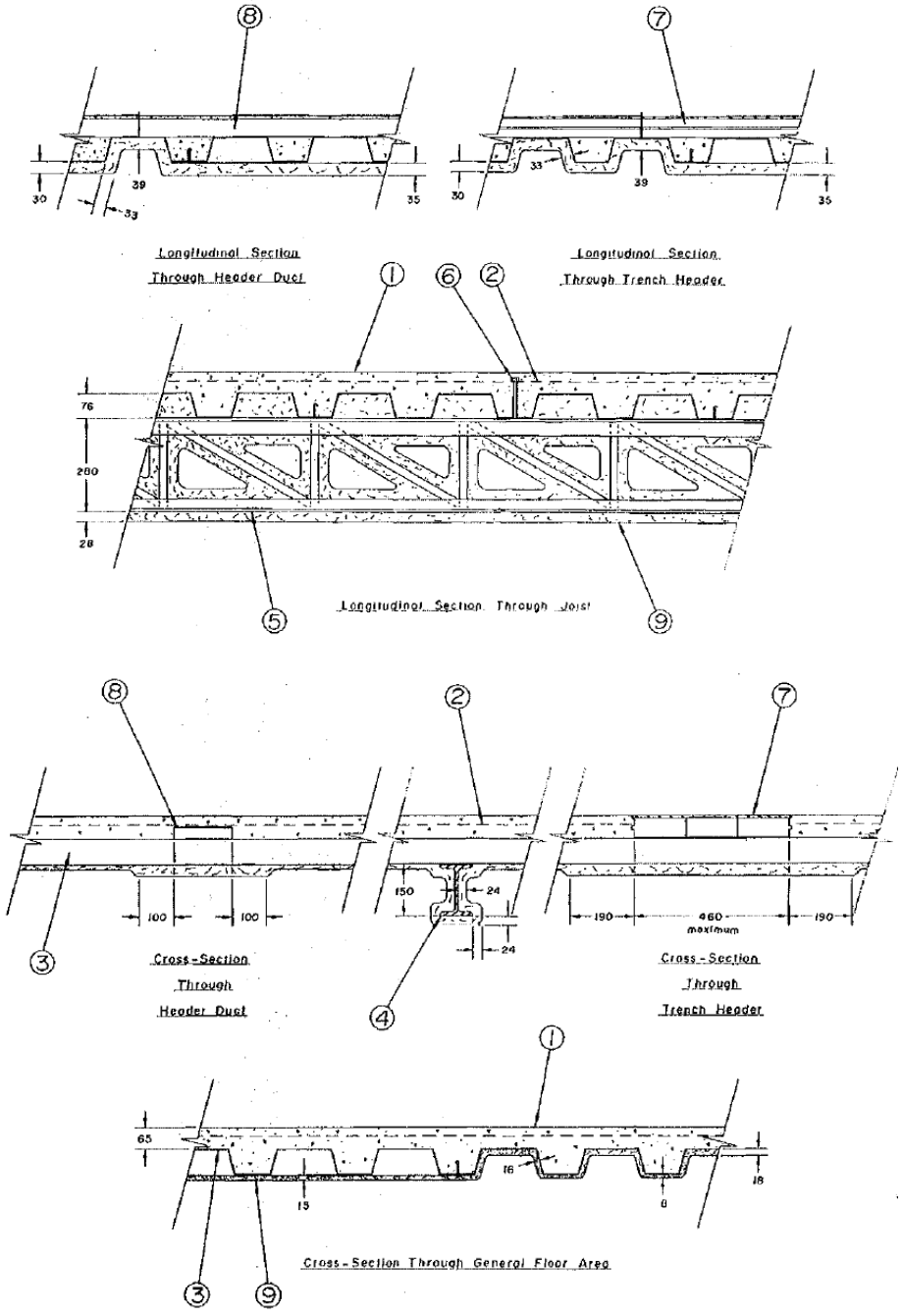
Design Number : CCI/MFF 120-02
CCI MANUFACTURING INC.
ASTM E119
CAN/ULC S101
Restrained Assembly Rating – up to 2 h
Unrestrained Assembly Rating – up to 1 h
Unrestrained Beam Rating – up to 1 h



1. SAND AND GRAVEL CONCRETE: 20 MPa nominal compressive strength, with a 2440 kg/m^3 density.

2. WIRE FABRIC: 152 mm x 152 mm MW 9.9/M 9.1 wire mesh.

3. STEEL FLOORING UNITS: Composite or non-composite with 0.091 mm thick fluted sections, or alternating one 900 mm wide 0.91 mm thick fluted section to a max of one 900 mm wide 0.091/0.091 mm cellular section. Units are to be welded to supports with 19 mm dia plug welds, spaced at every trough. Adjacent units crimped along joints at 460 mm on center. Thickness of fluted sections may be reduced to 0.76 mm for ratings not exceeding 1 h.

4. BEAM: W150 x 18, Min Size.

5. OPEN WEB STEEL JOIST: 280 mm deep, 20 kg/m^3 min size, designed in accordance with the relevant provisions of the National Building Code of Canada. For composite design use Item 6.

6. SHEAR CONNECTORS (Optional) Headed type, welded to top flange of joist or beam through the decks.

7. TRENCH-HEADER: Steel housing with a max width of 460 mm.

8. HEADER DUCT – 170 mm wide by 35mm deep with 100 mm access holes.

9. SPRAYED FIBER: HiBAR™ applied on steel surfaces in thicknesses indicated in above drawings. Fiber must have a min average dry density of 149 kg/m^3 with no min individual value less than 140 kg/m^3. Steel Surface must be clean and free of dirt, loose scale and oily deposits.