

BCD, LLC

Building Component Development

55 Woodrock Rd., Bay 9
E. Weymouth, MA 02189
781-803-3382
sales@HushFrame.com



High Performance Wood Truss Floor/Ceiling Assembly

BXUV.M565
Fire-resistance Ratings - ANSI/UL 263

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

Design No. M565

December 02, 2021

Unrestrained Assembly Rating 1Hr
Finish Rating 64 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 [BXUV.7](#)

1 Hour Fire

FRAMING MEMBERS
FIRE RESISTANCE CLASSIFICATION
DESIGN NO. M565
SEE UL FIRE RESISTANCE DIRECTORY
<R39523>

STC 61

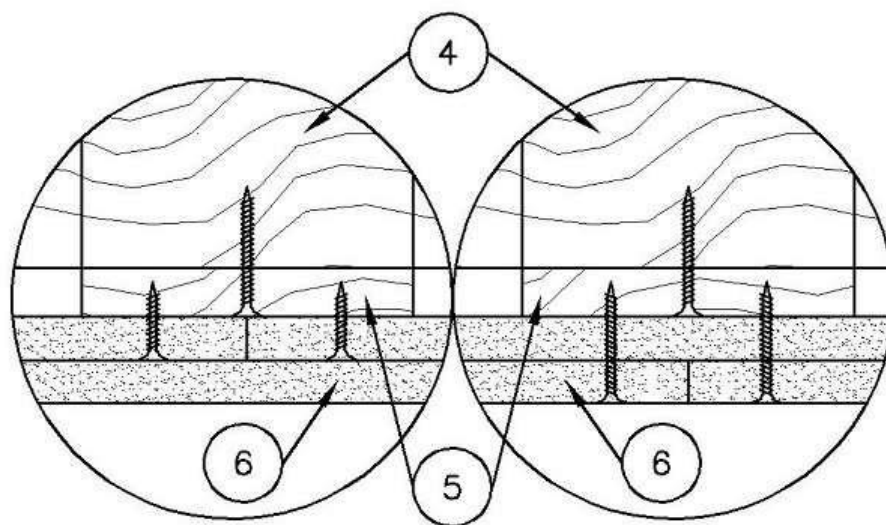
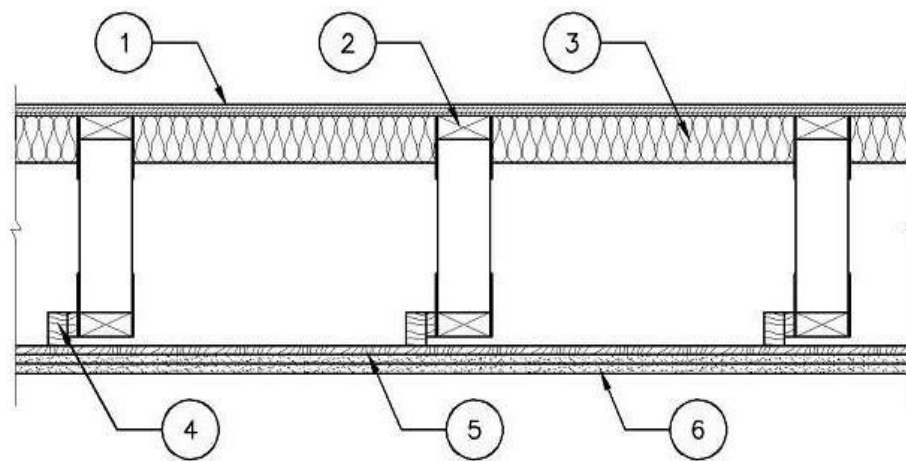
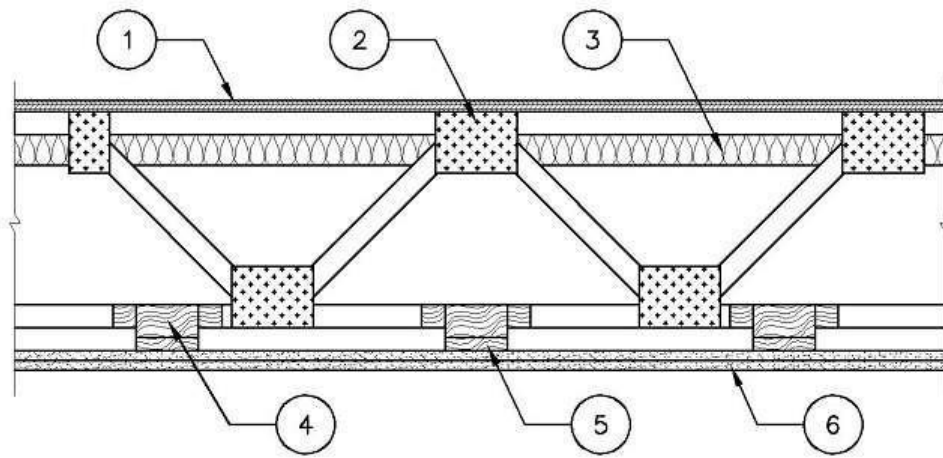
ALSO CERTIFIED IN ACCORDANCE WITH
ASTM E90, "STANDARD TEST METHOD FOR LABORATORY
MEASUREMENT OF AIRBORNE SOUND TRANSMISSION LOSS OF
BUILDING PARTITIONS AND ELEMENTS"
BY RIVERBANK ACOUSTICAL LABORATORIES

