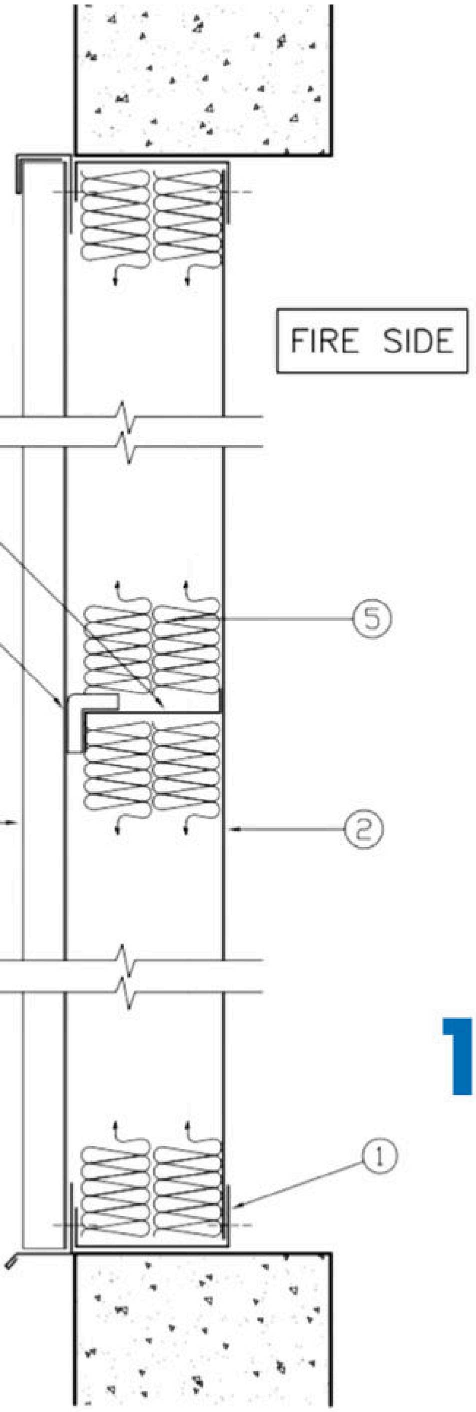
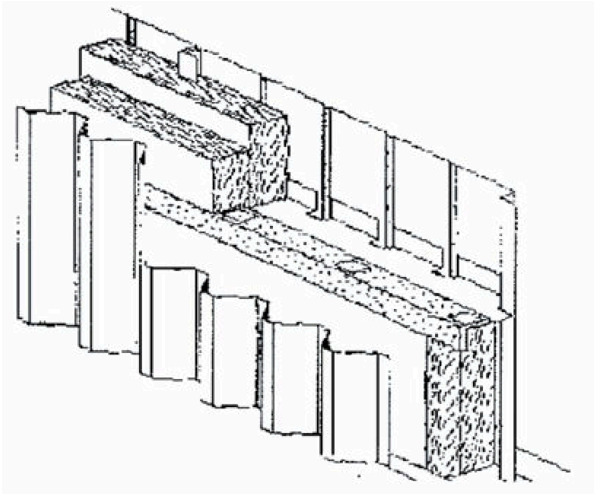
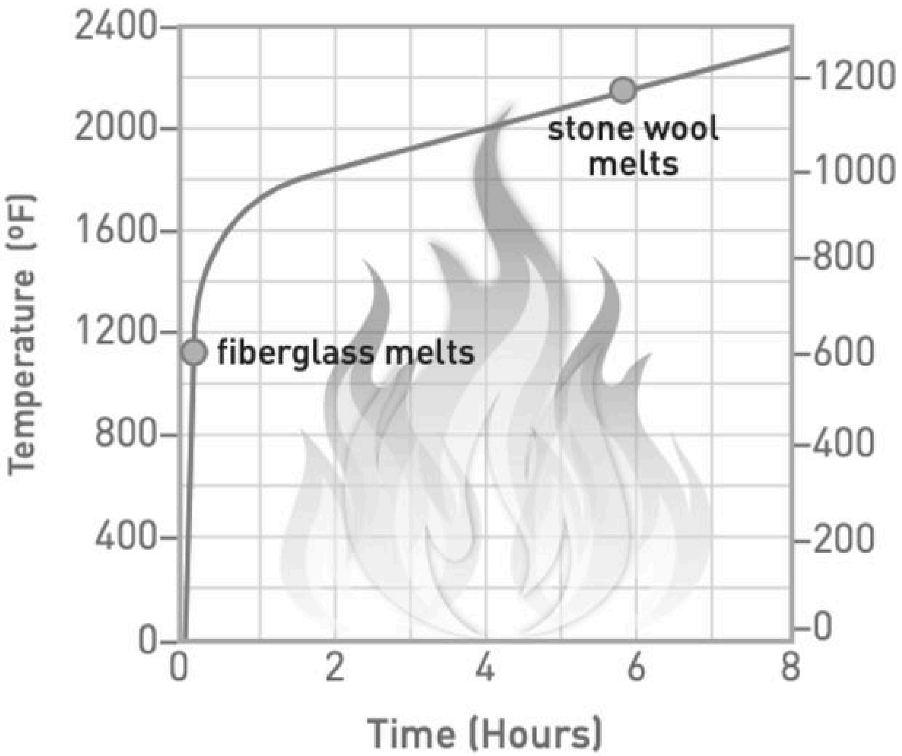




