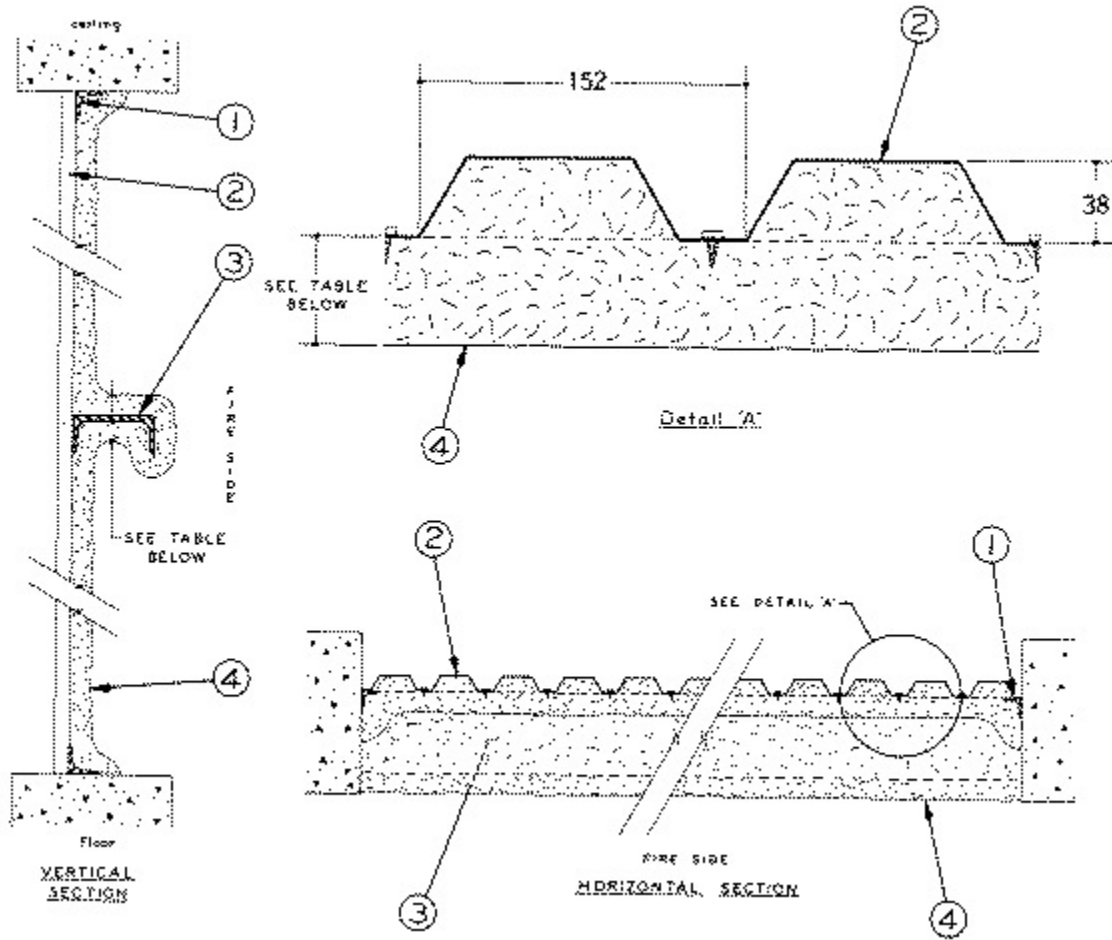


ULC Design No. W802
 August 07, 2003
 Assembly Rating - See Table Below
(EXPOSED TO FIRE ON INTERIOR SIDE ONLY)



Nonbearing Wall

1. **Support Angles** - 75 mm by 75 mm by 6 mm thick cold-rolled steel angles at top and bottom of wall, 50 mm by 50 mm by 5 mm thick angle at each side. Angles attached to masonry with M10 steel bolts 76 mm long, and steel or cast-iron expansion shells spaced 600 mm OC.
2. **Wall and Partition Facing Units** - 0.5 mm thick galvanized sheet steel facing units with 38 mm deep flutes 152 mm OC. Panels fastened with 6 mm diameter by 13 mm long self-tapping sheet-metal screws. Alternatively, 0.5 mm thick corrugated steel facing units 19 mm minimum depth or equivalent section type may be used.
3. **Steel Channel** - (Optional) - C8x11.5 cold-rolled channel, where required, welded to 100 mm by 100 mm by 6 mm angles. Angles attached to masonry with two M10 steel bolts 76 mm long, or studs and steel or cast-iron expansion shells.
4. **Spray-Applied Fire-Resistive Material** - (See table below) - (Guide No. 40 U18.6). Applied with or without adhesive to interior face of the wall, to the minimum protection requirements indicated in the following table. The density and corresponding thickness of the spray-applied fire-resistive material may be varied within a density range of 165 to 285 kg/m³ while maintaining the minimum required protection value with use of the following relationship:

ULC Design W802 continued...

$$\text{Protection Required, kg/m}^2 = \frac{\text{Density kg/m}^3 \times \text{Thickness, mm}}{1000}$$

1000

or

$$\text{Required Thickness, mm} = \frac{\text{Protection Required, kg/m}^2 \times 1000}{\text{Density kg/m}^3}$$

Density kg/m³

For method of density determination, refer to General Information Section under heading "Fire Resistance Ratings". Steel surfaces must be clean and free of dirt, loose scale and oily deposits.

| Assembly Rating, h | Protection Required, kg/m ² | |
|--------------------|--|------------|
| | On Wall Unit | On Channel |
| 1 | 10.3 | 6.8 |
| 1-1/2 | 12.4 | 8.9 |
| 2 | 12.8 | 9.3 |
| 3 | 13.4 | 9.9 |
| 4 | 14.0 | 10.5 |

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