

# BXUV.P528 Fire Resistance Ratings - ANSI/UL 263

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## Fire Resistance Ratings - ANSI/UL 263

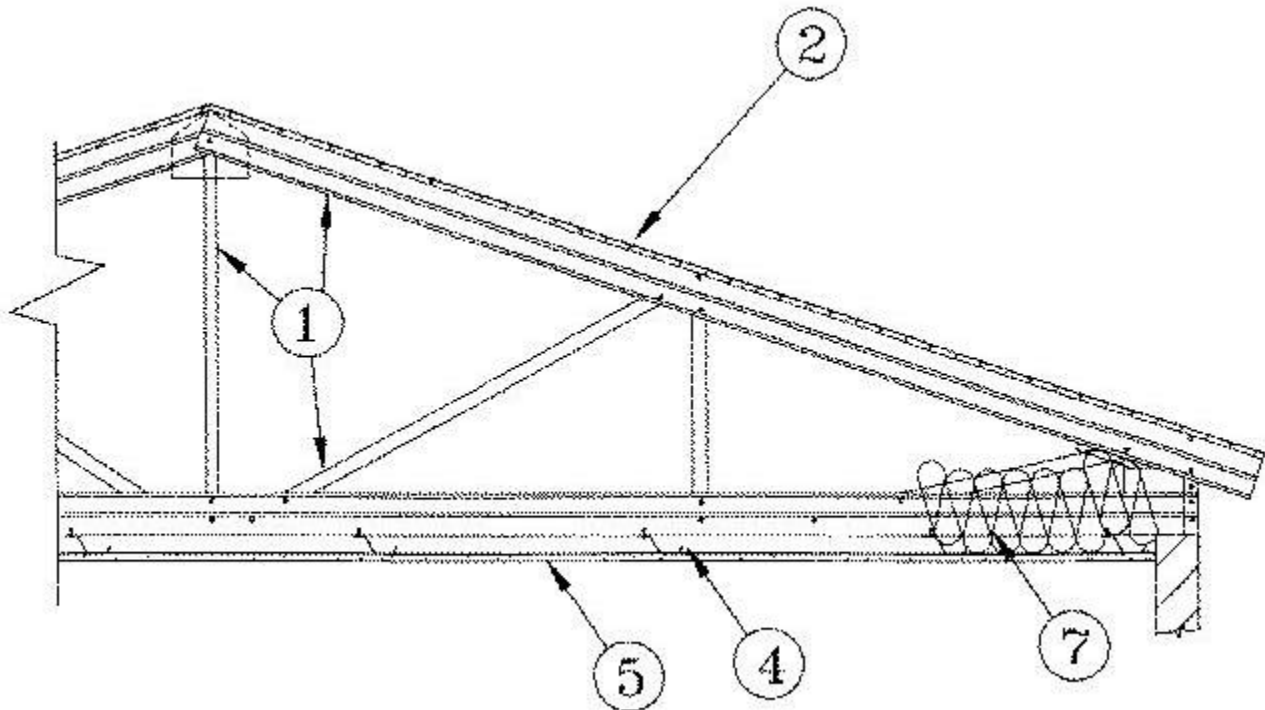
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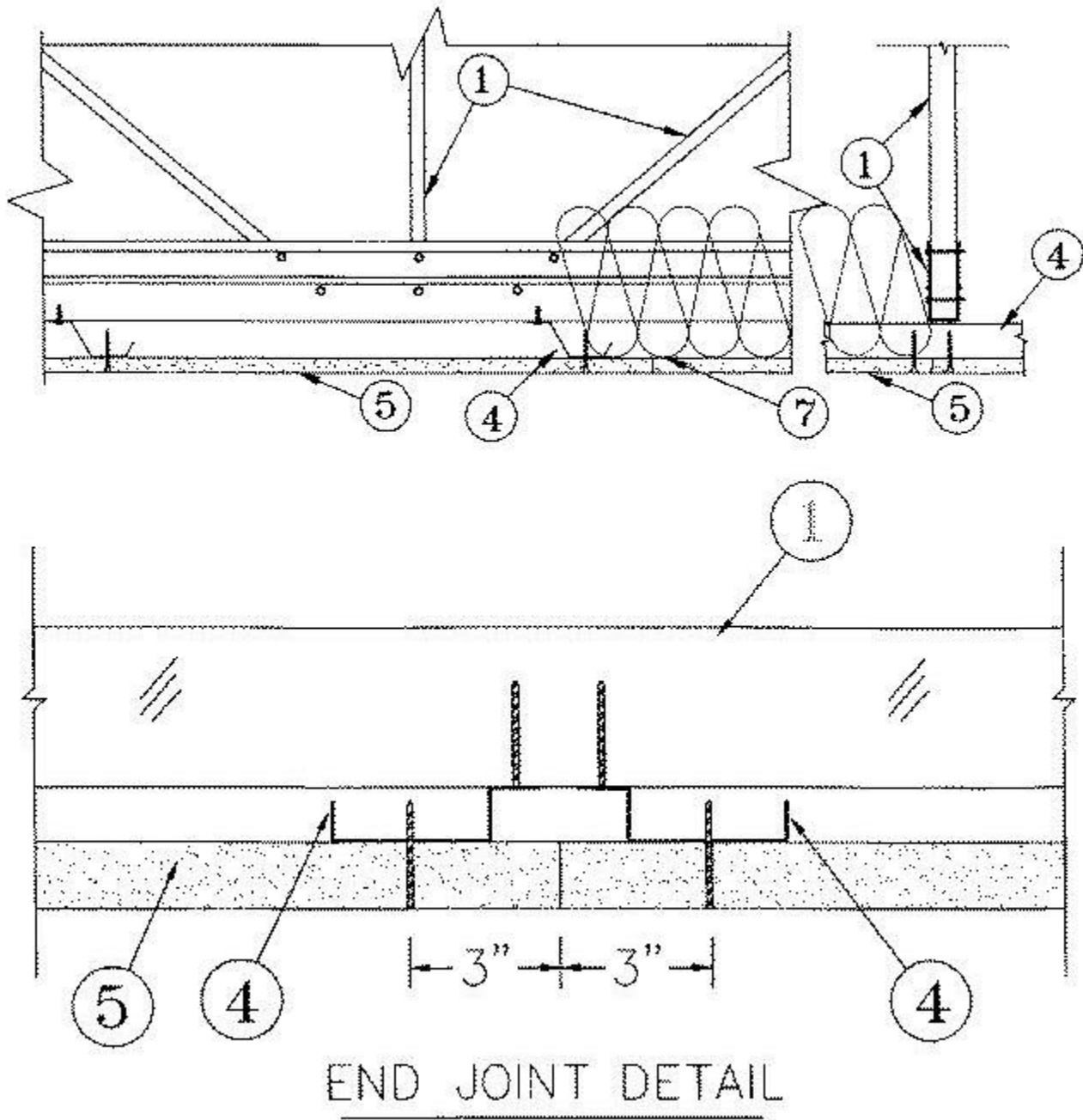
**Design No. P528**

