



**THERMAL
INSULATION**

SOPRA XPS

SOPREMA INSULATION

SOPREMA DELIVERING MARKET LEADING INSULATION IN IRELAND

Insulation products and solutions manufactured by **SOPREMA**, installed all over the world. The **SOPRA XPS** insulation range has been developed specifically for the Irish construction industry, and is fully compatible with multiple **SOPREMA** roofing and waterproofing systems, providing industry professionals with a total insulation and waterproofing solution, from one single source, covered by the **SOPRACOVER** Insurance backed single point warranty.

SOPRA XPS insulation, is an industry leading range of extremely high performance, extruded polystyrene (XPS) closed cell insulation boards, suitable for many demanding and varied insulation applications including inverted and green roofs, floors, walls and below ground works.



ENERGY EFFICIENCY

Boasting impressive thermal conductivity, **SOPRA XPS** Lambda values guarantee high thermal insulation performance year after year and can be used in areas where other types of insulation cannot perform. The **SOPRA XPS** range has thermal conductivity ratings as low as 0.029W/mk enabling thinner board thicknesses to be utilised.

COMPRESSIVE STRENGTH





Designed for applications where additional load bearing capability is required, **SOPRA XPS** provides exceptional compressive strength in the most challenging environments; under slabs, concrete floors, foundations, plaza and podium decks and is also suitable for cold storage applications and underground works.

WARRANTY

SOPREMA offer the **SOPRACOVER** Insurance-backed, single-point warranty on all **SOPRA XPS** products. **SOPRA XPS** is fully compatible with **SOPREMA** waterproofing systems, a single-point total waterproofing and insulation warranty can be supplied when **SOPRA XPS** is installed together with **SOPREMA** waterproofing.

INSULATION

SELECTION GUIDE

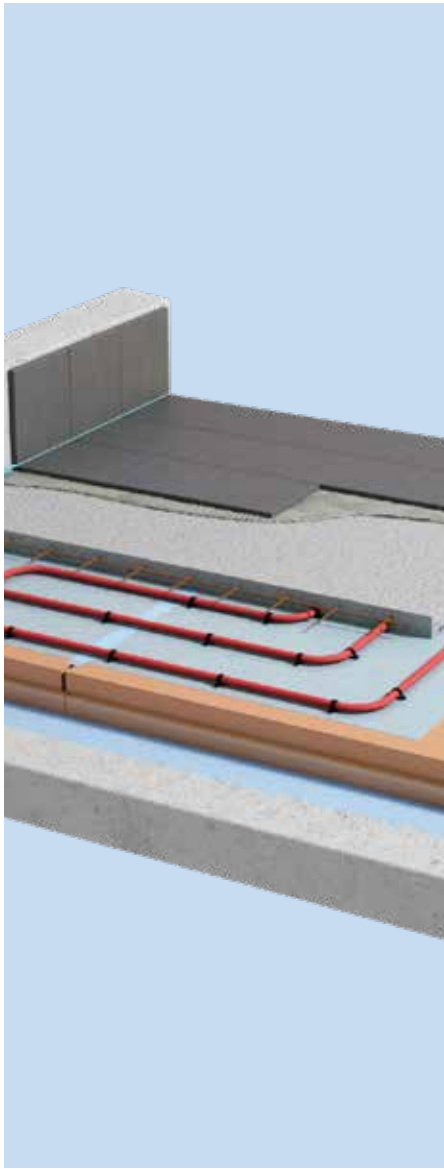
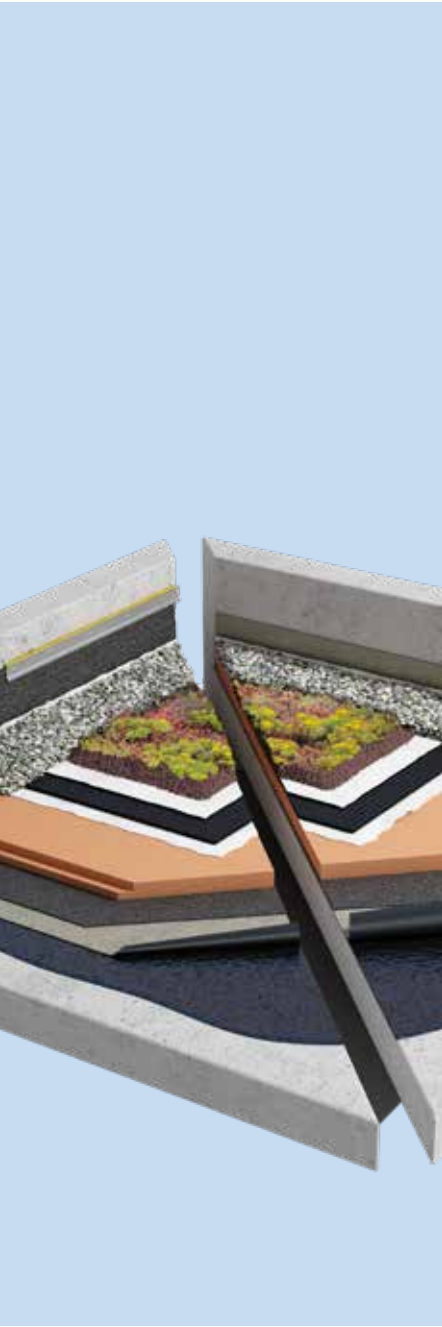
		ROOF		FLOOR	P.
	FOUNDATION WALL	SARKING ROOF	FLAT ROOF		
					
