

# Climate

## External Wall Insulation

Sundolitt Climate External Wall Insulation board provides a low cost high energy saving solution for external walls.

External wall insulation improves energy efficiency by reducing heat loss through the fabric of the building, which in turn saves money on heating. It also improves the appearance of the building and increases its lifespan.

External insulation on existing solid walls is eligible for grant funding across England, Scotland and Wales. Sundolitt Climate with a render finish is the most cost effective and durable external wall insulation system.

| Standard Sizes Available |        |       |           |
|--------------------------|--------|-------|-----------|
|                          | Length | Width | Thickness |
| Dimensions (mm)          | 1200   | 600   | 20 - 300  |

### Sundolitt Climate External Wall Insulation :

-  Low cost solution
-  Fast Installation
-  Safe to install
-  Lifetime durability
-  Energy saving - funding available
-  Excellent environmental credentials
-  Recyclable
-  Suitable for use with all render systems



### Low Cost Solution

Sundolitt Climate External Wall Insulation provides the lowest cost insulated solid wall installation. Expanded polystyrene can save over 60% of the cost of insulation compared to other insulating boards.

With retrofit installations the thickness of Climate EWI used is 90mm to meet energy saving targets. This means you can use standard sized trims and fixings, which are readily available and cost effective.

Expanded polystyrene can be installed using adhesive only Saving the cost of mechanical fixings and time of installation. Mechanical fixings are not required with our insulation boards unless specifically required following a survey of the building.

### Fast Installation

Climate Expanded Polystyrene insulation is the only insulation type suitable for use with bonded only external wall insulation systems. Using adhesive only to fix the insulation boards provides a much faster installation compared to a mechanically fixed system.

EPS is lightweight and easy to transport across the site. The boards are easily cut to size with a fine toothed saw or hot wire cutter.

### Safe to Install

Climate EWI expanded polystyrene insulation boards are non-toxic and non-irritant. There are no requirements for special PPE when handling and cutting the EPS insulation sheets.

Expanded polystyrene is an inert material. There are no substances hazardous to health or environment dispersed from the insulation boards, either during installation or in use.

## CONTACT US

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## Lifetime Durability

Climate EWI expanded polystyrene (EPS) is a durable and stable material. EPS maintains its insulating performance throughout its lifetime in application.

When applying render over an insulation material it is key that the insulation is dimensionally stable. Expansion, contraction or warping of the insulation after installation causes cracking in the render and therefore water ingress.

Climate EWI is a stable material, unaffected by moisture and the effects of freezing and thawing over time. Using EPS ensures the performance of the waterproofing render applied to the building.

Installing external insulation with a protective render onto existing solid walls increases their lifespan. The walls become protected against the damaging effects of the weather.

External weatherproofing can also reduce problems of condensation and moisture ingress where aging walls have become porous.

## Energy Saving – Funding Available

Installing 90mm Climate external wall insulation reduces heat loss and therefore energy used to heat the building. The cost saving on heating energy bills is between £105 and £375/year. More information on installation and benefits can be found on the [Energy Saving Trust](#) website.

Various funding schemes are available to help cover the cost of external wall insulation. There are long-standing schemes such as those from energy suppliers - Energy Company Obligation (ECO) and from September 2020 the Green Homes Grant Scheme will be available to all. More information on these and other schemes available can be found on the Government website - [Simple Energy Advice](#) or [Energy Saving Trust - Financial Support](#).

## Suitable for Use with all Render Systems

Climate External wall Insulation is compatible with all render systems available. It can be used with traditional sand and cement renders or acrylic and silicone based renders. It is also suitable for use with lime based renders.

Our expanded polystyrene insulation can be used with bonded systems, using only adhesive, and with mechanically fixed systems.



## Excellent Environmental Credentials

Expanded polystyrene is not harmful to the environment either in manufacture or use. With an Ozone Depletion Potential of Zero and Global Warming Potential of < 5 the material meets the requirements for environmental design.

It is environmentally a good choice with excellent energy saving per kg of material achieving an A+ rating within the BRE Green Guide.

Sundolitt EWI can also be used on new build properties to meet Passivhaus Standard. With a thickness of 300mm Climate EWI the ultra-low energy rating for this standard can be achieved.

## Recyclable

Made from expanded polystyrene our Climate EWI is 100% recyclable.

Clean waste can be collected and ground up in our factories and used to make new insulation panels for floor insulation and other applications. Contact us for more information.

### Accreditation

Sundolitt Climate EWI is manufactured in accordance with BS EN ISO 13163.



QMS  
ISO 9001  
Registered Company



EMS  
ISO 14001  
Registered Company

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