ONLINE CERTIFICATIONS DIRECTORY

Design No. P732
BXUV.P732
Fire Resistance Ratings - ANSI/UL 263

Floor Rankings

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted or left closed as to the particular requirements covering the installation and use of UL Certified products, equipment, systems, devices, and assemblies.
- 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. When field conditions require deviations from the tested assemblies, the submitter should be consulted for recommendations. It is recommended that the submitter be retained to provide technical assistance during construction. Where it is not practical to employ the services of the submitter because staff is not available for the work, it is recommended that the authorities having jurisdiction require that the work be done by an installer knowledgeable with the systems or products involved. Such installers frequently can be employed through companies specializing in fire protection work. Information on how to obtain the services of such companies can be obtained from various trade organizations, such as the National Fire Protection Association, Inc., 470 Atlantic Avenue, Boston, MA 02210, or the Association of the Wall and Ceiling Industry-International, 513 West Broad Street, Falls Church, VA 22046.
- Only products which bear UL's mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

Design No. P732

July 01, 2014

Restrained Assembly Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 20)

Unrestrained Assembly Ratings — 3/4, 1, 1-1/2, 2 or 3 Hr (See Item 10)

Unrestrained Beam Ratings — 1, 1-1/2, 2 or 3 Hr (See Item 10)

Restricted Load Condition — See Items 1 and 19C

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, a Restriction factor shall be used — See Guide R19ZW or R19ZW7.

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

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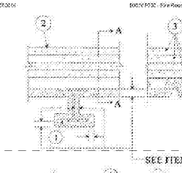
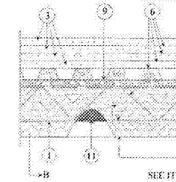


SEE ITEM 10



1. **Beam** — Min width of 152.4 mm (6 inch) nominal width of a steel wide flange shape of 70.000 psi or 482.6 or 1000 N/mm sq. yield strength and a minimum tensile strength of 84,000 psi.

2. **Roof Covering*** — Consisting of built-up roofing or cold application bituminous materials compatible with the insulation as described herein which shall conform Class A, B or C classified. See Roofing Materials and Systems Directory - Roof Covering Materials (TFGU).

2A. **In lieu of Item 2, roof covering consisting of single-ply Roofing Membranes*** — Shall be either ballasted, adhered or mechanically attached in accordance with the requirements of the Roofing Materials and Systems Directory - Roof Membranes (TFGU).

3. **Metal Roof Deck Panels*** — (Not shown) — In addition to or in lieu of Items 2 or 2A, the roof covering may consist of a corrugated galvanized steel roof deck panel assembled. See Fire Resistance Directory - Metal Roof Deck Panels (TFGU).

4. **Roof Insulation — Foamed Plastic** — Polyisocyanurate foamed plastic insulation boards nom 16 or 19 mm (5/8 or 3/4 in.) to be applied in one or more layers. Boards are to be installed with end joints staggered a min of 6 in. No thickness shall be limited by the Restrained Assembly Rating.

Restrained Assembly Rating Hr	Min Insulation Thickness, in.	
	With Gypsum Wallboard	Without Gypsum Wallboard
1	1	1
1-1/2	1-1/2	1
2	1-1/2	1-1/2
3	2	2

5. **Roof Insulation — Mineral and Fiber Boards*** — As an alternate to Item 4, the insulation shall consist of one or more layers of mineral wool or glass fiber boards. Boards are to be installed with end joints staggered a min of 6 in. No thickness shall be limited by the Restrained Assembly Rating.

Restrained Assembly Rating Hr	Min Insulation Thickness, in.	
	With Gypsum Wallboard	Without Gypsum Wallboard
1	1	1
1-1/2	1-1/2	1
2	1-1/2	1-1/2
3	2	2

6. **Adhesive* — (Optional)** — The cover boards, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel joist surface. Also used to secure the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and the roof deck units. Vapor barrier adhesive shall be applied at the rate of 1.5 gal per 100 sq ft. See Adhesives (BRWH) category for names of manufacturers.

6A. **Adhesive* — (Optional)** — Laminate the UL Classification Marking for Roof Insulation (TGFU). When FAST 125 adhesive is used, the Unrestrained Assembly Ratings are limited to 1, 1-1/2 and 2 hr. The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with FAST 125 adhesive. The second layer of roof insulation shall be secured to the vapor retarder to gypsum wallboard with FAST 125 adhesive. Minimum density of 3.6 kg/m cu (225 kg/cu m) foam insulation board shall be used with FAST 125 adhesive. Maximum density of 3.6 kg/m cu (225 kg/cu m) foam insulation board shall be used with FAST 125 adhesive. When FAST 125 adhesive is used, additional **Spray-Applied Fire Resistive Materials* (CHPI)** is required to achieve the ratings for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the first shall be increased by 2.5 mm (1/10 in.) for Unrestrained Assembly Rating and 5.1 mm (1/5 in.) for Unrestrained Assembly Rating.

7. **Asphalt or Coal Tar Pitch*** — (Optional) — The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with asphalt or coal tar pitch to the steel joist surfaces at a max rate of 15 lbs/100 sq ft. Also used to attach the vapor retarder, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of roof insulation. Applied at a max rate of 25 lbs/100 sq ft.

8. **Mechanical Fasteners — (Optional)*** — (Not shown) — Mechanical fasteners of the corrosion resistant type designed for the purpose may be used to attach one or more layers of insulation to steel roof decks.

9. **Steel Roof Deck** — (Unclassified) — Min 0.76 mm (0.03 in.) wide galvanized steel units with 38 mm (1-1/2 in.) min bearing on steel supports. Side laps fastened with 12.7 mm (1/2 in.) long crimped seam. Side laps fastened with 12.7 mm (1/2 in.) long welds, self-tapping steel screws spaced a max of 76 mm (3) apart. **Classified Steel Floor and Form Units*** — Noncomposite, 0.122 to 1 in. deep, 36 to 36 in. wide, min 22 MSG galvanized steel floor units. Ends unsupported or supported a min 1-1/2 in. and welded to supports 12 in. OC and at side laps. Side laps fastened with 3/4 in. long min 12 ga drilling, self-tapping steel screws at 36 in. OC. As alternate to screw fastened sidelaps, units may be interlocking/nested or welded together 36 in. OC along side joints.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — Types 6in 36, 8in36, 3WN.95-1/4, 3126.36, 6-36, 8in 36, 9in 36, 9in36, 9in38, 9in 39, 9in40, 9in 41, 9in42 and 9in 43. Units have tie bar continuity or Prime Shield™. Non-cellular decks may be noted designated with a "B" suffix in the product name.

CANAM STEEL CORP — Type B, F, N. Units have tie bars and/or straps.

CANAM STEEL CORP — Types B, F, N. Units have tie bars, plus or straps.

http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/showpage.html?name=BXUV.P732&compactview=true&firstview=true&scope=&range=&sindex=&nphits=&ssort=&sterm=&orterm=&rorterm=&nterm=&pterm=&cterm=&eterm=&wterm=&showrationale=&showallcategories=&showallcategories=&showallcategories