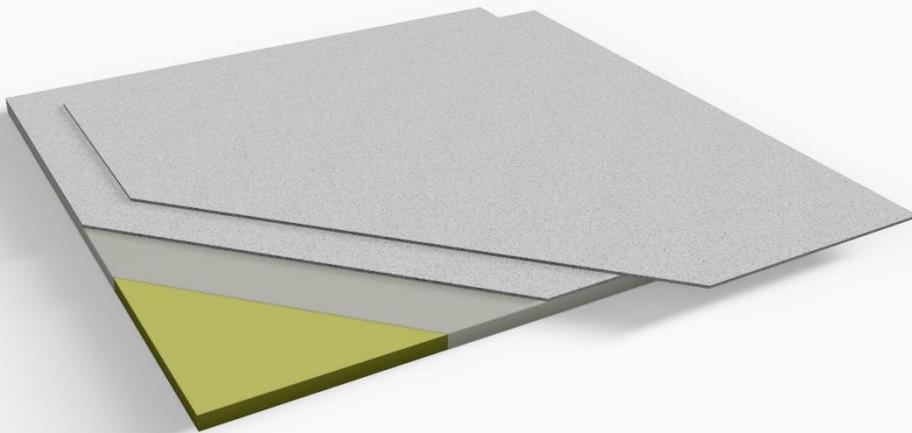


E-Therm SLIM

INSULATED DRY FLOOR SYSTEM



- A1 Non-Combustible Finish.
- Water Resistant Surface
- Can be cut to size on site,
- Supplied ready to accept any finish
- Easy to Handle and Install
- No wet screeds required



enviroform

How to add insulation to your floor when excavation isn't an option and space is limited.

Heat loss through a solid floor can cost you money and drastically reduce the energy efficiency of your home.

Many older homes or garages will have ground floors made from either uninsulated or poorly insulated solid concrete. We can treat these solid floors with **E-Therm Slim** to increase comfort levels and too save Money

E-Therm Slim is a floor insulation panel, specifically designed for solid floors where space is limited, and excavating is not an option. **E-Therm Slim** will raise your floor level by 42 mm/52mm.

The panel consists of a 2x6mm ship lapped and bonded to foiled faced PIR insulation. No special tools or precautions are required when fitting the panels and can be cut to the required shapes and size.

Domestic furniture can placed on top of the **E-Therm Slim** which is compatible with all floor finishes and under-floor heating systems. It is supplied in a 1200x1200 panel to allow for fast installation.



Fig 1: Flexible tile adhesive



Fig 2 E-Therm Slim ship lapped on flexible tile adhesive



Fig 3 E-Therm Slim Installed

Thermal Performance

U-Value Before Insulation	P/A	30mm PIR	40mm PIR
0.36	0.2	0.23	0.20
0.42	0.25	0.25	0.22
0.48	0.3	0.26	0.23
0.53	0.35	0.28	0.24
0.58	0.4	0.29	0.25
0.67	0.5	0.31	0.26
0.75	0.6	0.32	0.27
0.82	0.7	0.33	0.28

NB When calculating Uvalues to BS / I.S. EN ISO 6946: 2007, the type of mechanical fixing used may change the thickness of insulation required. The use of carbons steel fasteners of cross sectional area 4 mm² has been assumed at a density of 16.7 per m².