SOPRA XPS SL	λ	λ	λ	λ	10
SOPRA XPS 500			λ	λ	11
SOPRA XPS 700			λ	λ	12
SOPRA XPS PROTECT ARTIC C	λ		λ		13
ROOF 115			λ		13



SOPRA XPS INSULATION: WIDE APPLICATIONS FOR THE COMPLETE BUILDING ENVELOPE

A GREEN SPACE

Rainwater attenuation in built up cities should be a design consideration, green roofs can provide roof top habitats for insects and birds, also managing rainwater discharge by storing water at roof level.

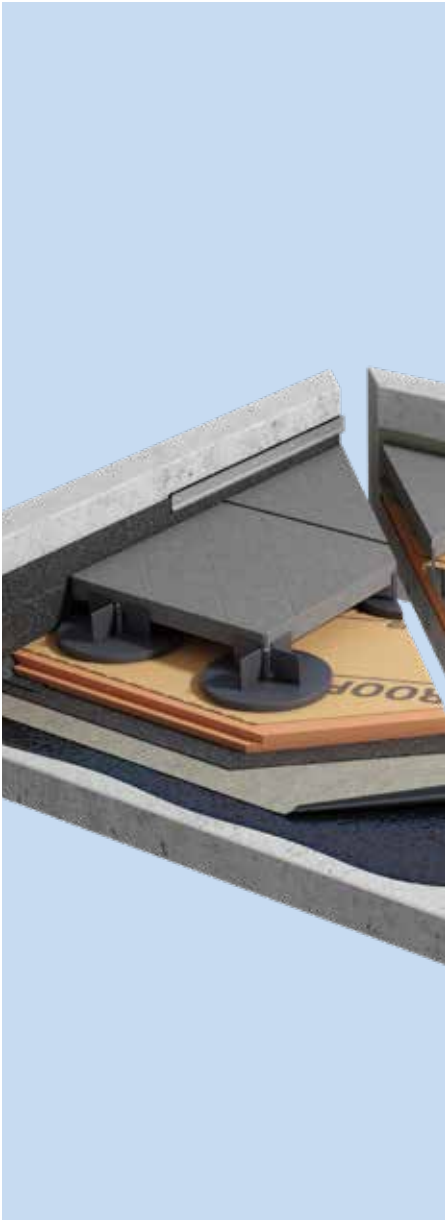


PRESSURE RESISTANT SOPRA XPS

More than 25% of the total energy lost within a building, goes through poorly insulated floors. Due to its moisture resistance and excellent compressive strength properties (300 - 700 kPa), SOPRA XPS is the ideal insulation material for floors which have to deal with high loads.

