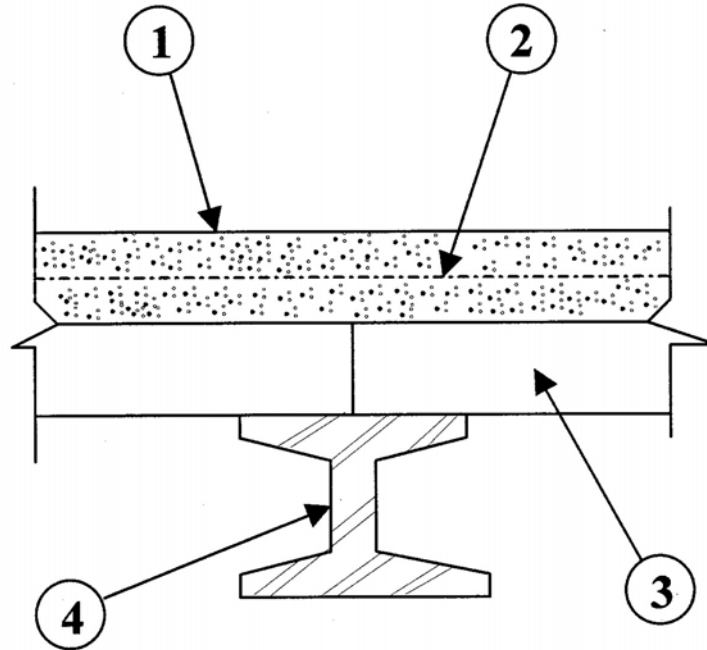


DESIGN NO. AD/FCA 120-01
 RESTRAINED ASSEMBLY RATING - 2, 1-1/2, 1, 3/4 HOUR,
 UNRESTRAINED ASSEMBLY RATING - 0 HOURS (See Item 3),
 UNRESTRAINED BEAM RATING - 2, 1, 3/4 HOUR



Beam - W6X12, W6X25 MINIMUM SIZE (see table below)

1.	Normal-Density or Low-Density Concrete - Normal-Density concrete, carbonate or siliceous aggregate, 150 ± 5 lbs./cubic foot, 3500 PSI nominal compressive strength. Low-density concrete, expanded shale, clay or slate aggregate by rotary kiln method, 110 ± 5 lbs./cubic foot density, 3500 PSI nominal compressive strength.
2.	Wire Fabric - 6" x 6" x 9 gauge wire mesh.
3.	Steel Floor Units - Composite or non-composite floor units. Any combination of 0.030" thick fluted sections or 0.040/0.040" thick cellular sections, welded to supports with 3/4" puddle welds, spaced 12" o.c. Adjacent units button punched or welded 3' o.c. along side joints. When maximum clear span of steel floor units is less than or equal to tested span of 9'6", the unrestrained assembly rating is increased to 2, 1, or 3/4 hour to match the unrestrained beam rating.
4.	Thin Film Intumescent Coatings - Intumescent coating designated "A/D FIREFILM II" or "A/D FIREFILM III" applied in accordance with manufacturer's instructions to the minimum dry film thickness shown below. At flute spaces above the beam, the top flange of the beam shall be protected with the same thickness of coating as required on the beam, or, the flute spaces above the beam shall be completely filled with mineral wool insulation having a minimum density of 6 lbs./ft. ³ .
5.	Shear Connectors (optional) - Studs 1/2" diameter by 4" long-headed type. Welded to top flange of beam through steel floor units.
6.	Protective Coating - Silicone Alkyd Paint Designated A/D COLORCOAT.

For W6X12, W6X25 minimum size Beam:

AD FIRE PROTECTION SYSTEMS INC.						
Restrained Assembly Rating	Unrestrained Assembly Rating	Unrestrained Beam Rating	Nominal Concrete Cover Thickness		Min. Dry Thickness of AD FIREFILM II or A/D FIREFILM III on Beam of minimum size indicated (inches)	
			Normal Density	Low Density		
Hour	Hour	Hour	inches	inches	W6X12 W/D=0.51	W6X25 W/D=0.82
2	0, see item 3	1	4-1/2	3-1/4	0.065	0.045
2	0, see item 3	2	4-1/2	3-1/4	-	0.101
1-1/2	0, see item 3	1	4	2-3/4	0.065	0.045
1	0, see item 3	1	3-1/4	2-1/2	0.065	0.045
3/4	0, see item 3	3/4	2-1/2	2-1/2	0.045	0.045

Testing Standard: ASTM-E119