

Sundolitt


A Business Built on Air

XPS Flooring

Ground Floor Insulation

Sundolitt XPS Flooring provides excellent thermal performance and high compressive strength. Suitable for use in domestic and non-domestic ground floor applications.


XPS Benefits

 High compressive strengths up to 700 kPa

 Excellent thermal insulating properties

 Resistant to freeze/thaw

 Flame Retardant available

 ODP = 0 GWP = <5

 Rated A in BRE Green Guide

 Fully Recyclable

Product Information

Sundolitt XPS Flooring is available in the following standard sheet sizes.

Standard Sizes Available

Dimensions (mm)	Length	Width
Rebated Edge	2385	585
Square Edge	2400	600


Thickness	30, 40, 50, 60, 75, 80, 100, 120, 130, 140, 150 and 160mm
-----------	---


Boards are delivered wrapped and should be stored on a flat surface, preferably under cover.



Accreditation

Sundolitt XPS Flooring is manufactured in accordance with BS EN ISO 13164.

 QMS
ISO 9001
Registered Company

 EMS
ISO 14001
Registered Company

EPD Certificate – nepd-396-274-EN – demonstrates the excellent environmental performance of Sundolitt XPS which has emissions of 0.0073 kg CO₂ calculated in accordance with ISO 14025.

BBA Approved for use as ground floor insulation Certificate No. 21/5868. Installed below concrete slab or above slab with screed or timber based board finish.



Why Choose XPS

Our XPS Flooring provides a cost effective solution where high strength and thermal performance are needed.

The exceptionally high compressive strength and durability makes this the ideal insulation for floors where racking systems and fork lift trucks impose high loads such as cold stores and warehouses.

Sundolitt XPS offers long term performance with no degradation of its critical physical properties over time. It will remain an effective insulation for the lifetime of the building into which it is installed.

XPS Flooring is easy to install and requires no special PPE when handling and cutting.

CONTACT US

 01786 471586

 enquiriesuk@sundolitt.com

 www.sundolitt.com

XPS Flooring

Ground Floor Insulation

Installation

When installing Sundolitt XPS Flooring below the concrete slab the DPM may be placed above or below the insulation.

Where the DPM is placed below the insulation a suitable VCL should be placed over the insulation to prevent grout ingress into the board joints when pouring the concrete slab.

XPS Flooring may also be placed above the slab with a screed or timber based board overlay.

The surface to receive the insulation boards should be level and even, any minor discrepancies may be levelled with a thin screed. Below concrete slab the insulation boards may be laid on compacted, sand blinded ground or hardcore.

Boards are placed tightly butted together with no gaps. When placing more than one layer each should be cross laid to break the board joint line and reduce the risk of thermal bridging.

To ensure continuous insulation the boards are cut to fit around pipes or other penetrations. The insulation boards may be cut to size using a fine toothed saw.

Perimeter edge boards are cut and placed vertically around the edge of the floor to the depth of the concrete slab or screed finish.

A suitable vapour control membrane is placed over the insulation boards with joints lapped and taped. The membrane should be turned up 100mm at the perimeter.

The concrete slab or floor finish is placed over the VCL to the depth in accordance with design requirements.



Additional Information

Our BBA Certificate for Sundolitt XPS Flooring contains further details for handling, storage and installation. This can be downloaded here.



Thermal Resistance Values (m²K/W)

Thickness (mm)	XPS200	XPS300	XPS500	XPS700
30	0.909	0.909		
40	1.212	1.212		
50	1.515	1.515	1.471	1.471
60	1.765	1.765	1.765	1.765
75	2.206	2.206		
80	2.353	2.353	2.353	2.353
100	2.778	2.778	2.778	2.778
120	3.077	3.077	3.077	3.077
130	3.333	3.333	3.333	3.333
140	3.590	3.590	3.590	3.590
150	3.846	3.846	3.846	3.846
160	4.103	4.103	4.103	4.103

Sundolitt XPS Flooring - Physical Properties

	XPS200	XPS300	XPS500	XPS700
Design Load at 2% nominal Compression (kPa)	90	140	225	250
Compressive Strength at 10% nominal Compression (kPa)	200	300	500	700
Thermal Conductivity (W/mK) at 50mm thickness	0.033	0.033	0.034	0.034

CONTACT US