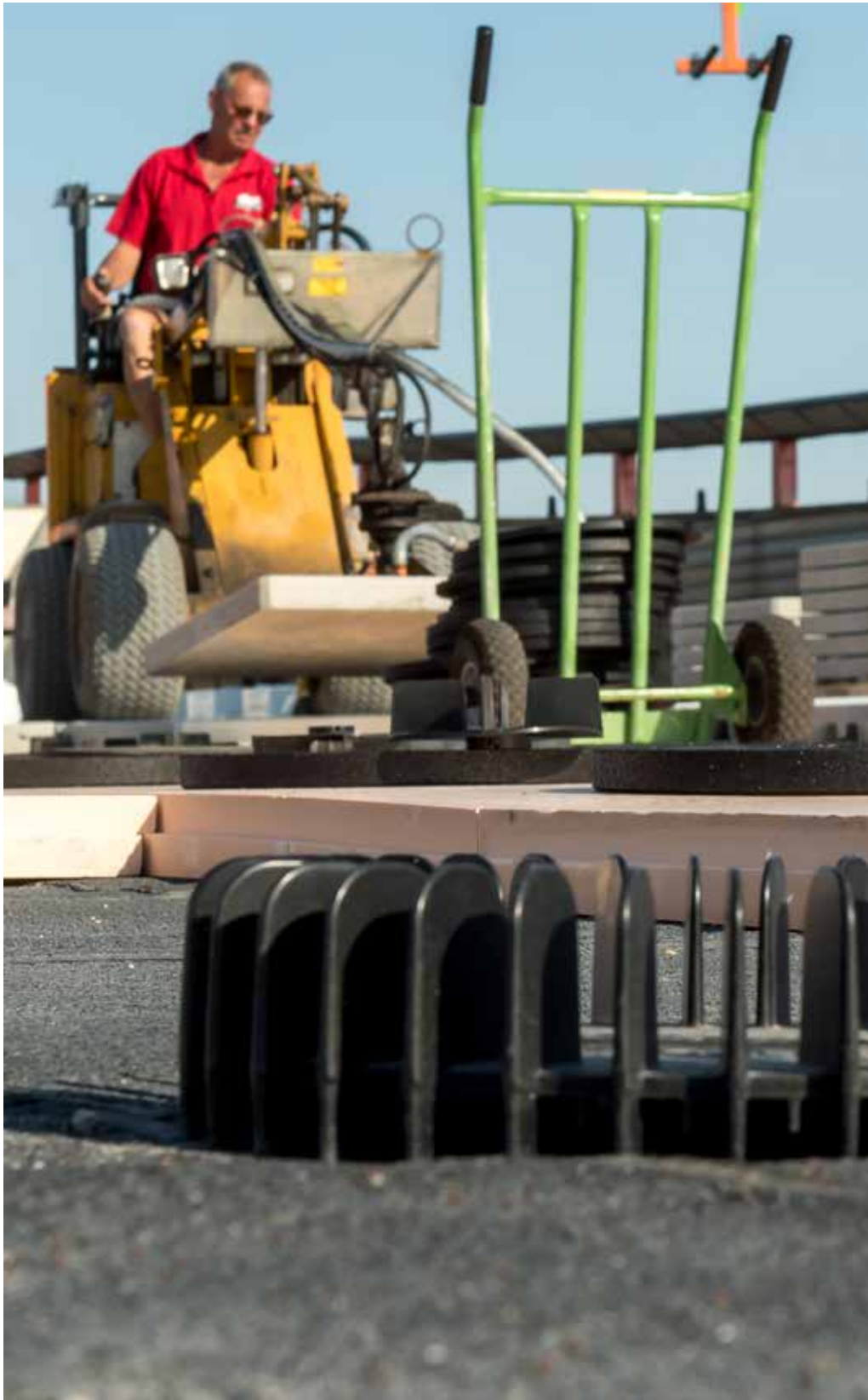
ROOF TOP CAR PARKS

When a roof top car park requires insulation the compressive strength of SOPRA XPS means vehicular access is not an issue. The combination of a liquid waterproofing system with a bituminous vapour barrier and SOPRA XPS insulation also ensures a better load capacity (700 kPa).



A FIRM FOUNDATION

Foundation walls are renowned for their complexity and can cause problems on site. Good project preparation is extremely important. First of all, it is important to consider how the foundation wall compares relative to the groundwater level. For waterproofing foundation walls located above the level of the water table, the possibilities include flame-less and welded systems. Foundation walls can be sealed with the Colphene 1500 self-adhesive waterproofing membrane. This is an innovative SBS bitumen based membrane with an extremely strong adhesive strength and is simple to use. This ready-to-use solution for foundation walls is also very safe thanks to its flame-less application.