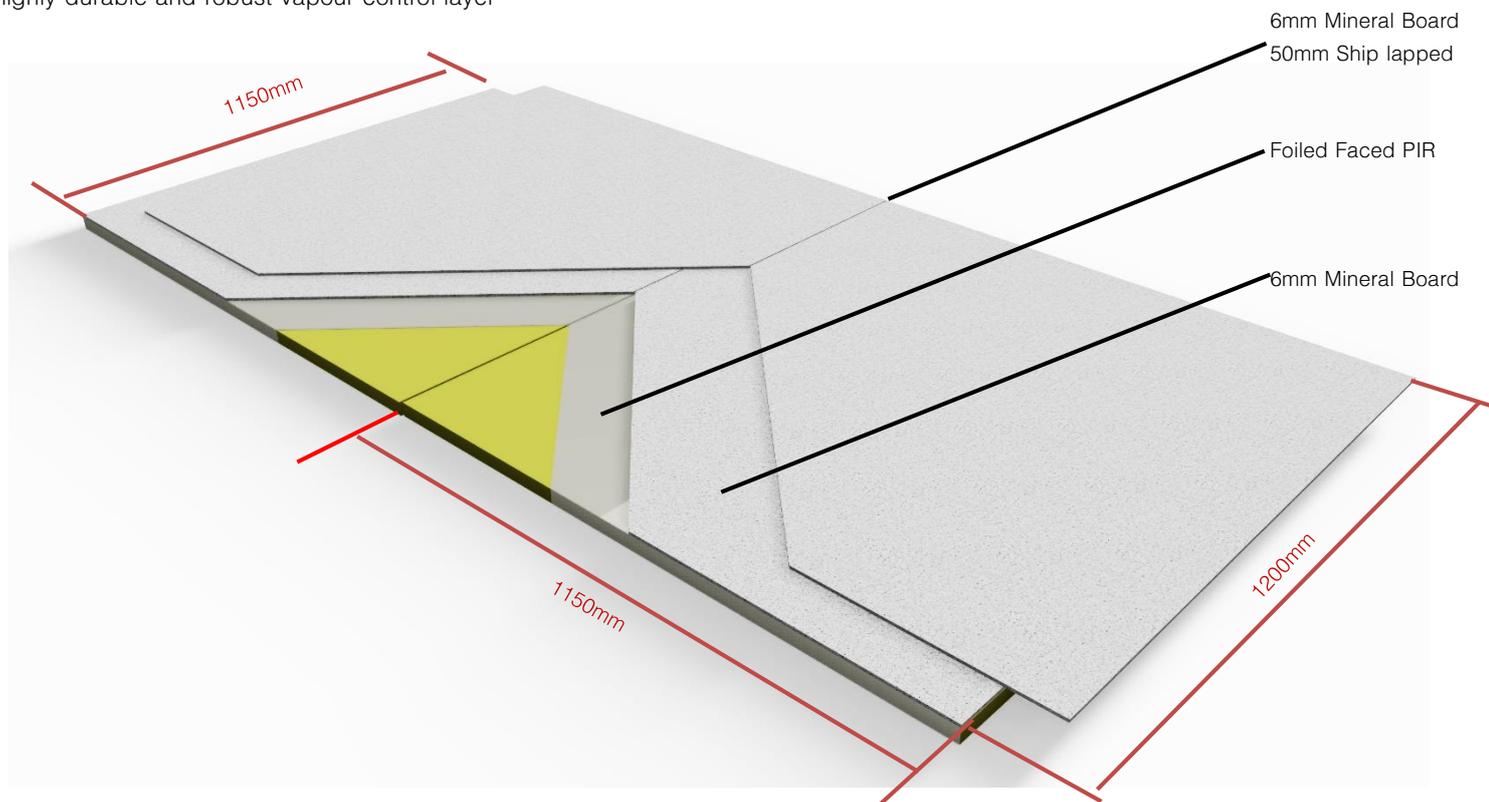
NB For the purposes of these calculations the standard of workmanship has been assumed good, and therefore the correction factor for air gaps has been ignored.

NB The figures quoted are for guidance only. A detailed Uvalue calculation and a condensation risk analysis should be completed for each project.

Assumptions

The U-values in the tables that follow have been calculated, under a management system certified to the BBA Scheme for Assessing the Competency of Persons to Undertake U-value and Condensation Risk Calculations, using the method detailed in BS / I.S. EN ISO 6946: 2007 (Building components and building elements. Thermal resistance and thermal transmittance. Calculation method), and using the conventions set out in BR443 (Conventions for U-value calculations). They are valid for the constructions shown in the details immediately above each table.

These examples are based on the use of 3 mm High Impact board bonded to 10mm,20mm PIR which is subsequently wrapped in a highly durable and robust vapour control layer



Laying E-Therm Slim PIR Flooring

- Once the floor is level, clean and free of loose debris prepare the first board.
- Apply enough flexible tile adhesive evenly for one panel. (See Fig 1 page 1)
- Trim 50mm off the shiplap edges.
- The first board should be laid in the left hand corner of the room. The short edge of the panel (A) should align with the short side of the floor (1) and the long edge of the panel (B) should align with the long side of the floor (2), Before laying second panel run a bead of Magnaseal on the bottom 6mm board on the first panel to create a seal. (See Fig 2 page 1)

The board may need to be altered if the corner of the room is not totally square.

