



Installation guide

LAMINATED INSULATION PANELS WITH
FINE GRANULAR CONCRETE FINISH

Polyform

INSULATING SOLUTIONS

PRODUCT DESCRIPTION

Polyroc® wall panels are prefinished exterior insulation panels made of fine granular concrete, designed to be installed on a building's perimeter foundation walls—specifically on short walls (maximum ground height: 6 ft [1.8 m]). They can be used for new buildings and renovations, as well as for commercial, residential, industrial and institutional projects.

The panels are lightweight and easy to handle, weighing 15.5 lb (7 kg). They cut easily with a masonry saw blade. Each panel is cut square on the sides and grooved on the top and bottom to accommodate anchors. This product is reusable, so it can be removed and reinstalled at a later date.

PANEL DIMENSIONS

Standard thicknesses: 2 ¼ in, 2 ¾ in, 3 ¼ in and 4 in.

Width: 21 in (534 mm)

Length: 48 in (1220 mm)

POLYSTYRENE THICKNESSES

2 in (51 mm) R-8

2 ½ in (64 mm) R-10

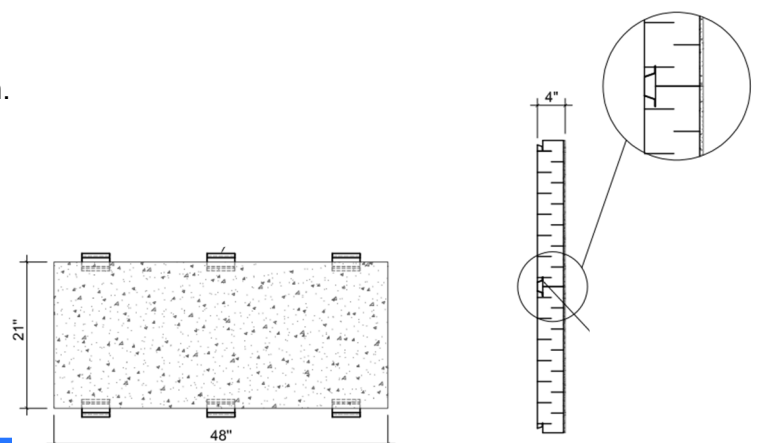
3 in (77 mm) R-12

3 ¾ in (95 mm) R-15

Custom insulation panel thickness is available

CONCRETE THICKNESS

¼ in (7 mm), factory-applied with a gray natural stone finish.



RESISTANCES AND STANDARDS

The insulation used meets ULC-S701 certification.

