



# SIG Spectraplan

High-quality reinforced TPE roof systems



Spectraplan TPE (Thermoplastic Polyolefin Elastomer) roofing systems use the very latest in advanced polymer technology. Incorporating a range of membranes and accessories, these next generation TPE systems combine the best performance characteristics of thermoplastics (e.g. PVC) and elastomerics (e.g. EPDM). This ensures optimum results both during installation and in performance.

## SPECTRAPLAN PRODUCT RANGE

- **Spectraplan SM** – TPE membrane for mechanically fixed installation
- **Spectraplan SG** – fleece backed membrane for adhered applications
- **Spectraplan D** – membrane for complex detailing
- **Spectraplan Walkway** – TPE membrane with slip resisting surface for use on walkways

A comprehensive range of accessories is also available to complement the Spectraplan membranes

### Spectraplan offers many benefits including:

- Latest polymer technology
- Environmental benefits
- No need for solvent cleaning or preparation
- Compatible with bitumen and expanded polystyrene
- High resistance to ageing and wind uplift
- Non-capillary construction - does not absorb moisture
- Resistance to root penetration
- Excellent welding characteristics
- Elasticity
- Complete range of fixings and accessories.



## High resistance to ageing

Spectraplan TPE roofing sheets do not degrade under UV exposure and the action of ozone does not cause surface erosion. Standing water does not have any detrimental or leaching effects and this ensures a very long life expectancy.

## Reliable and secure seam welding

The Spectraplan TPE polymer has a very broad 'thermal welding range', which minimises its operational sensitivity. This is determined by the excellent flow behaviour of the TPE polymer. The use of identical TPE polymers at the top and bottom side of the roofing sheets, combined with the excellent flow behaviour, produces a homogeneous and reliable weld, which is stronger than the roofing sheet itself.

## Chemical resistance and compatibility

Spectraplan TPE roofing sheets offer exceptionally high chemical resistance to many organic and inorganic substances and solvents. They are also compatible with bitumen and they can be directly applied to existing bituminous coverings and polystyrene (EPS/XPS), without a separation layer being required.

## Elasticity

Due to the long lasting high degree of elasticity of TPE, Spectraplan roofing sheets have high resistance to fatigue and point loading. Movement within the substructure can also largely be accommodated without the need for special detailing.

## Memory-effect

The memory effect associated with elastomers occurs with Spectraplan TPE roofing sheets. As a result of this the installations can benefit from a taut appearance, without this being caused by the exertion of force as tension at the perimeter.

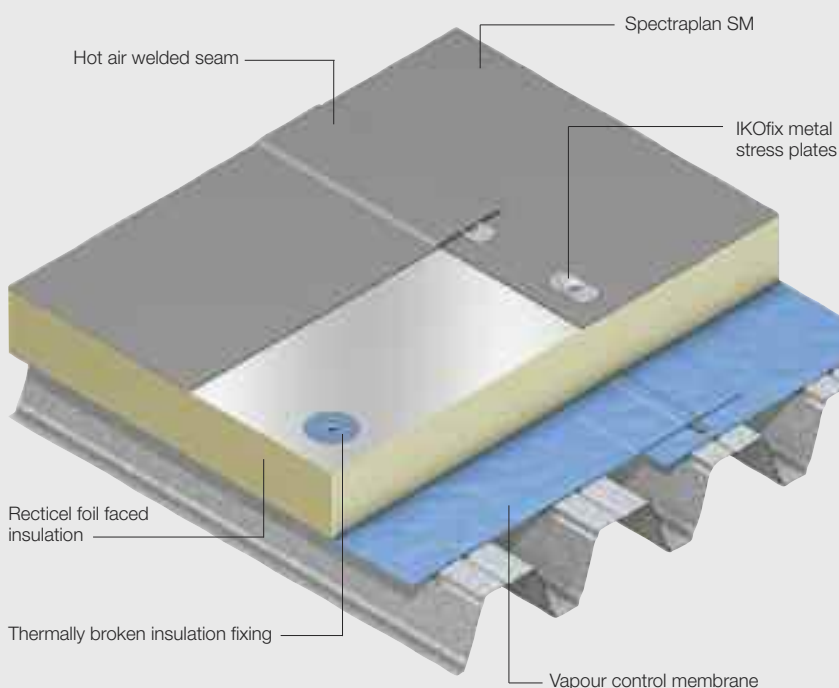
## Environmental friendly and recyclable

Spectraplan membranes are free from plasticisers, (H)CFCs, halogens and heavy metals. They can also be recycled into primary end products at the end of their long lifespan.

## Approval

Spectraplan TPE membranes have been independently certified by the British Board of Agrément (BBA No. 05/4203) to provide a durable roof covering with a service life in excess of 20 years.

### Example of a mechanically fixed installation





### Making the roof work harder

Britain's population is predicted to grow by 10 million to 70 million by 2029. So, we cannot afford to 'waste' roof space. The fifth elevation can become an amenity to:

- Capture carbon
- Generate power
- Provide a green space and living zone
- Insulate the building
- Capture rainwater
- Provide a natural and bio-diverse, wildlife habitat

### About SIG Design & Technology

SIG Design & Technology is a part of SIG Exteriors, a leading division of SIG plc, a FTSE 250 listed company and the UK's market leading specialist supplier to professionals in the building and construction industry.

SIG Design & Technology is at the forefront of design, supply and guaranteeing exclusive 21st century roofing solutions. Every component is carefully tested and selected for its sustainability, functionality, longevity and/or aesthetic strengths to guarantee total roofing solutions from inspiration to installation.



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