- Measure and Mark the panel to the size required.
- Cut across the panel using a handsaw or circular Saw.

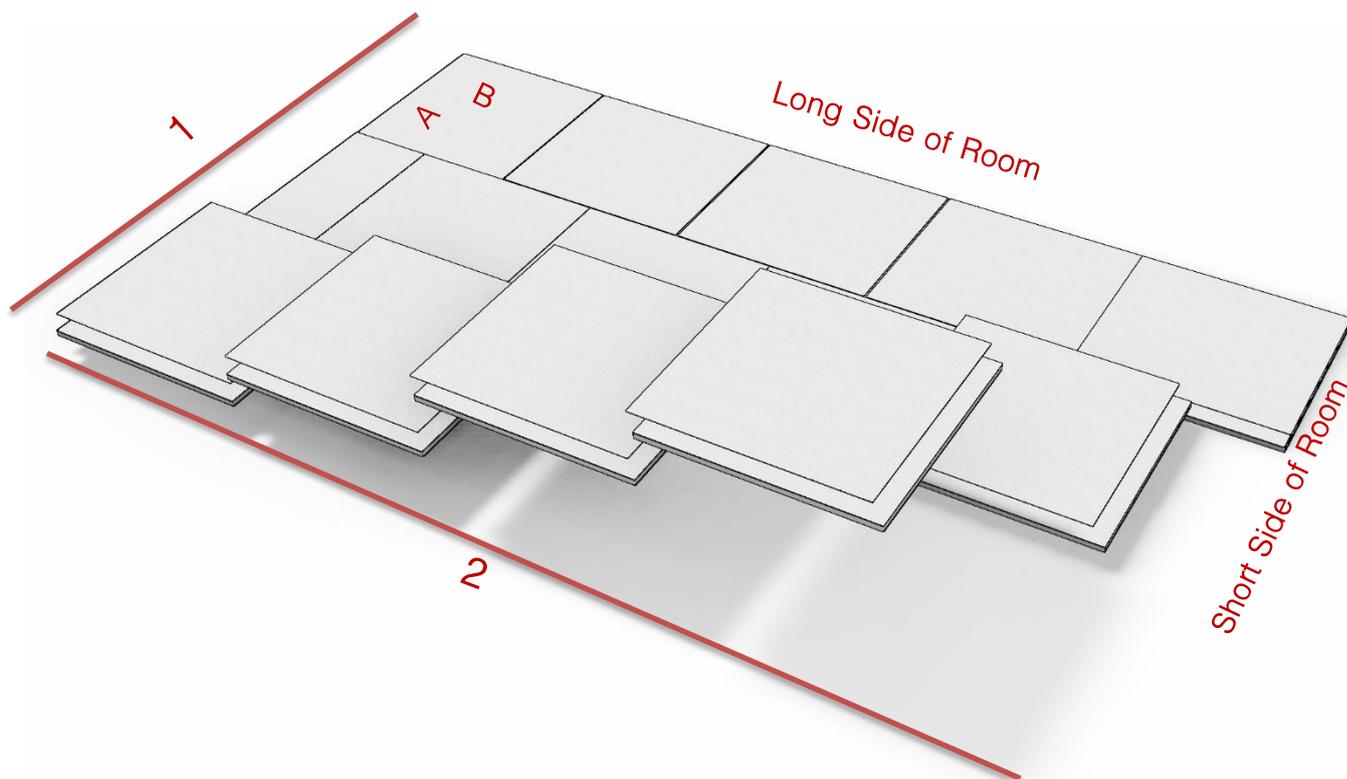
Allow a 3-5mm expansion gap around the perimeter of the floor if required.

- Continue laying the boards in this manner until the first row is complete. Cut the final board if required
- Use the offcut from the final board in the first row to start the second row.

