

**EFYOS**  
by SOPREMA



**THERMAL  
INSULATION**

**XPS**



**SOPREMA**  
GROUP



# EFYOS XPS

## EFYOS A GLOBAL BRAND DELIVERING MARKET LEADING INSULATION IN THE UK

**EFYOS** is a global brand of Insulation products and solutions manufactured by **SOPREMA**, installed all over the world. The **EFYOS XPS** Insulation range has been developed specifically for the UK 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.

**EFYOS 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, **EFYOS 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 **EFYOS 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, **EFYOS 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 **EFYOS XPS** products. **EFYOS XPS** is fully compatible with **SOPREMA** waterproofing systems, a single-point total waterproofing and insulation warranty can be supplied when **EFYOS XPS** is installed together with **SOPREMA** waterproofing.



# INSULATION

## SELECTION GUIDE

|              | WALL  |  |   | ROOF  |   | FLOOR   | FAÇADE  | P. |
|--------------|---|--|---|---|---|---|---|----|
|              | INTERIOR WALL   | CAVITY WALL  | FOUNDATION WALL   | SARKING ROOF  | FLAT ROOF   |   |   |    |
|              |  |  |  |  |  |  |  |    |
| XPS SL       |   |  | $\lambda$   | $\lambda$   | $\lambda$   | $\lambda$   |   | 10 |
| XPS SL ARTIC |   |  | $\lambda$   | $\lambda$   | $\lambda$   | $\lambda$   |   | 11 |
| XPS CW       | $\lambda$   | $\lambda$  |   | $\lambda$   |   |   | $\lambda$   | 12 |
| XPS CW ARTIC | $\lambda$   | $\lambda$  |   | $\lambda$   |   |   | $\lambda$   | 13 |
| XPS CB       | $\lambda$   |  |   |   |   |   |   | 13 |
| XPS 500      |   |  |   |   | $\lambda$   | $\lambda$   |   | 14 |
| XPS 700      |   |  |   |   | $\lambda$   | $\lambda$   |   | 15 |
| ROOF 115     |   |  |   |   | $\lambda$   |   |   | 15 |

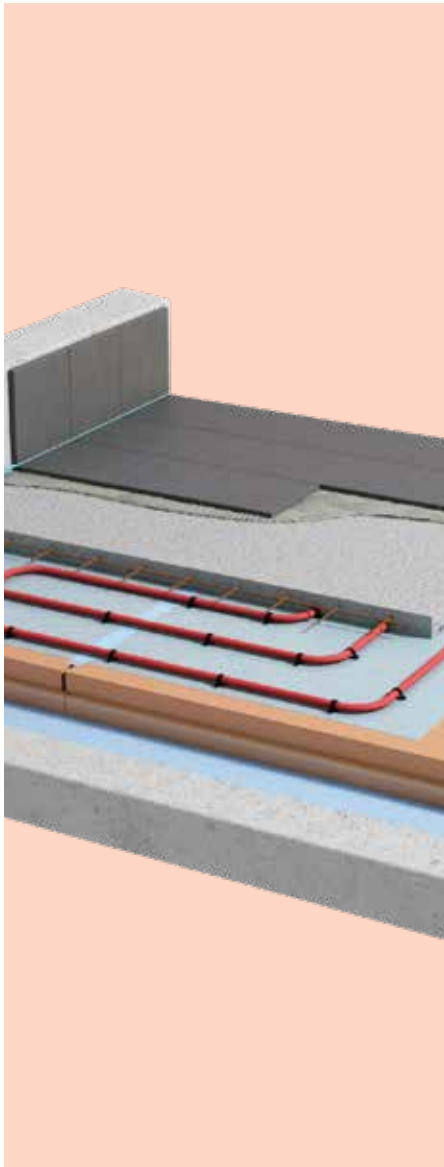
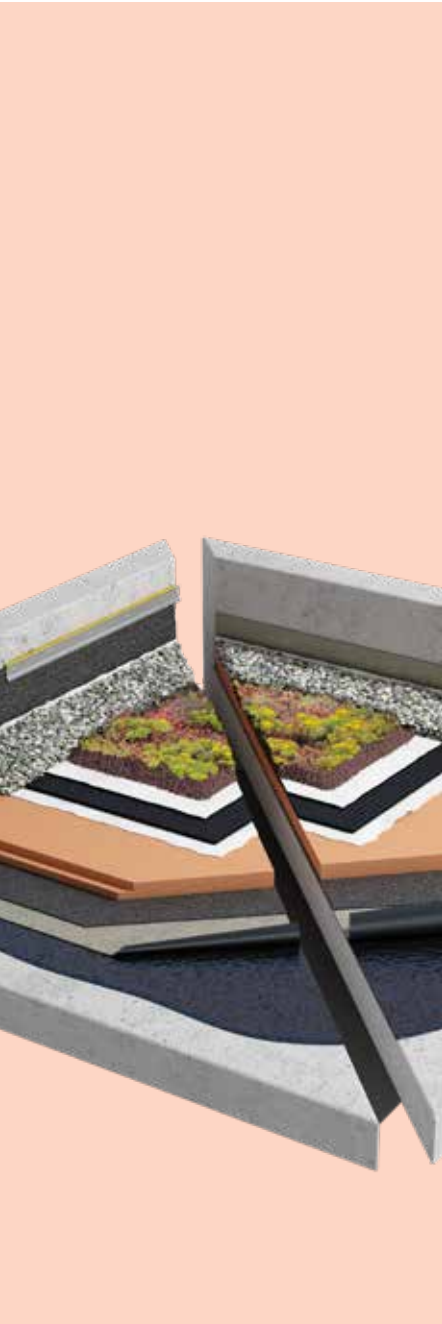