AND

IIC 56

ALSO CERTIFIED IN ACCORDANCE WITH
ASTM E492, "STANDARD TEST METHOD FOR LABORATORY
MEASUREMENT OF IMPACT SOUND TRANSMISSION
THROUGH FLOOR-CEILING ASSEMBLIES
USING THE TAPPING MACHINE"
BY RIVERBANK ACOUSTICAL LABORATORIES





Base Layer
End Joint Detail

Second Layer
End Joint Detail

1. Subflooring - Nom 23/32 in. thick wood structural panels installed perpendicular to trusses with end joints staggered 48 in. Plywood or panels secured to trusses with construction adhesive and No. 6d ringed shank nails, spaced 12 in. OC along each truss. Staples having equal or greater withdrawal and lateral resistance strength may be substituted for the 6d nails.

2. Trusses - Parallel chord trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Min truss depth is 12 in. Truss members secured together with min 0.0356 in. thick galv. steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate.

3. Batts and Blankets * - Glass fiber insulation, having a minimum density of 0.45 pcf, bearing the UL Classification. Marking as to Surface Burning Characteristics and/or Fire Resistance. Min 6-1/4 in. thick with no limit on the overall thickness. Insulation shall be secured against the underside of the subfloor and held in place with 0.09 inch steel insulation rod spaced 12 inch on center.

4. Framing Members* - Used to attach furring strips (Item 5) to trusses (Item 2). Rafts secured to every truss, 48 inch on center, and staggered 24 inches on adjacent trusses. Secured with two 1-5/8 inch course thread drywall screws, one on each side of the core. Fasteners should not be placed closer than 1/4 inch to the edges of the mounts. Additional Rafts, spaced 24 in. OC, may be required to support the ends of Furring Strips (Item 5), at the perimeter of a room.

BCD LLC - HushFrame Raft Connectors

5. Furring Strips - Nominal 1 in. deep by 3 in. wide wooden furring strips, spaced 24 in. OC perpendicular to wood structural members. Furring secured with one 2 in. long, Type W bugle head screw into the rafts. Ends of adjoining furring butted, between trusses, and joined with an overlapping 12 in. furring strip fastened with two 1-5/8 in. long Type W screws equally spaced on both sides of the butt joint.

6. Gypsum Board* - Two layers of nom 5/8 in. thick, 4 ft wide gypsum panels. Gypsum panels installed with long dimension perpendicular to wood furring strips. Base layer gypsum board butt end joints offset 72 in., long edge centered between trusses, and secured with 1-1/4 in. long Type W bugle head steel screws spaced 8 inch OC along the end joints and 12 inch on center in the field of the panel. Butt end joints secured to furring strips as shown in end joint detail. Outer layer gypsum board butt end and side joints offset from the base layer joints by 24 in. and secured with 2 in. long Type W bugle head steel screws spaced 8 in. OC along the end joints and 12 inch on center in the field of the panel. Butted end joints shall be positioned to end on a furring strip as shown in end joint detail. Fasteners located 3/8 in. from butt edge and 1 in. from side edge. Outer layer shall be finished as described in Item 7.

NATIONAL GYPSUM CO - Type FSW-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

* 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 2021-12-02

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