FICHE TECHNIQUE

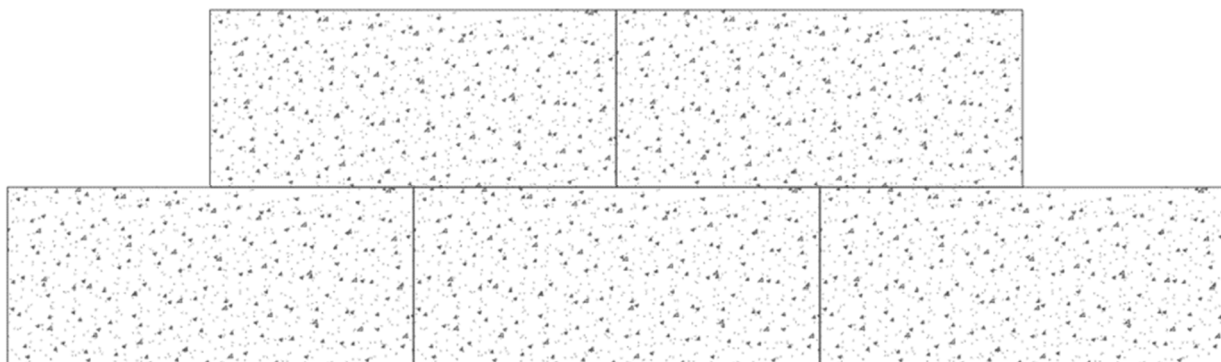


Propriétés physiques PSE	Méthode d'essais ASTM	Exigences ULC S701 Type 2	Résultats
Résistance thermique 1 po (25mm) hr·°F·pi²/BTU (m²·°C/W)	C-518	Min : 4,0 Min : (0,70)	4,0 (0,70)
Perméabilité à la vapeur d'eau Perm. (ng/Pa·s·m²)	E-96	Max : 3,5 Max : (200)	2,35 (133)
Stabilité dimensionnelle (%)	D-2126	Max : 1,5	0,28
Résistance à la flexion lb/po² (kPa)	C-203	Min : 35 Min : (240)	72 (497)
Absorption d'eau (%)	D-2842	Max : 4,0	1,7
Résistance à la compression lb/po² (kPa)	D-1621	Min : 16 Min : (110)	18 (124)
Indice limite d'oxygène (%)	D-2863	Min : 24	42
La température maximale d'utilisation continue °F (°C) est de 167 (75). La température maximale d'utilisation intermittente °F (°C) est de 180 (82,2). Le coefficient de dilatation thermique po/po/°F (mm/mm/°C) est de 3,5 x 10-5 (6 x 10-5c-1) selon la méthode ASTM D-696.			

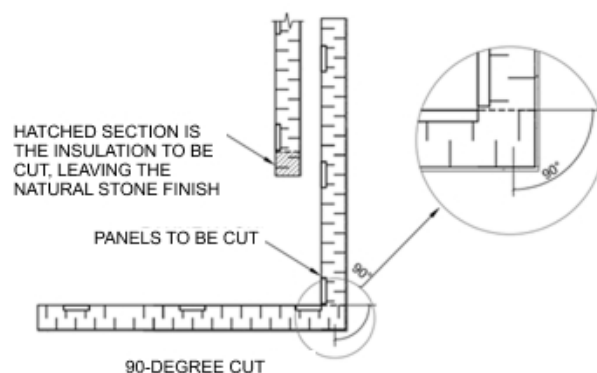
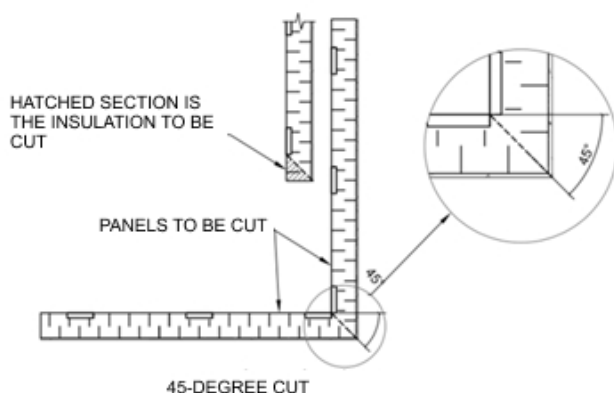
WORK EXECUTION

Panels can be installed horizontally on low walls. It is important to eliminate any masonry irregularities or uneven surfaces on foundations or exterior walls before installation. The polystyrene panels can be shaped so that they lie flat against the walls. This will reduce or prevent cracks caused by uneven wall surfaces. An air and/or vapour barrier can be pre-installed on walls and foundations, which must be properly waterproofed below grade.

Panels should be installed in such a way that the joints are not aligned, e.g. brick-style.

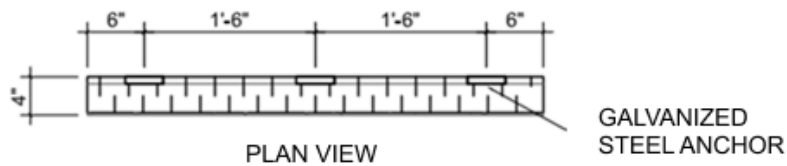


Corners can be cut at 45° or 90°, removing an edge of insulation.



HARDWARE

Panels are installed using specially designed galvanized steel mounting brackets. These fasteners are supplied with the panels. Three anchors must be installed 6" (15 mm) from the end and 18" (46 cm) center-to-center. These anchors are fastened with Ucan Scru-it or equivalent concrete screws. The screw must be inserted into the structure at least 1/4" (7 mm) deep.



FIRE PROTECTION

Concrete-laminated insulation boards are combustible: protect them from sources of high heat.

DELIVERY

Panels are shipped on pallets. They are protected by a protective membrane, so they can be stored indoors or outdoors.

