



Building Solutions

# xenergy

A new generation extruded polystyrene from the inventor of STYROFOAM



Up to  
**11%**  
better insulation performance\*

**XENERGY™ SL:**  
offering a little extra for inverted roof insulation



**0.032 W/mK**

XENERGY SL is a new generation extruded polystyrene (XPS) designed for inverted flat roofs from the inventor of STYROFOAM™ – in new steel grey!

XENERGY SL offers roof designers:

- >>> the durability, reliability and strength of STYROFOAM
- >>> declared thermal conductivity of 0.032 W/mK
- >>> single extruded thicknesses from 100mm to 200mm.

The result:

- >>> improved insulation performance
- >>> enabling reduced energy costs
- >>> supporting construction of more energy efficient buildings.

Interested?

Call: 0203 139 4000

Email: [xenergyuk@dow.com](mailto:xenergyuk@dow.com)

Visit: [www.styrofoam.co.uk](http://www.styrofoam.co.uk)

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# Driving further improvements through innovation

Dow Building Solutions has a long track record of innovation within the construction industry: XENERGY - our new generation XPS - is our latest technical advance and follows recent improvements to thermal conductivity across the entire STYROFOAM-A range.

XENERGY XPS combines the proven features of STYROFOAM XPS - durability, reliability and strength - with improved insulation performance and a Global Warming Potential (GWP) of less than five to help building designers meet increasingly stringent energy efficiency and sustainability demands.

We've achieved this through combining a manufacturing process which uses CO<sub>2</sub> as the blowing agent and adding infra-red blocking particles to scatter and reflect heat radiation. Now, roof designers and contractors in the UK are the first to be offered XENERGY SL designed for inverted roof insulation.

## XENERGY SL: performance highlights

- » Up to 11% improved insulation performance.\*
- » Potential for significant thickness savings.
- » Offered in single extruded thicknesses from 100mm to 200mm.
- » 4mW thermal conductivity gains from 140mm, 160mm, 180mm and 200mm thicknesses.\*\*
- » Excellent freeze/thaw performance.
- » Low water absorption.
- » High compressive strength.
- » ODP of zero and GWP of less than five.

## Inverted roof design: key benefits

Covering a waterproofing layer with effective, durable and moisture resistant insulation such as XENERGY SL helps reduce condensation and protects the waterproofing from:

- » wide temperature variations including repeated freeze/thaw cycles
- » degradation from weathering
- » mechanical damage during construction, use and maintenance.

Inverted roof insulation can be:

- » installed in any weather
- » added without disturbing the waterproof layer
- » more easily lifted and replaced if the building is altered.

Literature and product info: [www.styrofoam.co.uk](http://www.styrofoam.co.uk)

Technical support: [fltech@dow.com](mailto:fltech@dow.com)

Other enquiries: [dbsuk@dow.com](mailto:dbsuk@dow.com)

\* Declared thermal conductivity of XENERGY SL is 0.032 W/mK being an 11.1% improvement compared with ROOFMATE™ SL-A in thicknesses of 140mm, 160mm, 180mm and 200mm (declared thermal conductivity 0.036 W/mK) and a 5.9% improvement compared with ROOFMATE SL-A in 100mm and 120mm thicknesses (declared thermal conductivity 0.034 W/mK).

\*\* Compared with the same thicknesses of ROOFMATE SL-A.

Manufactured and tested in accordance with BS EN 13164.

### Note:

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S06-291-01525-0912