

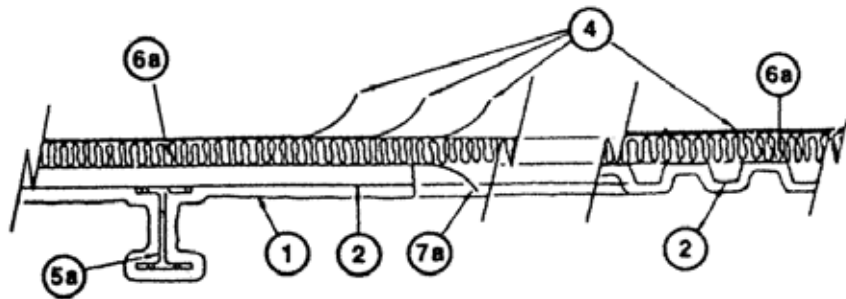
WRG/RCA 60-01

FLOOR CEILING ASSEMBLY

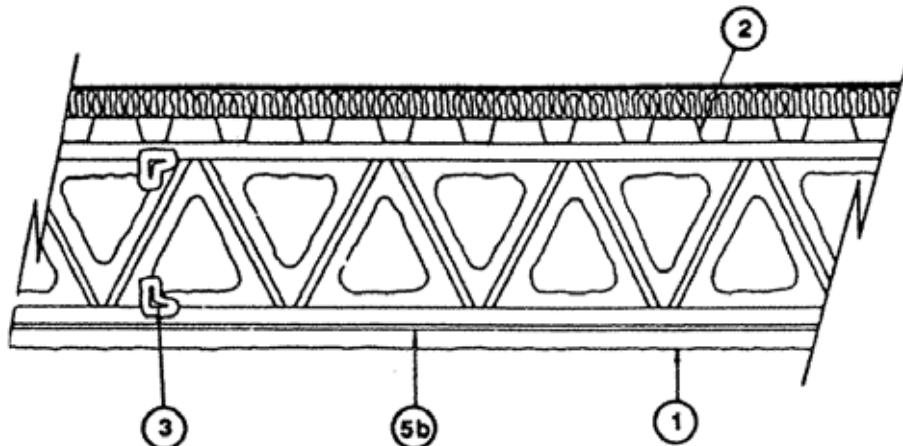
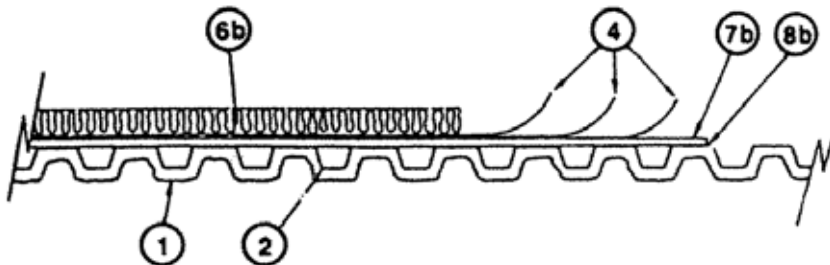
PROTECTED DECK

(TYPE MK-6, MK-6/HY, Z-106, Z-106/HY, Type SK-III and Type RG)

Roof Construction A



Roof Construction B



1. Sprayed Fire Protection

Grace Cementitious Mixture, minimum average density 15 pcf (240 kg/m³), minimum individual density 14 pcf (225 kg/m³), Type MK-6, MK-6/HY, RG and Type SK-III OR minimum average density 22 pcf (350 kg/m³), minimum individual density 19 pcf (300 kg/m³), Type Z-106 and Z-106/HY. A spattered coat of SK III is required prior to the application of MK-6 or MK-6/HY.

2. Steel Roof Deck

Fluted steel deck, minimum 20 ga (0.8 mm) galvanized steel, nominally 1-1/2 inch (38 mm) deep and 24 inch (610 mm) width. Units welded to support on every other trough. Adjacent units to be button-punched together on 16 inch (400 mm) centers.

3. Bridging (Optional)

Designed in accordance with the relevant provisions of Chapter 4 of the Supplement to the National Building Code of Canada, protected to thickness prescribed in joist/truss protection.

4. Roof Covering

Class A, B and C built up roof coverings, consisting only of felt and asphalt (or coal tar pitch) or a proprietary single or multi-ply roof covering system listed or use in fire resistance rated assemblies of dissimilar design rating.

(a) Beams

W150 x 24 WD = 39.5 (W6 x 16, W/D = 0.67) minimum size for protection thickness indicated.

(b) Joist/Truss

Open web steel joist 9.1 lbs/ft (13.5 kg/m) minimum size, spaced 54 inch (1370 mm) o.c., designed in accordance with the relevant provisions of Chapter 4 of the Supplement to the National Building Code of Canada.

ROOF CONSTRUCTION

Roof construction components shall be listed for use in similar fire resistance designs. Install in accordance with the manufacturer's instructions. 5/8 inch (15 mm) Gypsum board is optional for use with fiberglass or phenolic roof insulation, required for polystyrene and polyisocyanurate insulation.

6A. Rigid Roof Insulation

Minimum insulation thickness 2 inch (50 mm)

7A. Sheathing Material

8A. Adhesive

9A. Fasteners, Mechanical

Table A		
Minimum Fire Protection Thickness in Inches		
1 hour rating		
Deck	Joist	Beam
7/8	1-1/4	3/4

6B. Rigid Roof Insulation

Foamed plastic, minimum thickness 1 inch (25 mm)

7B. Gypsum Wallboard

8B. Adhesive

Table B		
Minimum Fire Protection Thickness in Inches		
1 hour rating		
Deck	Joist	Beam
7/8	1-1/4	3/4