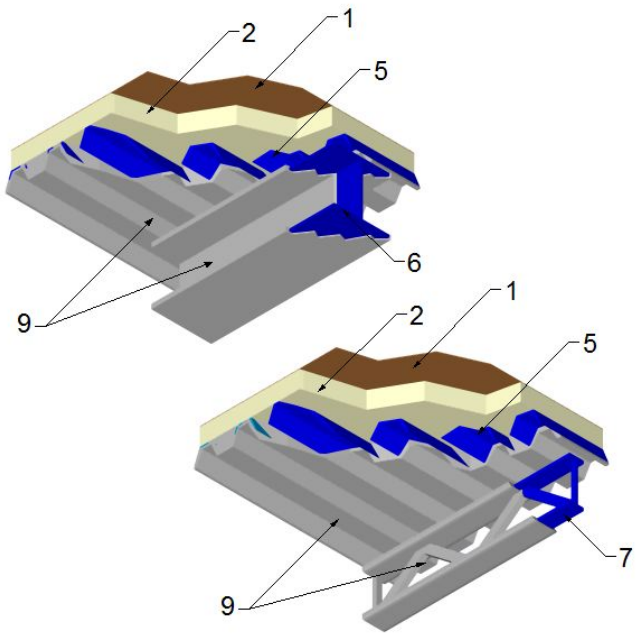
Design Number : CCI/MFF 60-01
CCI MANUFACTURING INC.
CAN / ULC S101
Restrained Assembly Rating – up to 1 hour
Unrestrained Assembly Rating – up to 1/2 hour (see Steel Roof Deck, Item #5)
Unrestrained Beam Rating – up to 1 hour



1. ROOF COVERING: Class A, B, or C built-up roof covering consisting only of felt and asphalt in alternate layers, installed in accordance with the manufacturer's installation instructions.

2. RIGID ROOF INSLUATION: 915 mm x 1220 mm Glass Fibre board panels with a minimum thickness of 70 mm and maximum thickness 100 mm. Applied with adhesive to vapour barrier or steel deck. End joints shall be staggered 600 mm on center (oc) in adjacent rows. When applied in more than one layer (100 mm maximum total thickness) all joints shall be staggered 300 mm form those of the previous layer, and subsequent layers shall be applied with hot mopping asphalt applied at the rate of 14.6 kg/m^3.

3. SHEATHING MATERIAL (optional): Applied to steel deck with adhesive, adjacent sheets overlapped an average of 50 mm.

4. ADHESIVE: Applied to steel deck (and vapour barrier if used) at the rate specified in the manufacturer's listing.

5. STEEL ROOF DECK: Fluted galvanized steel deck 38 mm deep and 910 mm wide, with a minimum 0.8 mm thickness. Flutes approximately 145 mm oc, crests approximately 80 mm wide, and valleys approximately 40 mm wide. Attached to joist and beam with 20 mm dia welds spaced 300 mm oc and at both sides of deck joints. Adjacent units crimped along

joints at 400 mm oc. When the maximum clear span of the steel roof deck is less than or equal to the tested span of 1700 mm the unrestrained assembly rating may be increase to 1h.

6. BEAM: W150 – 18 minimum size.

7. JOIST: 250 mm deep, 20 kg/m minimum size open web steel joist, designed in accordance with the relevant provisions of Chapter 4 of the Supplement to the National Building Code of Canada. Spaced 1700 mm oc.

8. BRIDGING – Designed in accordance with the relevant provisions of chapter 4 of the Supplement to the National Building Code of Canada.

9. SPRAYED FIBER: HiBAR™ fiber for application with or with out adhesive to steel surfaces in thicknesses indicated below. Fiber to have a minimum average dry density of 153 kg/m^3 with no minimum individual value less than 139 kg/m^3. Steel surface must be clean and free of dirt, loose scale and oily deposits.

Spray Fiber Location	Hibar Minimum Thickness (mm)	Minimum Density (kg/m^3)	
		Average	Individual
Underside of Steel Roof Deck	37	153	139
Through Joist	35		
Beam	31		