# XPS INSULATION: WIDE APPLICATIONS FOR THE COMPLETE BUILDING ENVELOPE

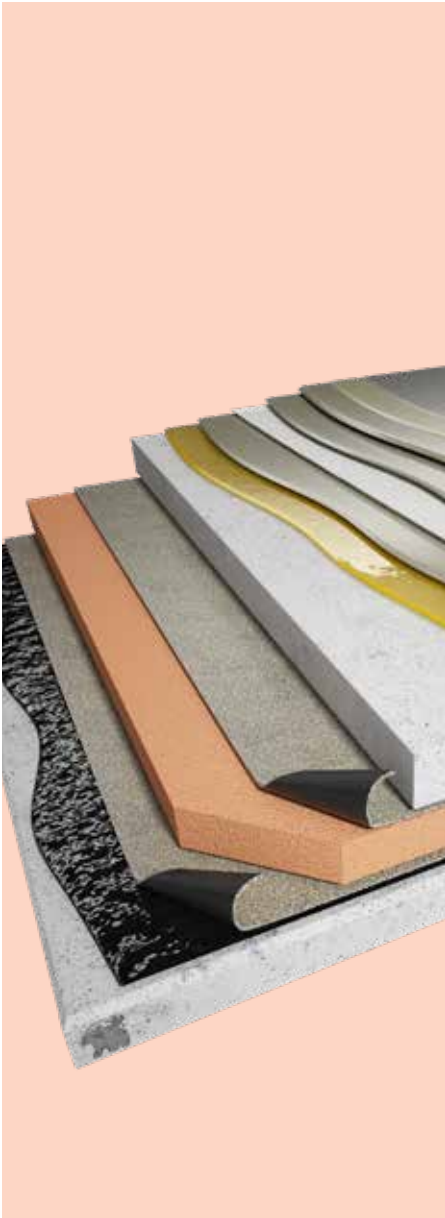
## A GREEN SPACE

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.



## ROOF TOP CAR PARKS

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



## PRESSURE RESISTANT 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), XPS is the ideal insulation material for floors which have to deal with high loads.