December 06, 2000

**Restrained Assembly Rating-1 Hr**

**Unrestrained Assembly Rating-1 Hr**





1. **Structural Steel Members\*** Pre-fabricated light gauge steel truss system consisting of cold-formed, galvanized steel chord and web members. Trusses fabricated in various sizes, depths, and from various steel thickness. Trusses spaced a max of 24 in. or 48 in. O.C. (See Items 2 and 7).

**ALLIED STUDCO** — Amkey System, Pre-fabricated Light Gauge Steel Truss System

2. **Roof System\*** (Not Shown) — Any UL Class A, B, or C Roofing System (TGFU) or Prepared Roof Covering (TFWZ) acceptable for use over nom 23/32 in. thick plywood sheathing. Nom 23/32 in. thick plywood sheathing mechanically

fastened to top chord of steel trusses with fasteners spaced a max of 12 in. O.C. As an option, the plywood decking may be installed to min 20 ga. steel purlins or steel hat channels. Steel purlins or hat channels to be spaced a max 24 in. O.C. and welded or mechanically fastened, transverse to steel roof trusses (Item 1). As an alternate, plywood sheathing may be reduced to 15/32 in. when Item 1 is spaced 24 in. O.C. and a min of 9-1/2 in. thickness insulation (Item 7) is used.

**2A. Steel Roof Deck** (Not Shown) —In lieu of, or in addition to the plywood decking described in Item 2, the steel roof deck may consist of corrugated or fluted steel form units, min 9/16 in. deep, 22 MSG painted or galv steel, welded or mechanically fastened at a max 12 in. O.C. to the top chord of the roof trusses (Item 1).

**3. Vapor Barrier** (Not Shown)—Optional—Commercial asphalt saturated felt, 0.030 in. thick, applied over the plywood.

**4. Resilient Channels** Formed of 25 MSG galv steel, installed perpendicular to the steel trusses (Item 1), spaced a max of 16 in. O.C. when no insulation (Item 7 or 7A) is fitted in the concealed space, or a max of 12 in. O.C. when insulation (Item 7 or 7A) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. Two courses of resilient channel positioned 6 in. O.C. at gypsum board butt-joints (3 in. from each end of gypsum board). Channels oriented opposite at gypsum board butt-joints. Channel splices overlapped 4 in. beneath steel trusses. Channels secured to each truss with Type S12 by 1/2 in. long screws.