NORSTEEL BUILDINGS

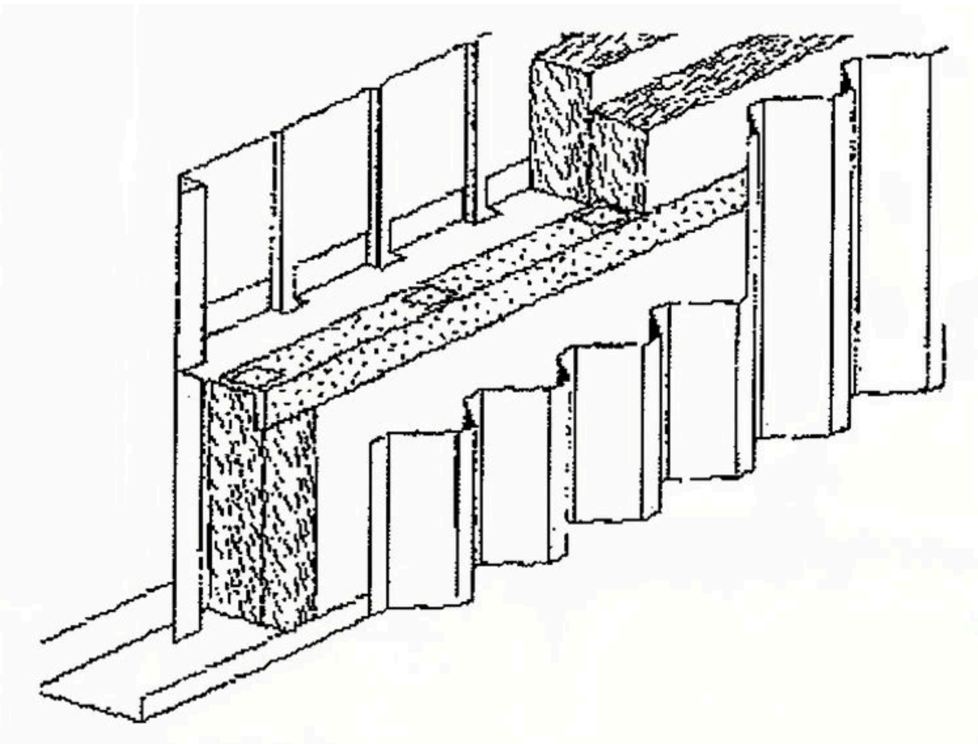
FIRE-RATED WALL SYSTEM 1-HOUR AND 2-HOUR



FIRE-RATED WALL SYSTEM

FIRE-RATED EXTERIOR SHEET STEEL WALLS

Fire-rated steel walls are insulated with mineral wool fiber made from basalt rock and slag, resulting in a non-combustible material with a melting point of approximately 2,150°F (1,177°C). This composition provides exceptional fire resistance, offering a 1 or 2-hour firewall rating (W605 & W606). These semi-rigid, lightweight insulation boards are also water-repellent and designed for high-temperature applications, ensuring both durability and flexibility.



