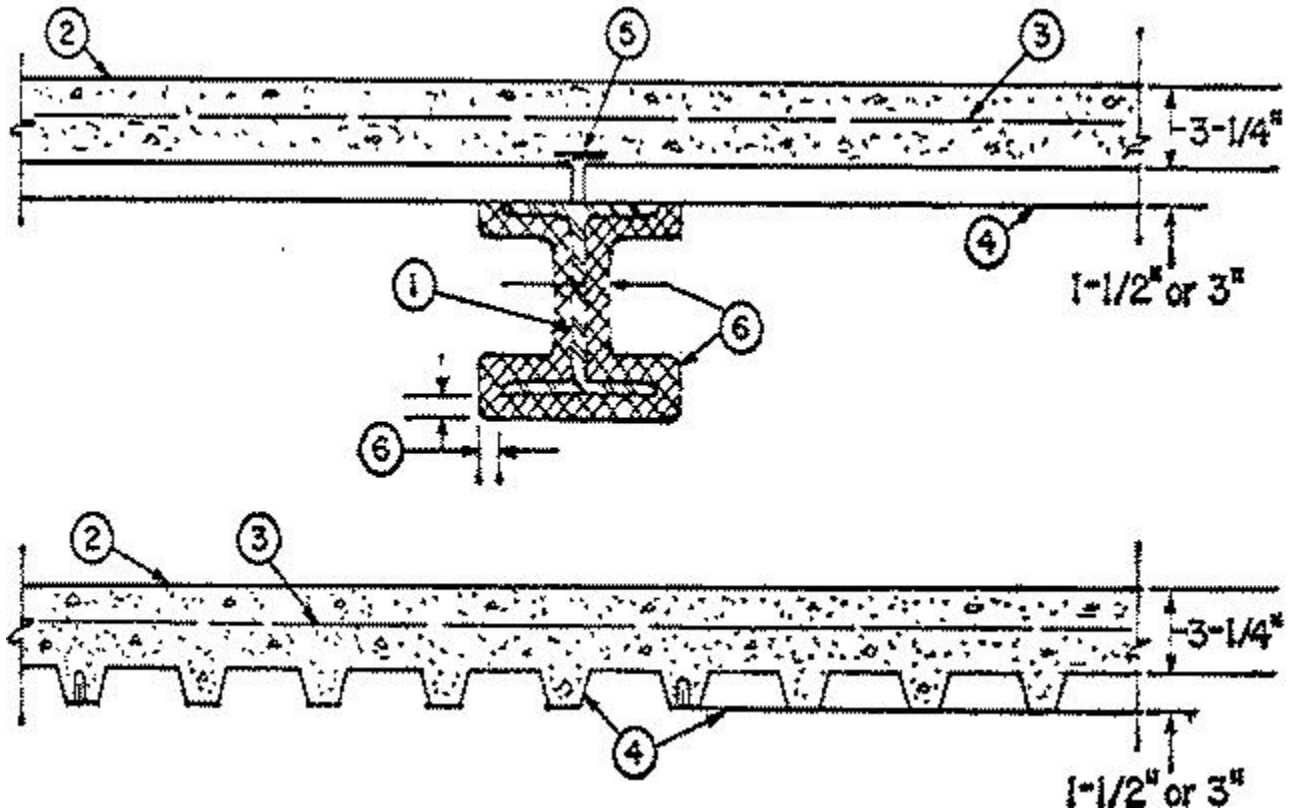


Restrained Assembly Rating — 2 Hr.

Unrestrained Assembly Rating — 0 Hr. (See Items 4 and 6)

Unrestrained Beam Ratings — 1 and 2 Hr. (See Item 6)



1. **Beam** — W8x17, min size. (W8x28, min size — See item 6)

2. **Lightweight Concrete** — Expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grate method, 110 pcf unit weight, 3000 psi compressive strength, vibrated, 4 to 7 percent entrained air.

3. **Welded Wire Fabric** — 6x6 — W1.4xW1.4.

4. **Steel Floor and Form Units*** — Composite 1-1/2, 2 or 3 in. deep galv units. Fluted units may be phosphatized/painted. The floor may consist of the following: (1) All 24, 30 or 36 in. wide, 22 MSG min fluted units, (2) All 24 or 30 in. wide, 20/20 MSG min cellular units, or (3) Any blend of above fluted and cellular units. 24 or 36 in. wide units welded to supports 12 in. OC, 30 in. wide units welded at each side joint and 12 in. from each side joint. Unless noted otherwise, adjacent units button-punched or welded together 36 in. OC along side joints.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

CONSOLIDATED SYSTEMS INC — 24 or 36 in. wide Types CFD-2, CFD-3; 24, 30 or 36 in. wide Type CFD-1.5. Units may be phos/ptd.

Alternate Construction — Noncomposite units of the same type listed above may be used provided allowable loading is calculated on the basis of noncomposite design.

The Unrestrained Assembly Rating is 1 Hr with W8x17 min size beam and 2 Hr with W8x28 min size beam for the following units and limitations:

(a) 1-1/2 in. deep, 24 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft 8 in.

(b) 1-1/2 in. deep, 24 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft 8 in.

(c) 1-1/2 in. deep, 24 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft 11 in.

(d) 2 in. deep, 24 in. wide, 20 MSG or thicker fluted and 20/20 MSG or thicker cellular with clear spans not more than 10 ft 0 in.

(e) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft 2 in.

5. **Joint Cover** — 2 in. wide pressure-sensitive adhesive cloth tape.

6. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in more than one coat to a final thickness as shown above, to steel surfaces which must be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. For method of density determination see Design Information Section. Types 4, 5GP, 8GP, 9GP, MK-4, VP4 may be used only with all fluted steel floor units or blends consisting of one or more fluted units to one 24 in. wide max cellular unit, 1-1/2 or 3 in. deep, with cells spaced approx 6 and 8 in. respectively.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Beam Size	Min Thkns on Beam In.
2	1	W8x17	1
2	2	W8x28	1-1/8

ARABIAN VERMICULITE INDUSTRIES — Type MK-5.

GRACE CANADA INC — Types MK-4, MK-5.

GRACE KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6s, Monokote Acoustic 1.

PYROK INC — Type LD.

SOUTHWEST VERMICULITE CO — Types 4, 5, 5EF, 5GP, 5MD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

VERMICULITE PRODUCTS INC — Types MK-4, MK-5, VP4, VP5.

W R GRACE & CO - CONN CONSTRUCTION PRODUCTS DIV — Types MK-4, MK-5, MK-6/HY, MK-6s, Monokote Acoustic 1, RG.

7. **Shear-Connector Studs-Optional** — Not shown — studs, 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel floor units.

*Bearing the UL Classification Mark

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