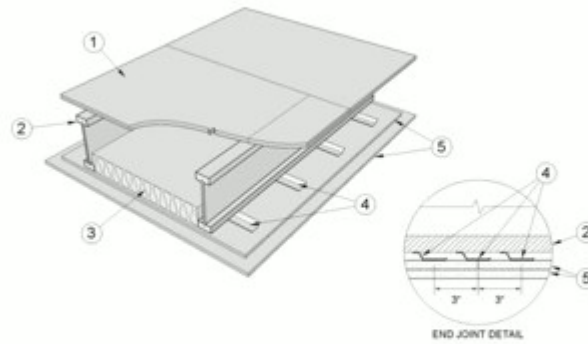
September 22, 2021

Unrestrained Assembly Rating — 1 Hr

Finish Rating — 55 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.**



System No. 1

1. **Building Units*** — Nom 3/4 in. thick. Long dimension of panels to be perpendicular to trusses with end joints staggered a min of 4 ft. and joints centered over the trusses. Panels secured to wood trusses with 2 in. x 0.113 in. Ring Shank nails spaced a max of 12 in. OC in the field and on the perimeter. Nails located 2 in. from side edges, and 1/2 in. from butt joint edges.

HUBER ENGINEERED WOODS L L C — Type 3/4 in. Tongue and Groove Exacor™ Board

System No. 2

Subflooring — Min 23/32 in. thick T & G wood structural panels, min grade "Underlayment" or "Single-Floor". Face grain of plywood or strength axis of panels to be perpendicular to the wood joists with end joints staggered 4 ft. Panels secured to trusses with construction adhesive and No. 6d ringed shank nails spaced 12 in. OC along each truss. TetraGRIP™ nails measuring 2-3/8 in. long, 0.113 in. diameter, 0.272 in. round head, and helically threaded shank with barbed features on the helix meeting ASTM F1667 and having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

Finish Floor - Building Units* — Min 1/2 in. thick magnesium oxide panels installed parallel, perpendicular, or diagonally to trusses with panel edges offset a min of 4 in. between subfloor and magnesium oxide panels. Panels secured to subfloor with construction adhesive and corrosion resistant fasteners, spaced 12 in. OC around the perimeter and in the field of the panel. Fasteners must be placed no closer than 1/2 in. from all panel edges and no closer than 2 in. from panel corners

HUBER ENGINEERED WOODS L L C — Type 1/2 in. Square Edge Exacor™ Board

2. **Structural Wood Members** — Min 9-1/2 in. deep "I" shaped wood joists spaced at a max of 24 in. OC. Joists shall conform to ICC-ES ESR-1153 Report. Joist top and bottom chords minimum 1-3/8 in. deep by 1-3/4 in. wide and constructed of either Microllam laminated veneer lumber (LVL) or TimberStrand laminated strand lumber (LSL). Webs constructed of minimum 3/8 in. thick Performance Plus OSB, PS2, Exposure 1. Installation shall be in accordance with manufacturers published literature.

3. **Batts and Blankets*** — 3-1/2 in. thick, min 0.62 pcf glass fiber batt insulation draped over the resilient channels. Any glass fiber batt insulation bearing the UL Classification Marking for Surface Burning Characteristics or Fire Resistance may be used. See **Batts and Blankets* (BKNV or BZJZ)** category in the Fire Resistance Directory for names of manufacturers.

4. **Resilient Channels** — Formed from min 25 MSG galv steel, 1/2 in. deep, spaced max 12 in. OC, installed perpendicular to trusses. Channels secured to each truss with one #6 1-5/8 in. long coarse thread drywall screws. Channels overlapped 4 in. at splices under the trusses. Additional channels installed 3 in. from board end joints on each layer and secured to adjacent trusses.

5. **Gypsum Board** — First layer of gypsum board installed parallel to the I-joists with long joints offset 4 in. from the bottom of the I-joists with butt joints offset 21 in. in adjacent rows. First layer of gypsum board fastened to resilient channels with 1 in. long Type S

drywall screws spaced 12 in. OC in the field and 8 in. OC at the perimeter, located 1 in. from the side edge, and 3 in. from the butt joint edge of the board.

Second layer of gypsum board installed parallel to the joists with long joints offset 24 in. from the long joints of the first layer and butt joints staggered 21 in. from the butt joints of the first layer. Second layer of gypsum board fastened to the resilient channels with 1-5/8 in. long Type S drywall screws spaced 8 in. OC at the perimeter and in the field, located 1 in. from the side edge, and 3 in. from the butt joint edge of the board. Additionally, 1-1/2 long Type G screws installed 1-1/2 in. from the butt joints, spaced 8 in. OC.

*Any nom. 5/8 in. thick, 4 ft. wide, UL Classified (For Fire Resistance) Gypsum Board, covered for use in Design No. G512. See category CKNX for names of manufacturers.

7. **Finishing System** — Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads. Nom 2-1/16 in. wide mesh tape 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 gypsum board.

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Last Updated on 2021-09-22

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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