Minimum size of stagger in joints is 150mm

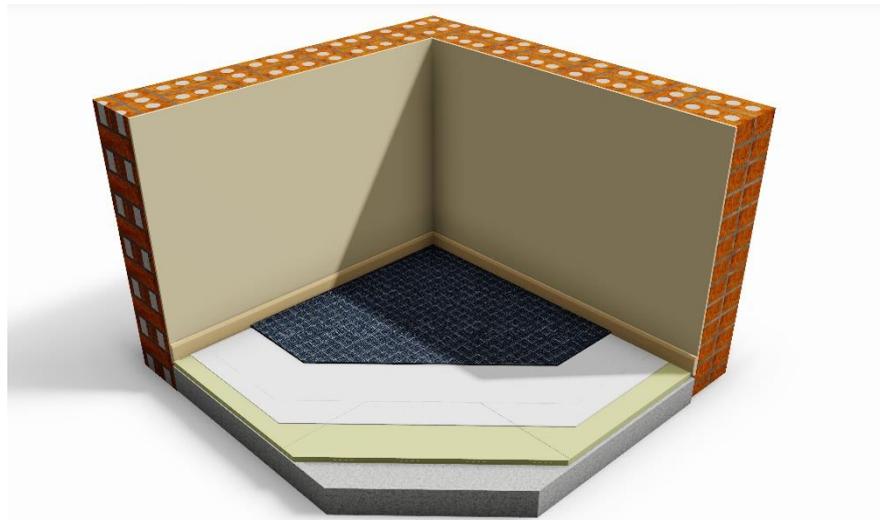
Minimum size of offcut to use should be no less than 150mm x 1200mm

- Continue the steps above until the floor area is covered. Cut the final row of panels if required
- Using Magnaseal fill all the joints between boards and scrap off excess



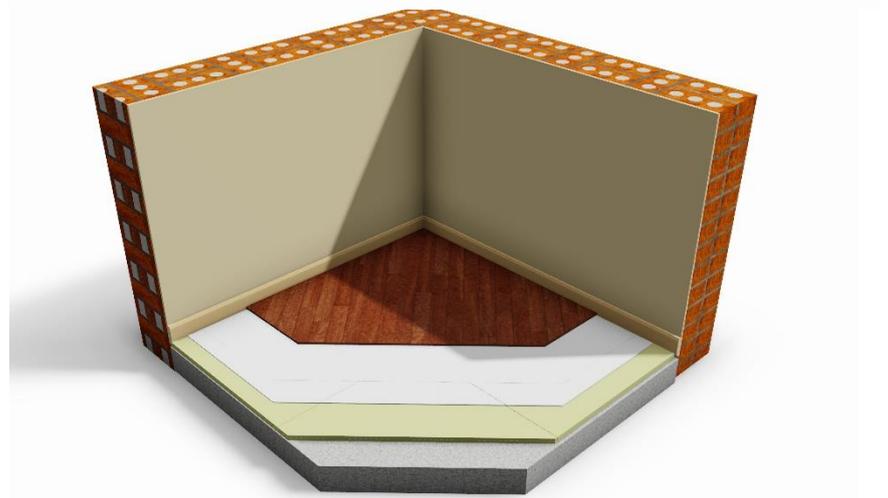
Carpets & Vinyls

By using Instalays self-adhesive underlay, carpets can be securely fitted without the need for glue and edge fixed carpet grippers. The high impact layer of the **E-Therm Slim**'s panel provides protection for the insulation layer against point loadings like heavy furniture and bedding.



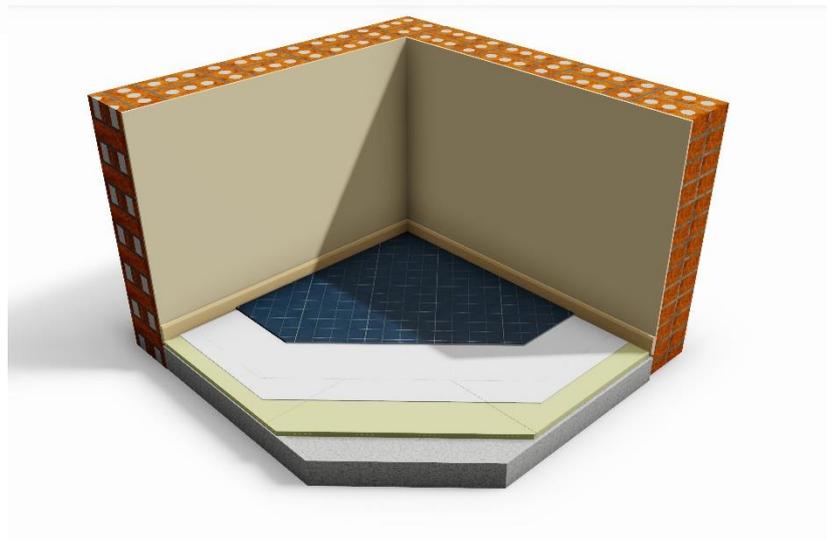
Laminate / Floating Floors

Floating floors can be laid on top of the **E-Therm Slim** panels, however for best results we would recommend using a high quality underlay, preferably Instalay adhesively fitted floors perform better for a longer period of time.