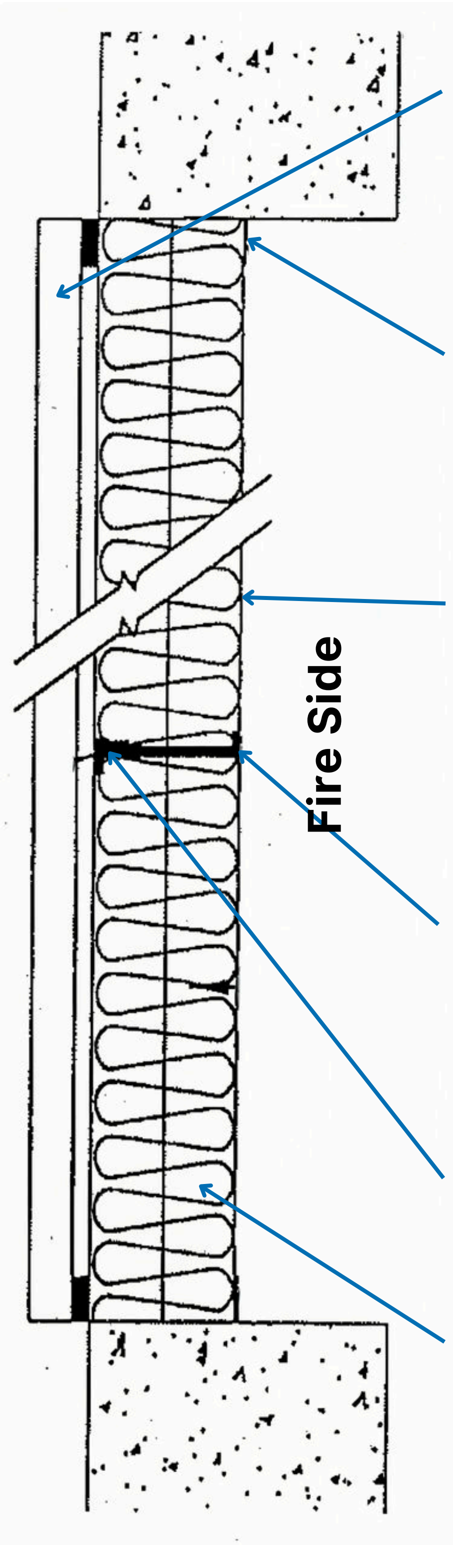
KEY APPLICATION QUALIFIERS:

- Easy to install
- Service temperature 1200°F (650°C)
- Non-combustible
- Lightweight
- Can be fabricated/l aminated
- Excellent thermal resistance
- Low moisture sorption
- Good compressive resistance
- Non-corrosive
- Chemically inert
- CFC and HCFC free product and process
- Made from natural & recycled materials

FIRE-RATED WALL SYSTEM

ULC DESIGN NO. W605

FIRE RESISTANCE RATING = 1 HOUR



EXTERIOR CLADDING

Corrugated prepainted sheet steel panels to various profiles and widths. 26 Gauge minimal 0.46 mm thick panels fastened to Z-bar sub-girts by 19mm long sheet metal screws at 505 mm on centre. Lap joints of adjacent panels fastened by 19 mm long lap screwed at maximum 405 mm on centre.

FLASHING CHANNELS

152 mm wide x 1.52 mm thick sheet steel with 45 mm & 76 mm flanges, maximum 406 mm on centre, fastened to concrete frame with 6.4 mm x 45 mm concrete anchors (top and bottom).

STEEL LINER

26 Gauge panels fabricated from minimum 0.61 mm thick sheet steel, 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.

Z-BAR SUB-GIRT

Minimal 152 mm wide x 1.22 mm thick sheet steel Z-bars with 25 mm and 38 mm flanges, maximum 1525 mm on centre, fastened to steel liner by 19 mm long sheet metal screws spaced maximum 250 mm on centre.

