UL Product iQ™

BXUV.D989 - FIRE-RESISTANCE RATINGS - ANSI/UL 263

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

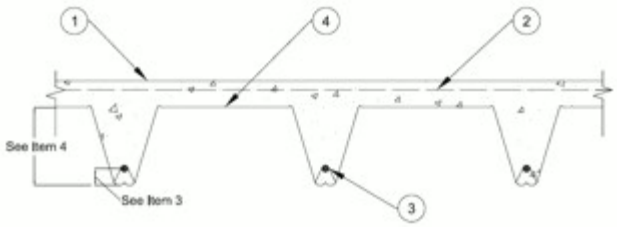
Design No. D989

October 29, 2018

Unrestrained Assembly Ratings - 1, 1-1/2 or 2 Hr. (See Item 4)

Loading determined by Allowable Stress Design Method or Load and Resistance Factor Design Method published by the American Institute of Steel Construction, or in accordance with the relevant Limit States Design provisions of Part 4 of the National Building Code of Canada — 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. **Normal Weight or Lightweight Concrete —** Normal weight concrete, carbonate or siliceous aggregate, 150 (+ or - 3) pcf unit weight. Lightweight concrete - expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grade method, vibrated, 4 to 7 per cent entrained air, 110 (+ or - 3) pcf unit weight. Min. concrete compressive strength 4000 psi. See Item 4 for thicknesses.

2. **Welded Wire Fabric —** 6 X 6 - Min wire thickness W2.9 X W2.9.

2A. **Re-bars —** As an alternate to Item 2, max # 4 bars spaced 12-in. OC in both directions shall be used. When re-bars are used, the concrete slab thickness shall be increased a minimum 5/16 in.

3. **Rib Reinforcement —** Steel reinforcement designed in accordance with ACI 318 latest specifications. Min. #4 rebar. Min concrete cover below the steel reinforcement shall be 1-9/16 in. Reinforcement support chairs spaced at max 41-1/2 inches OC.

4. **Steel Floor and Form Units* —** Nom 4-3/4, 8 or 9 in. deep composite, galv steel units. Min thickness 0.0375 inch (20 MSG). Side joints of adjacent units fully overlapping, fastened together by using 1-1/4 in. long self-drilling, self-tapping steel screws driven through Shear-Bond Clips (not shown) at 13-3/4 in. OC. Steel end closures flashings (not shown) made of min 0.056 inch thick (16 MSG) galv steel, fixed to the steel work before decking is placed. Consult the deck manufacturer for comprehensive load tables and design parameters referencing this UL Design.
BAILEY METAL PRODUCTS LTD — Types COMSLAB™ 120, COMSLAB™ 210, or COMSLAB™ 225

Unrestrained Rating, Hr	**2**	**2**	**1-1/2**	**1**
Concrete Topping, from Deck Crests, in.	4-1/4	3-1/4	3-9/16	2-1/2
Concrete Type	NW	LW	NW	NW or LW
COMSLAB Deck Type (s)	120, 210, 225	120, 210, 225	120, 210, 225	120, 210, 225

* 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 2018-10-29