**5. Gypsum Board\*** One layer of nom. 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to trusses. Attached to the resilient channels using 1 in. long Type S bugle-head screws. Screws spaced a max of 12 in. O.C. along butted end-joints and in the field when no insulation (Item 7 or 7A ) is fitted in the concealed space or a max of 8 in. O.C. along butted end-joints and in the field when insulation (Item 7 or 7A ) is fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane.

**CANADIAN GYPSUM COMPANY** — Types C, IP-X2, IPC-AR.

**UNITED STATES GYPSUM CO** — Types C, IP-X2, IPC-AR.

**YESO PANAMERICANO S A DE C V** — Types C, IP-X2, IPC-AR.

**6. Finishing System** (Not Shown)—Vinyl, dry or premixed joint compound, applied in two coats to joints and screw-heads; paper tape, 2 in. wide, 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.

**7. Batt and Blankets\*** Mineral wool or glass fiber insulation bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread

value of 25 or less and a smoke spread value of 50 or less. Insulation fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. Min. 9-1/2 in. thickness required when 15/32 in. thick plywood sheathing is used (Item 2) or optional when used at any thickness and with 23/32 in. thick plywood sheathing (Item 2).

**7A. Loose Fill Material\*** As an alternate to Item 7 — Loose fill material bearing the UL Classification Marking for Surface Burning Characteristics, having a flame spread value of 25 or less and a smoke spread value of 50 or less. Loose fill material fitted in the concealed space, draped over the resilient channel/gypsum board ceiling membrane. Min 9-1/2 in. thickness required when 15/32 in. thick plywood sheathing is used (Item 2) or optional when used at any thickness and with 23/32 in. thick plywood sheathing (Item 2).

**8. Bridging** (Not Shown)—Location of lateral bracing for truss chord and web sections to be specified on truss engineering.

**Alternate Ceiling Membrane — Not Shown** Not for use when insulation (Item 7 or 7A) is used.

## 9. Steel Framing Members

a. **Main Runners** Installed perpendicular to Structural Steel Members, - Nom 12 ft long, 15/16 in. or 1-1/2 in. wide face, spaced 4 ft OC. Main runners hung a min of 2 in. from bottom chord of Structural Steel Members with 12 SWG galv steel wire. Wires located a max of 48 in. OC.

b. **Cross tees or channels** Nom 4 ft long, 15/16 in. or 1-1/2 in. wide face, or cross channels, nom 4 ft long, 1-1/2 in. wide face, installed perpendicular to the main runners, spaced 16 in. OC. Additional cross tees or channels used at 8 in. from each side of butted wallboard end joints. The cross tees or channels may be riveted or screw-attached to the wall angle or channel to facilitate the ceiling installation.

c. **Wall angles or channels** Used to support steel framing member ends and for screw-attachment of the gypsum wallboard - Painted or galvanized steel angles with 1 in. legs, or channels with 1 in. legs and 1-9/16 in. deep, attached to walls at perimeter of ceiling with fasteners 16 in. OC.

### CGC INTERIORS, DIV OF

CGC INC — Type DGL or RX

USG INTERIORS INC — Type DGL or RX

**10. Gypsum Board\*** For use with Steel Framing Members (Item 9) - One layer of nominal 5/8 in. thick by 48 in. wide boards, installed with long dimension parallel to the main runners. Wallboard fastened to each cross tee or channel with five wallboard screws, with one screw located at the midspan of the cross tee or channel, one screw located 12 in. from and on each side of the cross tee or channel mid span, and one screw located 1-1/2 in. from each wallboard side joint. Except at wallboard end joints, wallboard screws shall be located on alternating sides of cross tee flange. At wallboard end joints, wallboard screws shall be located 1/2 in. from the joint. Wallboard fastened to main runners with wallboard screws 1/2 in. from side joints, midway between intersections with cross tees or channels (16 in. OC). End joints of adjacent wallboard sheets shall be staggered not less than 32 in. Wallboard sheets screw attached to leg of wall angle with wallboard screws spaced 12 in. OC. Joints treated as described in Item 6.

**CANADIAN GYPSUM COMPANY** — Type C, IP-X2, IPC-AR

**UNITED STATES GYPSUM CO** — Type C, IP-X2, IPC-AR

**YESO PANAMERICANO S A DE C V** — Type C, IP-X2, IPC-AR

\*Bearing the UL Classification Mark

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