



Installation guide

INSULATION PANEL HOT-WIRE CUT FOR
WOOD FURRING INSERTION

Polyform

INSULATING SOLUTIONS

PRODUCT DESCRIPTION

UNIFOAM INSERT[®] is an expanded polystyrene insulation board cut with a hot wire to allow the insertion of 3" wood furring strips at 16" (406 mm) on center. UNIFOAM INSERT[®] insulation boards are ideal for insulating: interior foundation walls, interior and exterior walls, screw floors, flat and cathedral ceilings. It is 100% recyclable and contains recycled material.

PANEL DIMENSIONS

Thickness: 2 5/8 in (67 mm), 3 7/8 in (98 mm)

Width: 48 in (1220 mm)

Length: 96 in (2440 mm)

RESISTANCES & NORMES

Thermal resistance

According to C-518: 1 in (25 mm) R 3,87 (RSI 0,68)

Compressive strength

According to the ASTM D-1621: 13 lb/in² (95 kPa)

Flexural strength

According to ASTM C-203: 61 psi (414 kPa)

Water vapour permeability

According to the ASTM E-96: 3,67 perm. (208 ng/Pa. s. m²)

Water absorption

According to ASTM D-2842: 4.1%

Banks

Overlapped and interlocked 1 ½ in (38 mm) on all 4 sides.

EXECUTION OF THE WORK

Foundation wall

UNIFOAM INSERT® must be installed on a flat foundation wall and free of any concrete mounds. It is installed directly on the concrete wall. To fix the panels, simply drill 3 holes at a distance of 24" between each one, through each piece of wood to the concrete and then screw with screws or concrete nails. Use nails or screws, at least one inch larger than the thickness of the insulation chosen. Do not stick.

For each wall, the starter sheet should be cut to within 2 5/8" (67 mm) or 3 7/8" (98 mm) of the wood furring (depending on the thickness of the product installed).

Before covering an entire wall, make sure you have installed a starter sheet on the next wall.

For the last sheet of each wall, leave 1/2" (13 mm) of headspace for low-expansion spray foam.

For the inside corners, recover the loss by using it as a starting sheet for the next corner. For the outside corners, glue a metal corner after installing the drywall or add a strip of sheet metal (this must be bent at 90 degrees and wide enough to be nailed to the existing furring blocks).

Repeat these steps for the other walls. Seal 1/2" (13 mm) gaps in all corners and other visible openings with low-expansion spray foam.

For electricity, enclose electrical boxes in insulation and secure to wood furring or insulation with low-expansion spray foam. Install electrical wiring by digging a "V" shaped corridor in the insulation with a thin-bladed knife. Confirm with your electrician and the building code standards in effect if protection must be installed.

For windows, provide a solid outline (wood fur) for the installation of wide mouldings.

When installing gypsum board, start at the corner and install the left panel before the right panel so that the right panel holds the left panel. Screw the right panel into the corner wood fur.

IMPORTANT: Insulate the perimeter of the insulated wall and perforations in the panel insulation (e.g., around electrical boxes, windows, etc.) by filling the joints with low-expansion polyurethane foam.

Floor

Glue the UNIFOAM INSERT[®] insulation boards to the concrete to prevent displacement during installation (optional). Use a small amount of solvent-free glue.

Cross the joints of the plywood with the UNIFOAM INSERT[®] insulation boards. Screw the plywood onto the wood furring every 12" (305 mm) apart.

Apply the chosen surface finish. For all floor finishing installations, please refer to the methods recommended by floor covering experts.

IMPORTANT: Floors with a slope for the drain may require some preparation.