## 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 XPS

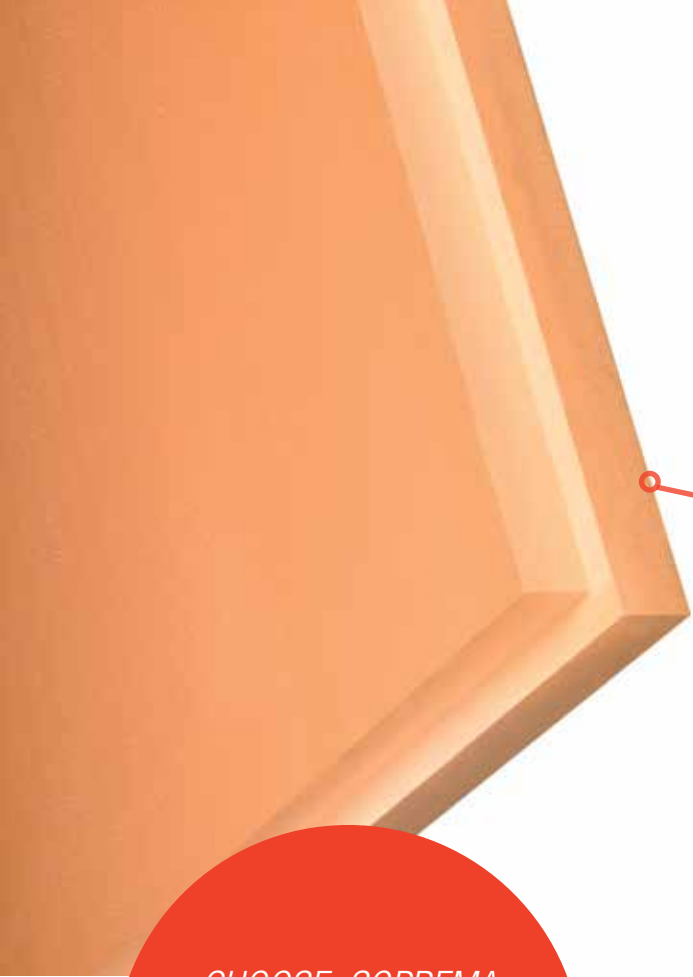
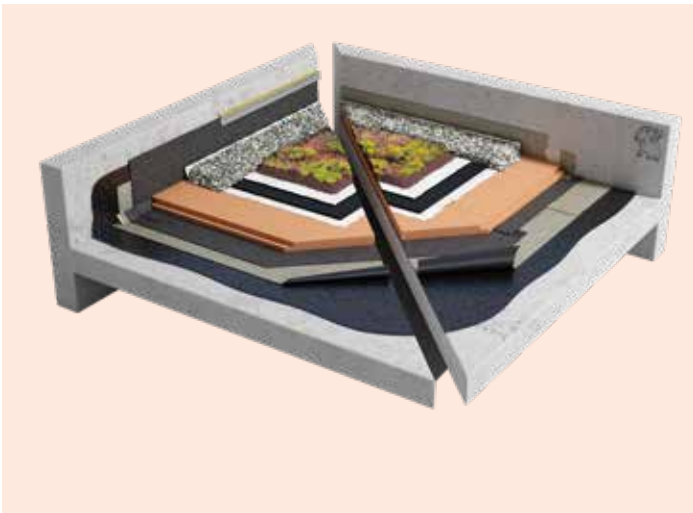
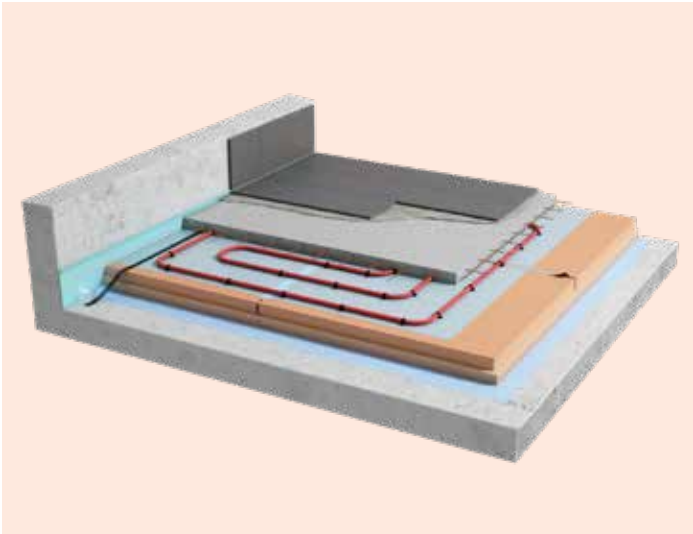
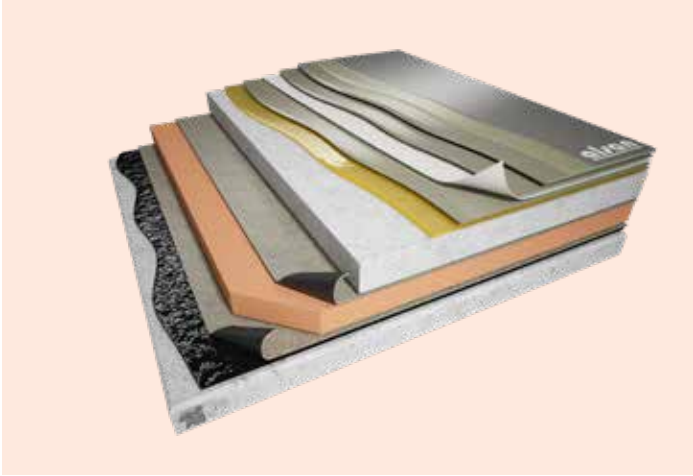
- + Excellent moisture resistance
- + Exceptional compressive strength
- + Outstanding energy efficiency
- + Resistant to fungi and micro-organisms
- + Lightweight and easy to cut and process
- + Application versatility
- + 100% recyclable
- + Total waterproofing & Insulation solution – compatible with 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 EFYOS XPS products meeting BREEAM A and A+ ratings.