Ceramic Tiles

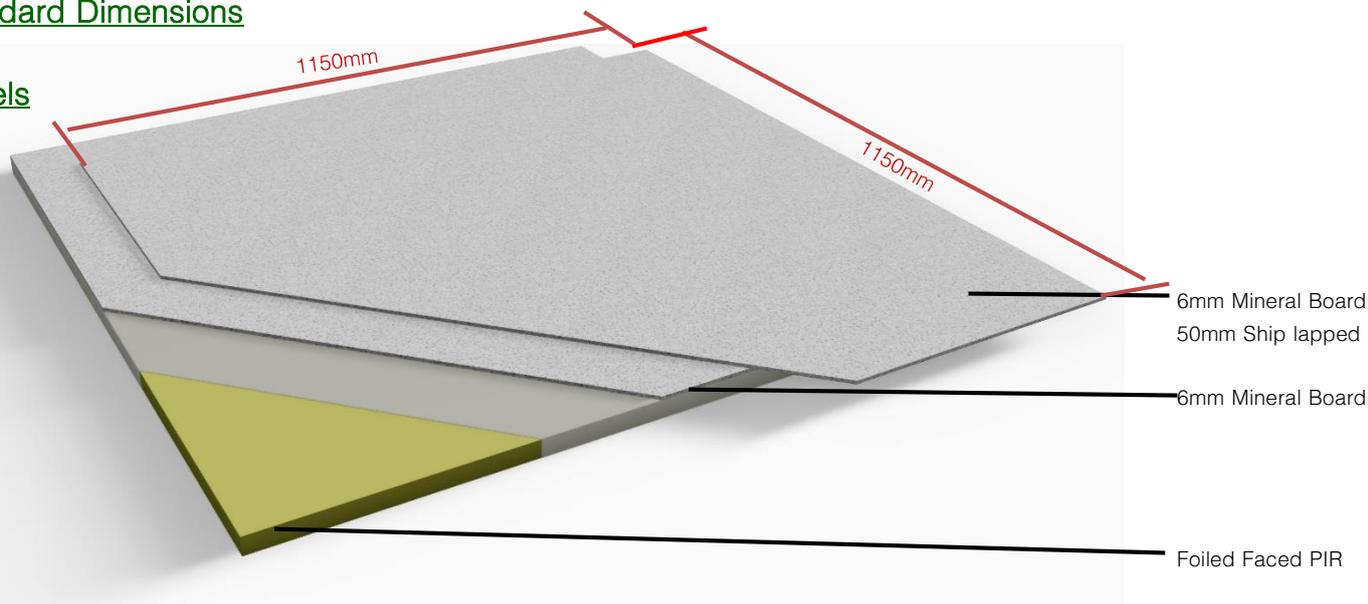
Tiles can be laid onto the floor using a flexible tile adhesive and recommended primer.



PRODUCT DETAILS

Standard Dimensions

Panels



42mm x 1150mm x 1150mm - 50mm Shiplap

52mm x 1150mm x 1150mm - 50mm Shiplap

Availability

E-Therm Slim PIR Flooring is available throughout Ireland and the UK please contact us for orders

Handling and Storage

Packs of **E-Therm Slim** PIR Flooring is delivered to site wrapped in polythene.

Store panels in original packaging till ready to use

Health and Safety

The product is chemically inert and safe to use.

For Further Information

To discuss insulation in your home call us on

+44 (0)28 4177 3314

Email: info@enviroformsolutions.com

Web: <http://www.enviroformsolutions.com>

TELEPHONE

+44 (0)28 4177 3314

EMAIL

info@enviroformsolutions.com



enviroform
www.enviroformsolutions.com

ADDRESS

16 Milltown Industrial Estate
Upper Dromore Road
Warrenpoint
Co Down
BT34 3PN