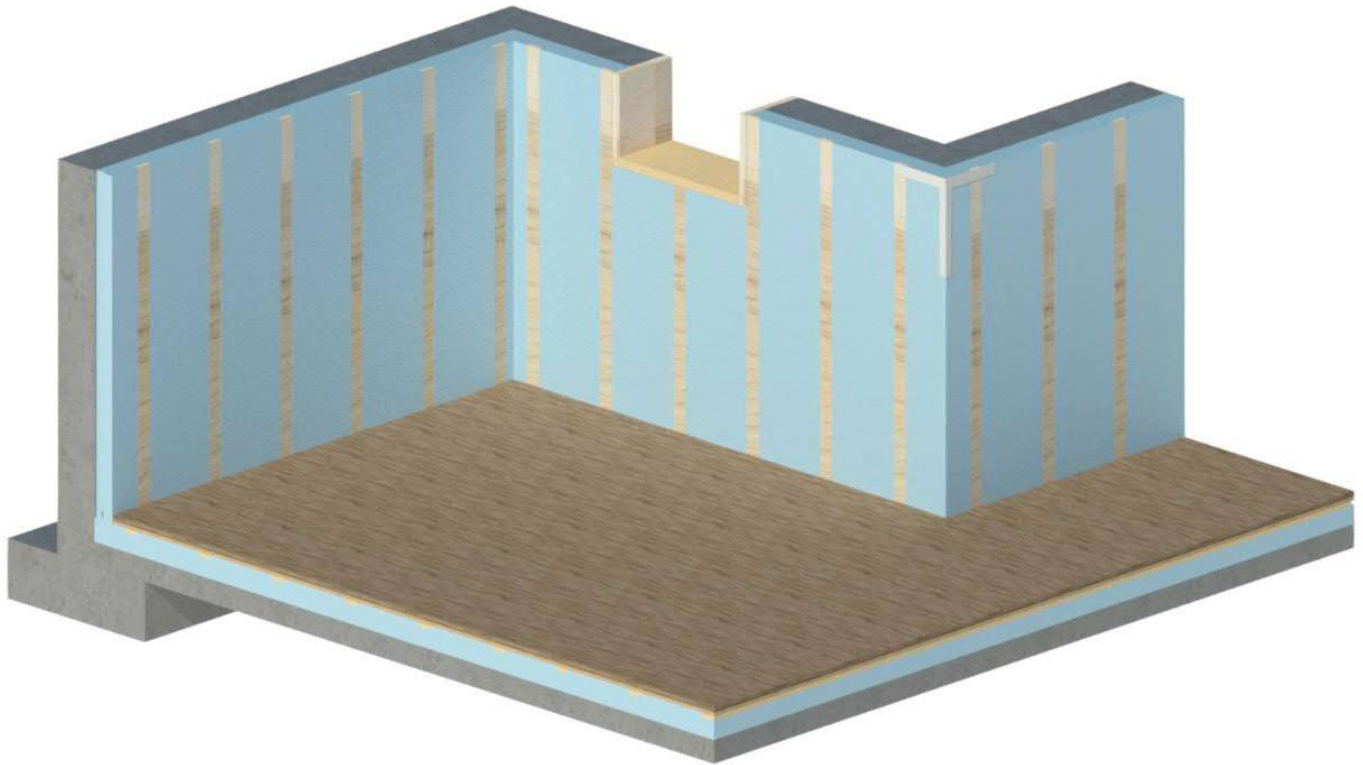
Ceiling

When using UNIFOAM INSERT[®] panels for a flat or cathedral ceiling, it is advisable to install batt, roll or loose insulation (cellulose, fiberglass or mineral) between the attic joists. Once the UNIFOAM INSERT[®] panels have been installed, it is important to cover them with a vapour barrier (always on the warm side) and then proceed with the continuous installation of gypsum panels, before the installation of the divisions.