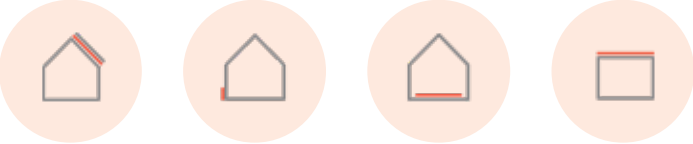
## EXPERTISE

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



### XPS SL ARTIC

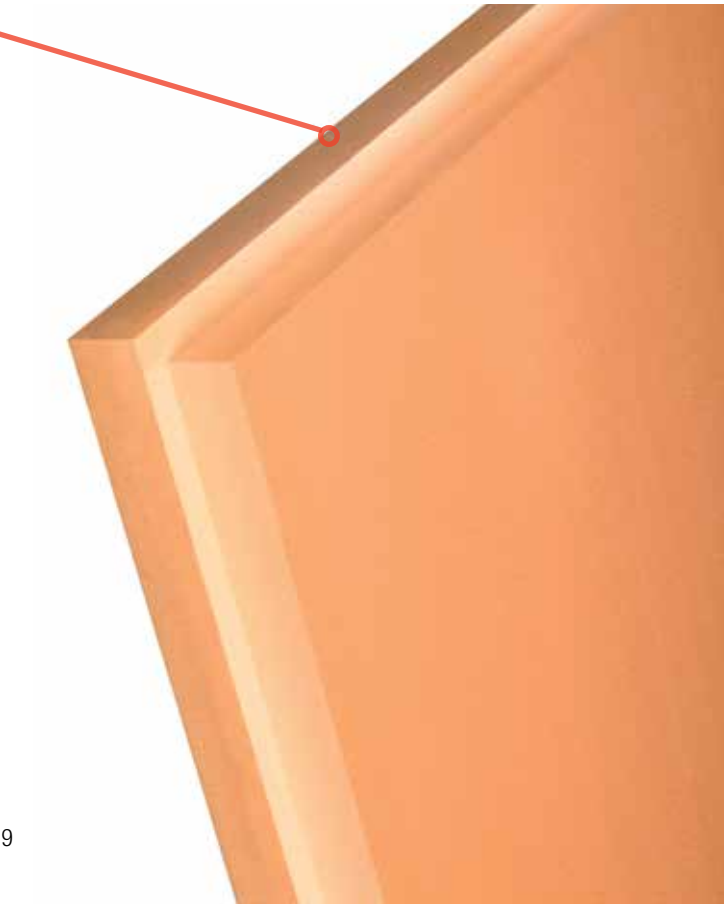
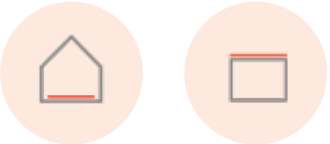
XPS SL ARTIC is a rigid thermal insulation board made of extruded polystyrene (XPS) foam with improved lambda. XPS SL ARTIC is mainly used as thermal insulation including flat and pitched roofs, floors and underground constructions. On flat roofs the system must be ballasted.