ADVANTAGES OF SOPRA XPS

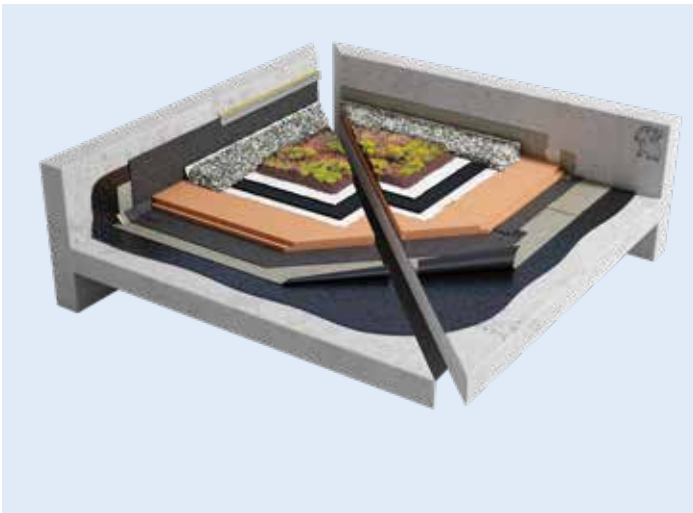
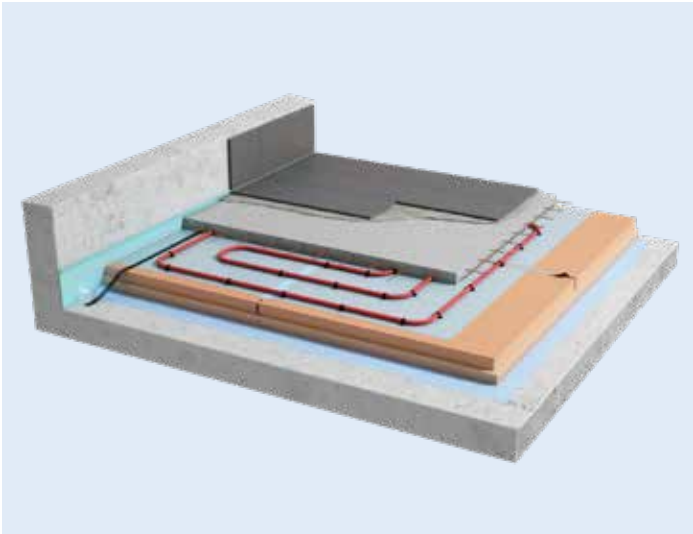
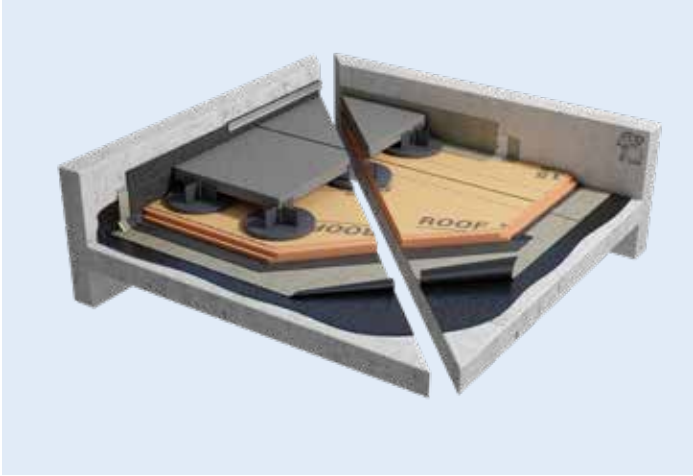
- + Excellent moisture resistance
- + Exceptional compressive strength
- + Outstanding energy efficiency
- + Resistant to fungi and micro-organisms
- + Lightweight and easy to cut and process
- + Application versatility
- + 100% recyclable
- + Total waterproofing & Insulation solution – compatible with SOPREMA waterproofing

SUSTAINABLE MANUFACTURING

Following the SOPREMA ‘ECOSTRUCTION’ initiatives to reduce carbon emissions and use of raw materials in product manufacturing, the production process utilises reuse of recycled materials and uses SOPREMA climate-friendly propellants during the manufacture of SOPRA XPS products meeting BREEAM A and A+ ratings.

EXPERTISE

Experts in the manufacture of waterproofing and insulation systems, SOPRA XPS insulation has been designed and developed by SOPREMA, with extreme performance in mind. The closed cell structure of SOPRA XPS insulation boards delivers extremely high compressive strength and outstanding thermal performance properties.



SOPRA XPS 500

SOPRA XPS 500 is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO₂ technology. SOPRA XPS 500 is mainly used as thermal insulation including floors and car parks where a high compressive strength is required.





SOPRA XPS SL

SOPRA XPS SL is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO₂ technology. SOPRA XPS SL is mainly used as thermal insulation including flat and pitched roofs, floors and underground constructions. On flat roofs the system must be ballasted.

Dimensions (mm)	1250 x 600
Finish	Edge profile: rebate edge surface: smooth
Application	
Fire reactivity	E
Compressive strength	≥ 300 kPa
Long-term Water absorption by Immersion (EN12087)	WL(T)0,7

Thickness (mm)	30	40	50	60	80	100	120	140
Thermal resistance RD: (m².K/W)	0,90	1,20	1,50	1,80	2,25	2,85	3,40	4,00
Boards/pack	14	10	8	7	5	4	3	
m²/pack	10,50	7,50	6	5,25	3,75	3	2,25	
Packs/pallet	12						14	12
m²/pallet	126	90	72	63	45	36	31,50	27
Thermal conductivity (W/(m.K))	0,033				0,035			

Thickness (mm)	160	180	200	220	240	260	280	300
Thermal resistance RD: (m².K/W)	4,55	5,10	5,70	6,10	6,65	7,20	7,75	8,30
Boards/pack	2				1			
m²/pack	1,50				0,75			
Packs/pallet	16	14	12		20	18	16	
m²/pallet	24	21	18		15	13,50	12	
Thermal conductivity (W/(m.K))	0,035			0,036				

In addition to the default pallet, there is also a “jumbo” pack, composed of 2x2 pallets.



