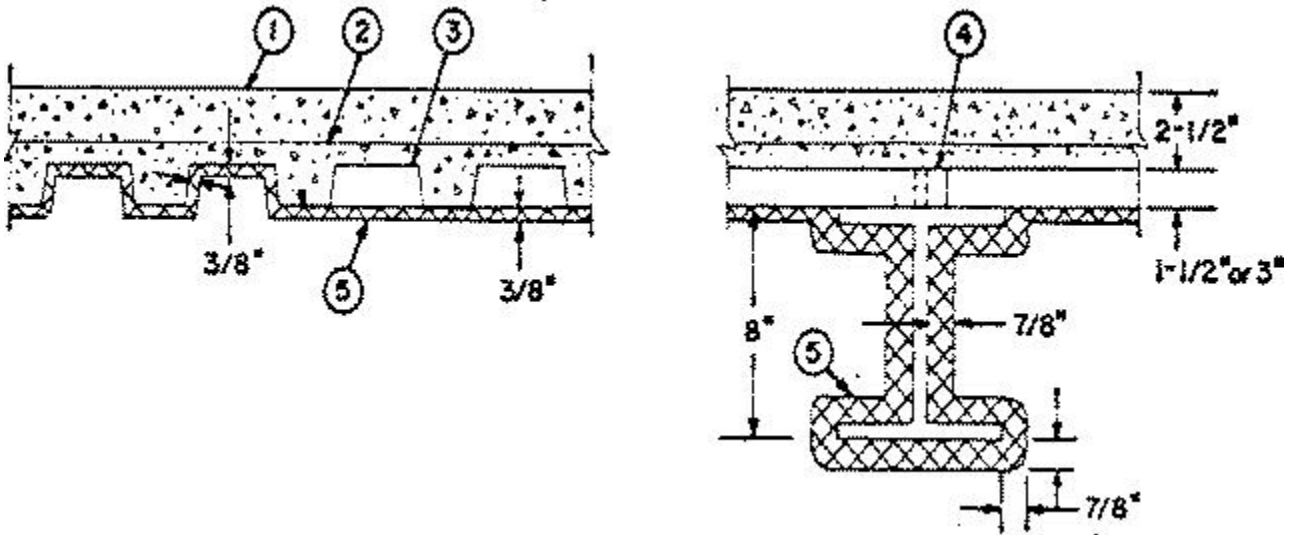


Restrained Assembly Rating — 2 Hr.

Unrestrained Assembly Ratings — 1-1/2 and 2 Hr.

Unrestrained Beam Ratings — 1-1/2 and 2 Hr.



Beam — W8x28 min size.

1. Normal-Weight or Lightweight Concrete — Normal-Weight Concrete: carbonate aggregate, 139 pcf unit weight, 6000 psi compressive strength, vibrated. Lightweight Concrete: expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grate method, 112 +/- 3 pcf unit weight, 3000 psi compressive strength, 4 to 7 percent entrained air, vibrated.

When normal weight concrete is used the ratings are:

Restrained Assembly	2 Hr.
Unrestrained Assembly	2 Hr.
Unrestrained Beam	2 Hr.

When lightweight concrete is used the ratings are:

Restrained Assembly	2 Hr.
Unrestrained Assembly	1-1/2 Hr.
Unrestrained Beam	1-1/2 Hr.

2. Welded Wire Fabric — 6x6 — 10/10 SWG.

3. Steel Floor and Form Units* — Composite 1-1/2, 2 or 3 in. deep galv units. Alternating three or more 24 or 36 in. wide, 18 MSG min fluted units to one 24 or 36 in. wide, 20/18 MSG min cellular units or all fluted units. Welded to supports 12 in. O.C. Unless noted otherwise, adjacent units button-punched or welded together 36 in. O.C. at side joints. —

CONSOLIDATED SYSTEMS INC — 24 or 36 in. wide Type CFD-2 or 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.

4. **Joint Cover** — 2 in. wide, pressure-sensitive cloth tape.

5. **Spray-Applied Fire Resistive Materials*** — Applied by mixing with water and spraying in 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, refer to 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. Use of a spatter coat Type DK, SK-1 or SK-III is required on all cellular units with flat plate on the bottom, optional on other steel surfaces. Thickness of the spatter coat is included in the total final thickness of the protection material.

ARABIAN VERMICULITE INDUSTRIES — Type MK-5

GRACE CANADA INC — Types MK-4, MK-5, SK-1.

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

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

PYROK INC — Type LD.

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

VERMICULITE PRODUCTS INC — Types MK-4, MK-5, SK-1, VP4, VP5.

*Bearing the UL Classification Mark

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