CHOOSE SOPREMA  
AS YOUR LOCAL  
SUPPLIER FOR YOUR  
ROOF COVERING AND  
INSULATION

### XPS 500

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





XPS SL

XPS SL is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO2 technology. 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<br>surface: smooth |
| Application   |  |
| Fire reactivity   | E  |
| Compressive strength                                    | ≥ 300 kPa                                    |
| Long-term<br>Water absorption by<br>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 | 3,35  | 3,90 |
| Boards/pack                     | 14    | 10   | 8    | 7    | 5     | 4    | 3     |      |
| m²/pack                         | 10,50 | 7,50 | 6    | 5,30 | 3,80  | 3    | 2,25  |      |
| Boards/pallet                   | 12    |      |      |      |       |      | 14    | 12   |
| m²/pallet                       | 126   | 90   | 72   | 63   | 45    | 36   | 31,50 | 27   |
| Thermal conductivity (W/(m.K))  | 0,033 |      |      |      | 0,035 |      | 0,036 |      |

|                                 |       |      |      |      |      |       |      |      |
|---------------------------------|-------|------|------|------|------|-------|------|------|
| Thickness (mm)                  | 160   | 180  | 200  | 220  | 240  | 260   | 280  | 300  |
| Thermal resistance RD: (m².K/W) | 4,45  | 5,00 | 5,55 | 6,10 | 6,65 | 7,20  | 7,75 | 8,30 |
| Boards/pack                     | 2     |      |      |      | 1    |       |      |      |
| m²/pack                         | 1,50  |      |      |      | 0,75 |       |      |      |
| Boards/pallet                   | 16    | 14   | 12   |      | 20   | 18    | 16   |      |
| m²/pallet                       | 24    | 21   | 18   |      | 15   | 13,50 | 12   |      |
| Thermal conductivity (W/(m.K))  | 0,036 |      |      |      |      |       |      |      |

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



XPS SL ARTIC

XPS SL ARTIC is a rigid thermal insulation board made of extruded polystyrene (XPS) foam with improved lambda. XPS SL ARTIC 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 (30 – 180 mm)<br>1250 x 500 (200mm) |
| Finish  | Edge profile: rebate edge<br>surface: smooth   |
| Application   |  |
| Fire reactivity   | E  |
| Compressive strength                                    | ≥ 300 kPa                                      |
| Long-term<br>Water absorption by<br>Immersion (EN12087) | WL(T)0,7                                       |

