

Exterior non-load bearing wall assembly, based on CAN/ULC-S101-14-Rev 1  
"Standard Methods of Fire Endurance Tests of Building Construction and Materials"

**NOTE:**

Consult the UL certification database for up-to-date information on acceptable components for this assembly.

## IDEAL FIREWALL – 1H

Assembly Rating – 1h.  
Design no. W605

1. **Flashing Channels:** minimum 152 mm wide channels with 45 mm and 76 mm flanges fabricated from 1.52 mm thick galvanized steel fastened to the frame with 6.4 mm by 41 mm anchors spaced 406 mm on centre.
2. **Interior Steel Liner: "Supreme Liner"** fabricated from minimum 0.61 mm thick sheet metal, fastened to flashing channels by 19 mm long sheet metal screws spaced maximum 305 mm on centre. Side lap joints sealed with factory-applied caulking and secured with 19 mm long sheet metal screws maximum 305 mm on centre. Butyl tape applied between the steel liner panels and the flashing channels to provide an air barrier.
3. **Z-Bar Sub-Girt:** minimum 152 mm wide x 1.22 mm thick sheet steel notched z-bars with 25 mm and 45 mm flanges, maximum 1525 mm on centre, fastened to steel liner by 19 mm long sheet metal screws spaced maximum 250 mm on centre.
4. **Ceramic fibre strip:** 128 kg/m<sup>3</sup> density, minimum 100 mm wide x 13 mm thick strips, attached to Z-bar sub girt with stick pins spaced 250 mm on centre.
5. **Mineral wool batts:** 96 kg/m<sup>3</sup> nominal density, processed from rock and slag, supplied in sheets that are 76 mm thick by 610 mm or 813 mm wide by 1220 mm or 1525 mm long. Two layers installed with joints staggered. For thicker walls, fill wall cavity with more layers as needed.
6. **Exterior cladding:** Corrugated prepainted sheet steel panels, such as, **Vee-Rib, Metro-Industrial, Universal, Utility, Urban Accent, C-275 or C-360 Corrugated, and Capital Siding** panels; minimum 0.46 mm thick, fastened to Z-bar sub girts and flashing channels by 19 mm long sheet metal screws maximum 305 mm on centre. Lap joints of adjacent panels fastened by 19 mm long sheet metal screws maximum 406 mm on centre.

