

BXUVC.D500 Fire-resistance Ratings

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Fire-resistance Ratings

See General Information for Fire-resistance Ratings

Design No. D500

February 21, 2014

Restrained Assembly Rating - 2 h

Unrestrained Assembly Rating - 1-1/2 h or 2 h (See Item 4)



BUTT-END JOINT DETAIL

1. **Normal-Density Concrete** — Normal-density concrete of $2400 \pm 50 \text{ kg/m}^3$ density and nominal 30 MPa compressive strength. Minimum concrete topping of 90 mm as measured from the top plane of the Steel Floor Units.

2. Wire Fabric – 152 by 152 Min wire thickness MW18.7/MW18.7 welded steel wire mesh.

3. **Rib Reinforcement** — Steel reinforcing bar having a minimum yield strength of 400 MPa sized in accordance with deck manufacturer's load tables to meet structural requirements. Rebars to be adequately supported during construction to provide a minimum 40 mm concrete cover.

4. **Steel Floor Units** — (CHWXC). Composite, galvanized steel fluted units, with minimum design thickness of 0.953 mm and yield strength of 280 MPa. Adjacent units fastened at the bottom of common flute at 350 mm OC with side lap washers and 32 mm long self-drilling fasteners as per manufacturer's instructions. Shoring of the units during construction and end connection to independently fire rated structural supports as per manufacturer's instructions. Loading of the units to be in accordance with manufacturer's load tables based on simply supported conditions. For unit clear span of 10 m or less the unrestrained assembly rating is 2 h; for span greater than 10 m the unrestrained assembly



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