|                                 |       |      |      |      |      |      |      |      |
|---------------------------------|-------|------|------|------|------|------|------|------|
| Thickness (mm)                  | 30    | 40   | 50   | 60   | 80   | 100  | 120  | 140  |
| Thermal resistance RD: (m².K/W) | 1,05  | 1,40 | 1,75 | 2,10 | 2,75 | 3,45 | 4,15 | 4,80 |
| Boards/pack                     | 14    | 10   | 8    | 7    | 5    | 4    | 3    | 3    |
| m²/pack                         | 10,50 | 7,50 | 6,00 | 5,30 | 3,80 | 3,00 | 4,50 | 2,25 |
| Boards/pallet                   | 168   | 120  | 96   | 84   | 60   | 48   | 42   | 36   |
| m²/pallet                       | 126   | 90   | 72   | 63   | 45   | 36   | 63   | 27   |
| Thermal conductivity (W/(m.K))  | 0,029 |      |      |      |      |      |      |      |

|                                 |       |       |      |
|---------------------------------|-------|-------|------|
| Thickness (mm)                  | 160   | 180   | 200  |
| Thermal resistance RD: (m².K/W) | 5,50  | 5,80  | 6,45 |
| Boards/pack                     | 2     | 2     | 2    |
| m²/pack                         | 1,50  | 1,50  | 1,25 |
| Boards/pallet                   | 32    | 28    | 24   |
| m²/pallet                       | 24    | 21    | 15   |
| Thermal conductivity (W/(m.K))  | 0,029 | 0,031 |      |

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



XPS CW

XPS CW is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO2 technology. XPS CW is mainly used as thermal insulation including pitched roofs and facades.

|   |   |
|---|---|
| Dimensions (mm)                                   | 2500 x 600                                      |
| Finish  | Edge profile: tongue-groove<br>lsurface: smooth |
| Application                                       |   |
| Fire reactivity                                   | E   |
| Compressive strength                              | ≥ 250 kPa                                       |
| Long-term Water absorption by Immersion (EN12087) | WL(T)0,7  |

|                                 |       |      |      |       |      |      |       |      |      |
|---------------------------------|-------|------|------|-------|------|------|-------|------|------|
| Thickness (mm)                  | 30    | 40   | 50   | 60    | 80   | 100  | 120   | 140  | 160  |
| Thermal resistance RD: (m².K/W) | 0,90  | 1,20 | 1,50 | 1,80  | 2,25 | 2,85 | 3,35  | 3,90 | 4,45 |
| Boards/pack                     | 14    | 10   | 8    | 7     | 5    | 4    | 3     |      | 2    |
| m²/pack                         | 21    | 15   | 12   | 10,50 | 7,50 | 6    | 4,50  | 2,25 | 1,5  |
| Boards/pallet                   | 12    |      |      |       |      |      | 14    | 12   | 14   |
| m²/pallet                       | 252   | 180  | 144  | 126   | 90   | 72   | 63    | 27   | 21   |
| Thermal conductivity (W/(m.K))  | 0,033 |      |      | 0,035 |      |      | 0,036 |      |      |

In addition to the default pallet, there is also a “jumbo” pack, composed of 2x1 pallets.



XPS CW ARTIC

XPS CW Artic is a rigid thermal insulation board made of extruded polystyrene (XPS) foam with improved lambda. XPS CW Artic is mainly used as thermal insulation including pitched roofs and facades.

|   |  |
|---|--|
| Dimensions (mm)                                   | 2500 x 600                                     |
| Finish  | Edge profile: tongue-groove<br>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  |
| Thermal resistance RD: (m².K/W) | 1,05  | 1,40 | 1,75 | 2,10  | 2,75 | 3,45 | 4,15 |
| Boards/pack                     | 14    | 10   | 8    | 7     | 5    | 4    | 3    |
| m²/pack                         | 21    | 15   | 12   | 10,50 | 7,50 | 6    | 4,50 |
| Boards/pallet                   | 168   | 120  | 96   | 84    | 60   | 48   | 42   |
| m²/pallet                       | 252   | 180  | 144  | 126   | 90   | 72   | 63   |
| Thermal conductivity (W/(m.K))  | 0,029 |      |      |       |      |      |      |