SOPRA XPS 500

SOPRA XPS 500 is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO₂ technology. SOPRA XPS 500 is mainly used as thermal insulation including floors and car parks where a high compressive strength is required.

Dimensions (mm)	1250 x 600
Finish	Edge profile: rebate edge surface: smooth
Application	
Fire reactivity	E
Compressive strength	≥ 500 kPa
Long-term water absorption by immersion (EN 12087)	WL(T)0,7

Thickness (mm)	40	50	60	80	100	120	140	160
Thermal resistance RD: (m².K/W)	1,20	1,50	1,80	2,25	2,85	3,40	4,00	4,55
Boards/pack	10	8	7	5	4	3		2
m²/pack	7,50	6	5,30	3,80	3	2,25		1,50
Packs/pallet	12					14	12	16
m²/pallet	90	72	63	45	36	31,50	27	24
Thermal conductivity (W/(m.K))	0,033			0,035				

Thickness (mm)	180	200	220	240	260	280	300
Thermal resistance RD: (m².K/W)	5,10	5,70	6,10	6,65	7,20	7,75	8,30
Boards/pack	2			1			
m²/pack	1,50			0,75			
Packs/pallet	14	12		20	18	16	
m²/pallet	21	18		15	13,50	12	
Thermal conductivity (W/(m.K))	0,035		0,036				

In addition to the default pallet, there is also a “jumbo” pack, composed of 2x2 pallets.



SOPRA XPS 700

SOPRA XPS 700 is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO₂ technology. SOPRA XPS 700 is mainly used as thermal insulation including floors and car parks where a very high compressive strength is required.

Dimensions (mm)	1250 x 600
Finish	Edge profile: rebate edge surface: smooth
Application	
Fire reactivity	E
Compressive strength	≥ 700 kPa
Long-term water absorption by immersion (EN 12087)	WL(T)0,7

Thickness (mm)	50	60	80	100	120	140	160
Thermal resistance RD: (m².K/W)	1,50	1,80	2,25	2,85	3,40	4,00	4,55
Boards/pack	8	7	5	4	3		2
m²/pack	6,00	5,25	3,75	3	2,25		1,50
Packs/pallet	12				14	12	16
m²/pallet	72	63	45	36	31,50	27	24
Thermal conductivity (W/(m.K))	0,033		0,035				

Thickness (mm)	180	200	220	240	260	280	300
Thermal resistance RD: (m².K/W)	5,10	5,70	6,10	6,65	7,20	7,75	8,30
Boards/pack	2			1			
m²/pack	1,50			0,75			
Packs/pallet	14	12		20	18	16	
m²/pallet	21	18		15	13,50	12	
Thermal conductivity (W/(m.K))	0,035		0,036				

In addition to the default pallet, there is also a “jumbo” pack, composed of 2x2 pallets.



SOPRA XPS PROTECT ARTIC C

XPS Protect Artic C is a rigid thermal insulation board made of extruded polystyrene (XPS) foam with a hard cement-based facing on one side. XPS Protect Artic C is mainly used for upstands of flat roofs and underground walls.



0,036

Thickness (mm)	50	60	80	100	120
Thermal resistance RD: (m².K/W)	1, 75	2,10	2,75	3,45	4,15
Boards/pallet	44	38	28	22	18
m²/pack	31,15	26,90	19,82	15,58	12,74
Thermal conductivity (W/(m.K))	0,029				



ROOF 115

A waterproof and damp-permeable geotextile of non-woven polypropylene. It is used as a separation and protection layer on inverted roofs.

ADVANTAGES

- + Thermal improvement of the roof: up to 20%
- + Prevents the water to penetrate to the waterproofing layer
- + High resistance to bacteria, rot and bitumen
- + UV resistance

Composition	non woven polypropylene
Mass	120 g/m²
Dimensions of the roll (m)	50 x 1,5
Mass/roll	9 kg

SOPREMA at your service:

Do you have a question about a specific project, the products or application possibilities? Then contact our technical team.

All information can be found on:
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