



OERQC.R25807 Insulated Building Panels

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Insulated Building Panels

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NORBEC ARCHITECTURAL

R25807

97 DE VAUDREUIL
BOUCHERVILLE, QC J4B 1K7 CANADA

Norex Series

Factory-assembled insulated building panels designated "NOREX-L", "NOREX-S", or "NOREX-H" with pre-painted minimum 0.53 mm thick steel skins and a polyisocyanurate foam core. Nominal width of "NOREX-L" and "NOREX-S" panels is 1080 mm. Nominal width of "NOREX-H" panels is 795 mm. Maximum thickness of "NOREX-L" panel is 150 mm. Maximum thickness of "NOREX-S" panel is 127 mm. Maximum thickness of "NOREX-H" panel is 100 mm.

Panels are fastened together or to supporting structure with manufacturer's fastening hardware at 2440 mm OC.

Sprinkler protection is required. The temperature rating of the sprinkler heads shall be 68°C and the orifice diameter shall be 12.7 mm. The sprinkler system shall provide the higher of a minimum water flow rate of 8.1 L/min for each square metre of interior floor area or the requirement consistent with the hazard classification.

Norlam Series

Factory-assembled insulated building panels with pre-painted, 0.53 mm thick (minimum) steel skins and an expanded polystyrene (EPS) core. Nominal width of "Norlam" panels is 1150 mm. Maximum thickness of each panel is 300 mm.

Sprinkler protection is required. The temperature rating of the sprinkler heads shall be 68°C and the orifice diameter shall be 12.7 mm. The sprinkler system shall provide the higher of a minimum water flow rate of 8.1 L/min for each square meter of interior floor area, or the requirement consistent with the hazard classification.

When installed in an interior application, panel joints are fastened on the interior and exterior skins 25 mm from each panel end with #8 by 19 mm self-drilling, self-tapping screws. Panel joints are also caulked on the interior and exterior skins with a continuous bead of RTV silicone sealant designated "Adsil". 50 by 50 mm sheet steel angles are fastened at 400 mm OC to the interior of floor, wall and ceiling corners, using #8 by 19 mm self-drilling, self-tapping screws and RTV silicone sealant designated "Adsil".

When installed as an exterior application, the panels are fastened to structural girts by means of self-tapping screws (or carriage bolt) and C-Clip fasteners placed in the tongue and groove joint of the exterior face of the panel. These structural fasteners mechanically fasten both the fascia (exterior) and the liner (interior) metallic sheets to the structural girts. The side joint of the panel have a 4.8 mm. (3/16") bead of butyl sealant that is either factory or field applied into one or both of the grooves of the panels. Flashing must be placed at the building base and at eaves, openings, and horizontal and vertical comers. The flashing is attached to the panels with self-tapping, self-drilling screws or pop rivets in accordance with Norlam's requirements. Additional caulking may be added to ensure air tightness and avoid water penetration through the building envelope.

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Insulated Building Panels

GENERAL

This category covers factory-assembled insulated building panels intended for use as walls and ceilings in noncombustible construction.

These panels have been investigated in a full-scale room fire test. The room consists of four walls at right angles, a floor, and a ceiling. The room interior is 3.6 m long, 2.4 m wide and 2.4 m high. The floor and one of the 2.4 m by 2.4 m walls are constructed of noncombustible materials. The noncombustible wall has an open doorway measuring 2.0 m high and 0.8 m wide. The other three walls and the ceiling are constructed from the panels under investigation. Where the panels are not used for ceiling application, the test ceiling is selected to represent the worst case condition anticipated in the field and will be described in the individual certifications.

The panels are subjected to an ignition source as described in CAN/ULC-S138, located in one of the two corners opposite the doorway, for a period of not less than 15 minutes. Panels covered under this category have demonstrated that their contribution to fire growth within the room is sufficiently low to an extent that flames do not exit the open doorway, the floor heat flux level does not exceed 20 kW/m², and the room temperature does not exceed 600°C as measured 300 mm from the corner diagonally opposite to the ignition source and between 670 mm and 2100 mm from the floor.

Where sprinkler protection is specified, one sprinkler head is located 75 mm below the ceiling, 2.0 m from the 2.4 m wall, and 1.2 m from the 3.6 m wall adjacent to the ignition source. The type of sprinkler head and minimum water flow rate is specified in the individual certifications. A requirement of the sprinkler system is that it be consistent with ANSI/NFPA 13, "Installation of Sprinkler Systems," and NFPA 231, "General Storage," or NFPA 231C, "Rack Storage of Materials," as applicable, and with generally accepted practices for the intended installation.

Authorities Having Jurisdiction should be consulted before installation.

RELATED PRODUCTS

For surface burning characteristics of insulated building panels, see Composite Panels ([BKROC](#)).

REQUIREMENTS

The basic standard used to investigate products in this category is CAN/ULC-S138, "Method of Test for Fire Growth of Insulated Building Panels in a Full-Scale Room Configuration" (supersedes ULC/ORD-C376).

ULC MARK

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