CERAMIC FIBRE STRIP

128 kg/m^3 density, minimal 100 mm wide x 13 mm thick strips, attached to Z-bar sub-girt spaced 250 mm on centre.

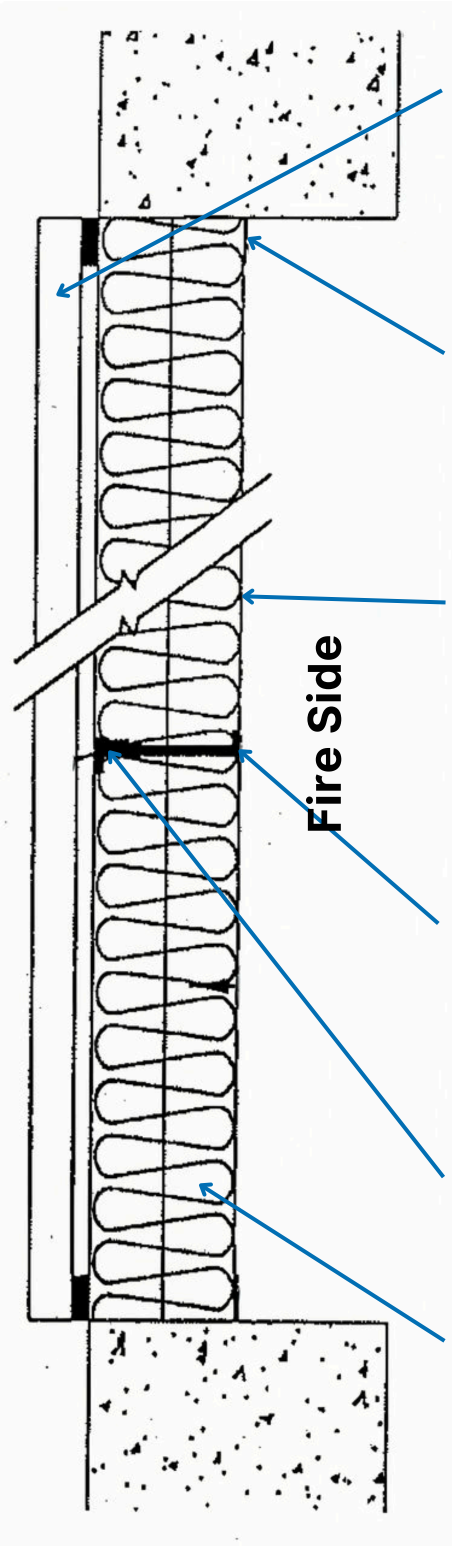
MINERAL WOOL INSULATION

96 kg/m^3 nominal density, supplied in 76 mm thick sheets 610 mm x 1220 mm. Two layers installed with vertical and horizontal joints staggered.

FIRE-RATED WALL SYSTEM

ULC DESIGN NO. W606

FIRE RESISTANCE RATING = 2 HOURS



EXTERIOR CLADDING

Corrugated prepainted sheet steel panels to various profiles and widths. 24 Gauge minimal 0.61 mm thick panels fastened to Z-bar sub-girts by 19mm long sheet metal screws at 505 mm on centre. Lap joints of adjacent panels fastened by 19 mm long lap screwed at maximum 405 mm on centre.

FLASHING CHANNELS

200 mm wide x 1.52 mm thick sheet steel with 45 mm & 76 mm flanges, maximum 305 mm on centre, fastened to concrete frame with 6.4 mm x 41 mm concrete anchors (top and bottom).

STEEL LINER

24 Gauge panels fabricated from minimum 0.61 mm thick sheet steel, 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.

Z-BAR SUB-GIRT

Minimal 200 mm wide x 1.22 mm thick sheet steel 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 alternately 120 mm and 200 mm on centre.

CERAMIC FIBRE STRIP

128 kg/m^3 density, minimal 100 mm wide x 13 mm thick strips, attached to Z-bar sub-girt spaced 250 mm on centre.

MINERAL WOOL INSULATION

72 kg/m^3 nominal density, supplied in 102 mm thick sheets 610 mm x 1220 mm. Two layers installed with vertical and horizontal joints staggered.