



BXUVC.F918 Fire-resistance Ratings

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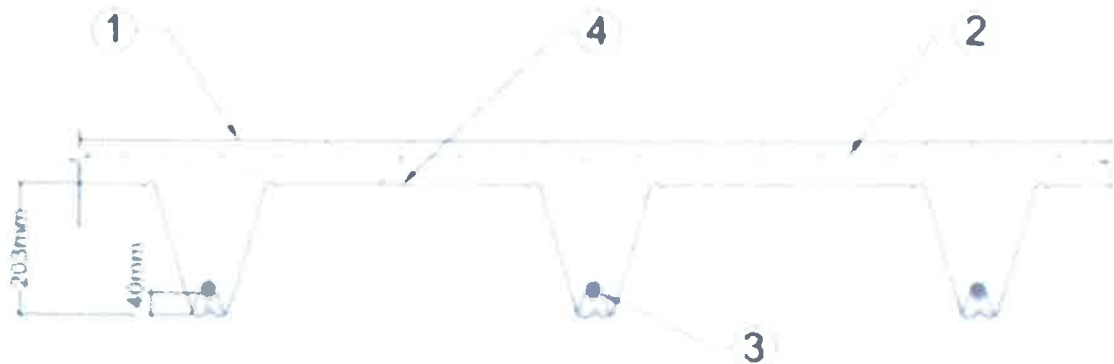
BXUVC - Fire-resistance Ratings

[See General Information for Fire-resistance Ratings](#)

Design No. F918

November 20, 2015

Unrestrained Assembly Rating - 2 Hr.



- **1. Normal Weight Concrete** — Normal weight concrete, carbonate or siliceous aggregate, $2400 \pm 50 \text{ kg/m}^3$ unit weight, min. compressive strength 30 MPa, vibrated. Min concrete topping thickness 110 mm as measured from the crest of the floor units.
- **1a. Lightweight Concrete** — $1750 \pm 50 \text{ kg/m}^3$ unit weight, expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grade method, min. compressive strength 30 MPa, vibrated, 4 to 7 per cent entrained air. Min concrete topping thickness 83 mm as measured from the crest of the floor units.
- **2. Welded Wire Fabric** — 152 by 152 - Min wire thickness MW 18.7 / MW18.7 steel wire mesh.
- **3. Rib Reinforcement** — Min 10 mm deformed bar. Concrete cover below the steel reinforcement shall be 40 mm minimum. Chairs spaced max 1055 mm OC.
- **4. Steel Floor Units (CHWXC)** — Composite, galv steel units. Min thickness 0.953 mm (20 MSG). Side joints of adjacent units fully overlapping, fastened together by using 30 mm. long self-drilling, self-tapping steel screws driven through Shear-Bond Clips (not shown) at 350 mm. OC. Steel end closures flashings (not shown) made of min thickness 1.37 mm (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 — Type COMSLAB™ 210

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