

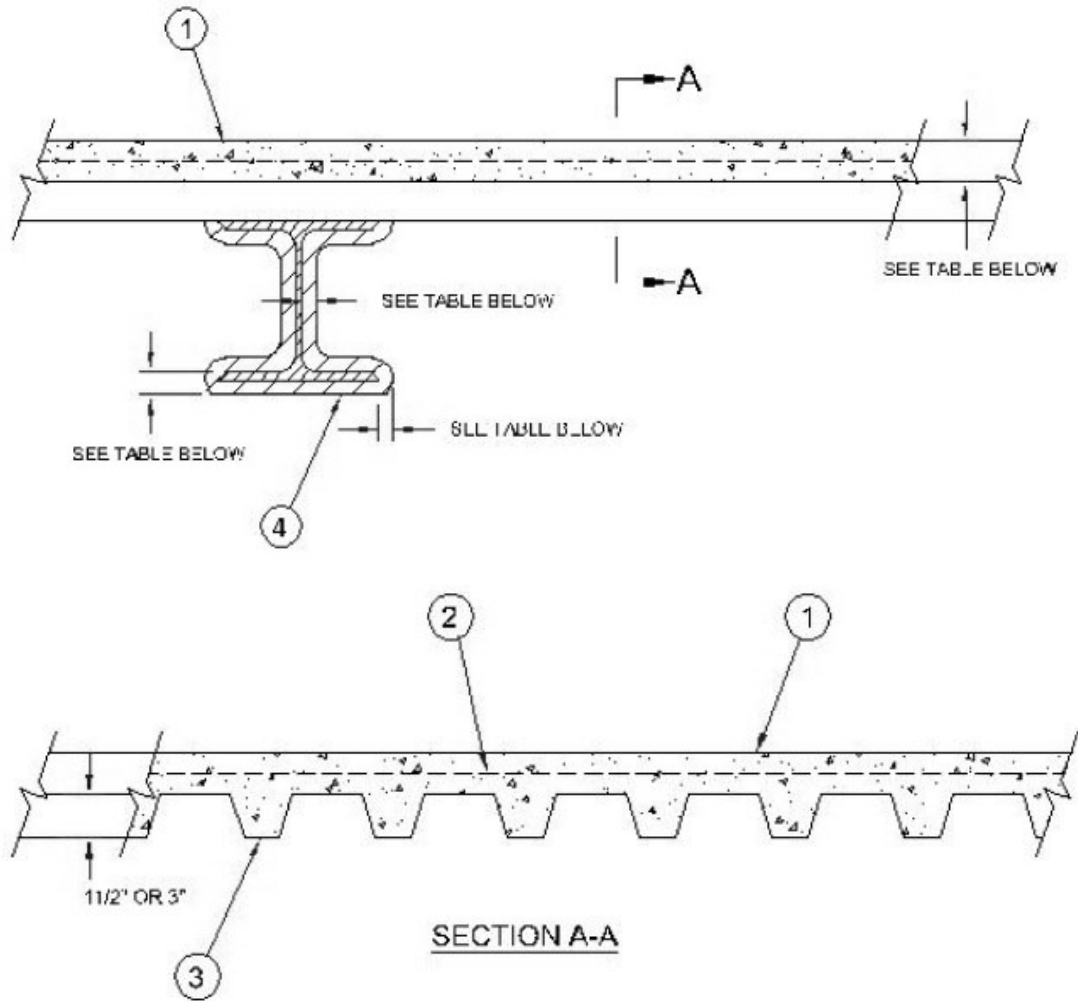
**Design No. D948**

May 31, 2007

**Restrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr (See Item 4)**

**Unrestrained Assembly Ratings — 0 Hr (See Item 3)**

**Unrestrained Beam Ratings — 1 and 1-1/2 Hr (See Item 4)**



**Beam** — W6x25, minimum size.

**1. Normal-Weight or Lightweight Concrete** — Normal-weight concrete, carbonate or siliceous aggregate, 3500 psi nominal compressive strength. Low-density concrete, expanded shale, clay or slate aggregate by rotary kiln method,  $110 \pm 3$  lb/ft<sup>3</sup> density, 3500 psi nominal compressive strength.

**2. Wire Wire Fabric** — 6 x 6- W1.4 x W1.4.

**3. Steel Floor Units\*** — Composite or noncomposite floor units. 22 MSG thick fluted sections, welded to supports with  $\frac{3}{4}$  in. puddle welds spaced 12 in. OC. Adjacent units button punched or welded 12 in. OC along side joints. When the maximum clear span of the steel floor units is less

than or equal to the tested span of 9 ft- 6 in., the unrestrained assembly rating is increased to 1 Hr and 1-1/2 Hr to match the unrestrained beam rating.

**DECK WEST INC** — 36 in. wide Type 3-DW.

**H H ROBERTSON** — Type QL-99, QL-WKX

**VULCRAFT, DIV OF NUCOR CORP** — 24 or 36 in. wide Types 3VLI and 3VLP.  
Phos/ptd Type 3VLI units.

**WHEELING-PITTSBURGH STEEL CORP, DIV**

**OF WHEELING CORRUGATING CO** — Type P31LF.

4. **Mastic Coating\*** — Mastic coating spray or brush applied in accordance with manufacturer's instructions to the minimum dry film thicknesses shown below:

Restrained Assembly Rating, Hr.	Unrestrained Assembly Rating, Hr.	Unrestrained Beam Rating, Hr.	Min Concrete Cover Thickness, in		Min Dry Thickness of A/D FIREFILM II or A/D FIREFILM III on Beam, mils
			Normal-Weight Concrete	Lightweight Concrete	
1	0 (see Item 3)	1	3-1/4	2-1/2	45
1-1/2	0 (see Item 3)	1	4	2-3/4	45
2	0 (see Item 3)	1	4-1/2	3-1/4	45
3	0 (see Item 3)	1-1/2	4-1/2	Not permitted	82

**A/D FIRE PROTECTION SYSTEMS INC** — Types "A/D FIREFILM II" and "A/D FIREFILM III" investigated for Conditioned Interior Space Purpose and Interior General Purpose

5. **Shear Connectors** — (optional) (not shown)— Studs 1/2 in. diam. by 4 in. long, headed type, or equivalent per A.I.S.C specifications. Welded to top flange of the beam through the deck for a maximum composite action of 40 percent between Steel Beam and Concrete. Shear studs are not permitted for Restrained Assembly Rating greater than 2 hour.

6. **Top Coat** — (not shown)—Finishing topcoat type "A/D Colorcoat" silicone alkyd paint applied at an approximate 0.002 in. dry film.

\*Bearing the UL Classification Mark