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



XPS CB

XPS CB is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO2 technology. XPS CB is mainly used as thermal insulation of interior walls. The rough surface of the panel allows interior plastering.

|   |   |
|---|---|
| Dimensions (mm)                                   | 1250 x 600                                    |
| Finish  | Edge profile: straight edge<br>Surface: rough |
| 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  | 160  | 180  |
| Thermal resistance RD: (m².K/W) | 0,90  | 1,20 | 1,50 | 1,80  | 2,25 | 2,85 | 3,35  | 3,90 | 4,45 | 5,00 |
| Boards/pack                     | 14    | 10   | 8    | 7     | 5    | 4    | 3     |      | 2    |      |
| m²/pack                         | 10,50 | 7,50 | 6    | 5,25  | 3,75 | 3    | 2,25  |      | 1,50 |      |
| Boards/pallet                   | 12    |      |      |       |      |      | 14    | 12   | 16   | 14   |
| m²/pallet                       | 126   | 90   | 72   | 63    | 45   | 36   | 31,50 | 27   | 24   | 21   |
| Thermal conductivity (W/(m.K))  | 0,033 |      |      | 0,035 |      |      | 0,036 |      |      |      |



XPS 500

XPS 500 is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO2 technology. 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 | 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 | 3,35  | 3,90 | 4,45 |
| Boards/pack                     | 10    | 8    | 7    | 5     | 4    | 3     |      | 2    |
| m²/pack                         | 7,50  | 6    | 5,25 | 3,75  | 3    | 2,25  |      | 1,50 |
| Boards/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 |      | 0,036 |      |      |

|                                 |       |      |      |      |       |      |      |
|---------------------------------|-------|------|------|------|-------|------|------|
| Thickness (mm)                  | 180   | 200  | 220  | 240  | 260   | 280  | 300  |
| Thermal resistance RD: (m².K/W) | 5,00  | 5,55 | 6,10 | 6,65 | 7,20  | 7,75 | 8,30 |
| Boards/pack                     | 2     |      |      | 1    |       |      |      |
| m²/pack                         | 1,5   |      |      | 0,75 |       |      |      |
| Boards/pallet                   | 14    | 12   |      | 20   | 18    | 16   |      |
| m²/pallet                       | 21    | 18   |      | 15   | 13,50 | 12   |      |
| Thermal conductivity (W/(m.K))  | 0,036 |      |      |      |       |      |      |

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



XPS 700

XPS 700 is a rigid thermal insulation board made of extruded polystyrene (XPS) foam produced according to climate-friendly CO2 technology. 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 | 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 | 3,35  | 3,90 | 4,45 |
| Boards/pack                     | 8     | 7    | 5     | 4    | 3     |      | 2    |
| m²/pack                         | 6,00  | 5,25 | 3,75  | 3    | 2,25  |      | 1,50 |
| Boards/pallet                   | 12    |      |       |      | 14    | 12   | 16   |
| m²/pallet                       | 72    | 63   | 45    | 36   | 31,50 | 27   | 24   |
| Thermal conductivity W/(m.K)    | 0,033 |      | 0,035 |      | 0,036 |      |      |

|                                 |       |      |      |      |       |      |      |
|---------------------------------|-------|------|------|------|-------|------|------|
| Thickness (mm)                  | 180   | 200  | 220  | 240  | 260   | 280  | 300  |
| Thermal resistance RD: (m².K/W) | 5,00  | 5,55 | 6,10 | 6,65 | 7,20  | 7,75 | 8,30 |
| Boards/pack                     | 2     |      |      | 1    |       |      |      |
| m²/pack                         | 1,50  |      |      | 0,75 |       |      |      |
| Boards/pallet                   | 14    | 12   |      | 20   | 18    | 16   |      |
| m²/pallet                       | 21    | 18   |      | 15   | 13,50 | 12   |      |
| Thermal conductivity (W/(m.K))  | 0,036 |      |      |      |       |      |      |

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



XPS 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:  
**[www.soprema.co.uk](http://www.soprema.co.uk)**

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