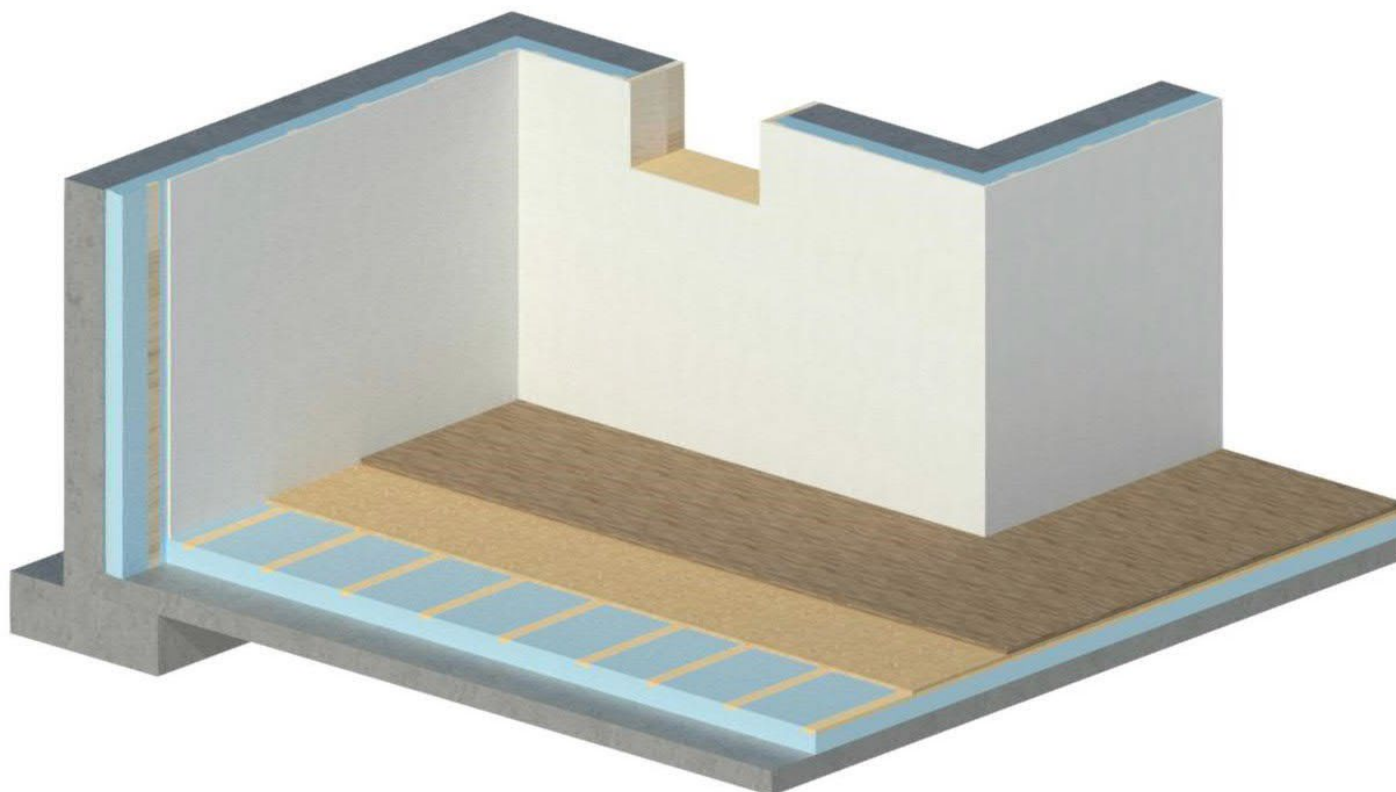
The successive layers:

1. Mat, roll or loose insulation
2. Panneaux UNIFOAM INSERT[®]
3. Vapour barrier
4. Gypsum board installed continuously

FOUNDATION WALL INSULATION

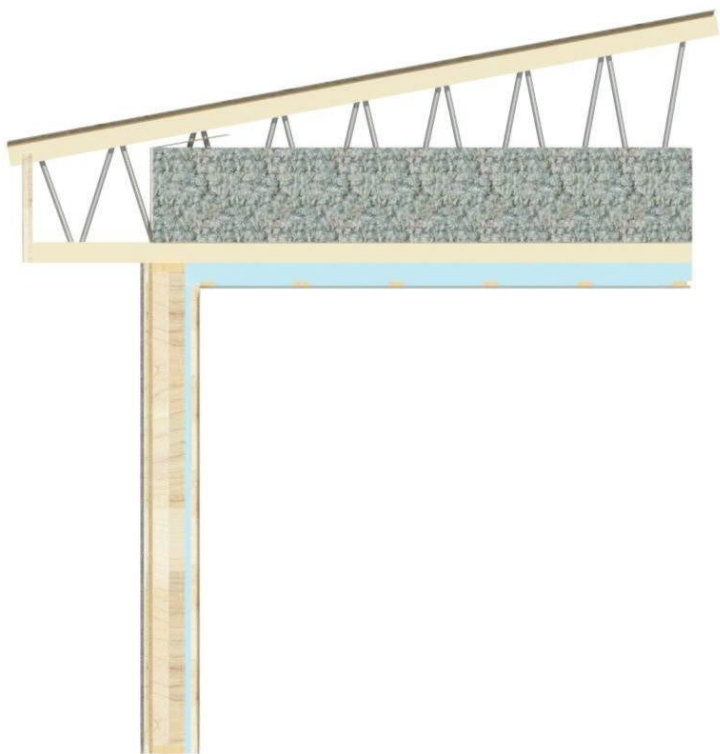


FLOOR INSULATION



CEILING INSULATION (FLAT OR CATHEDRAL)

Flat ceiling



Cathedral ceiling



GUI-SH-1605