



INNOVATION • QUALITY • SERVICE

SunMount™

The modular mounting system for all types of flat roof



The SunMount product is a simple and flexible solution designed especially for commercial and public buildings

Features & Benefits

- No roof penetration – eliminates possible leakage to building interior.
- Light weight – Loading of 11.25kg/m² including PV panel, hence no structural strengthening is required.
- Light ballast – required light ballast around the edges of the array only.
- Easy to install - Since the SunMount is manufactured almost as a complete unit requiring the minimum amount of components and effort to install. This eliminates disruption and time spent on building work (20kW installation per day could be easily carried out by three people).
- Withstand 120 MPh – certified to with stand a wind speed if 120 mile per hour.
- Modular construction - The SunMount was designed as a wedged shape modular mounting unit, which can be interlocked with other units to form an integrated solar array of any shape or size.
- Interlocking Method - ensures the complete solar array is one assembled block.
- Aesthetics – flush modules in the mount give an integrated appearance.
- 10° optimum tilt angle - The tilt angle for the SunMount has been optimised to obtain the best ratio of power generation to surface area exploitation for European climate.
- Pressure Equalisation vents – such vents at the top of the SunMount ensure module stability at high wind, air circulation and module cooling.
- Easy to disassemble – so repairs and roof maintenance can be carried out.
- Recycled material - The SunMount is made out of 4mm thick recycled acrylic ABS (Acrylonitrile Butadiene Styrene), capped (i.e. coating) with 0.3 mm PMMA (Poly Methyl Methacrylate) for UV stability. Hence the life expectancy of the product for outdoor use is over 20 years. The ABS plastic has a value of HB according to the UL standard for flammability.
- Protect the roof from UV and thermal cycling - The total coverage of roof by the SunMount gives immediately two advantages; it protect the roof from the most detrimental element of UV/thermal cycling and it increases the thermal resistance (R-Value) to the building, hence reducing the energy required for heating/cooling of the building during winter and summer respectively.
- PV cable connection - All cabling connections can be carried out from the top and placed in recesses with covering strips. Hence connection/disconnection is easily accessed.



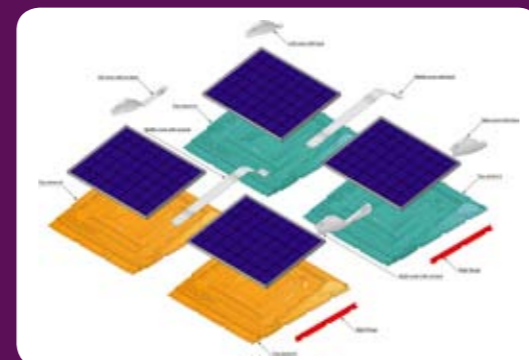
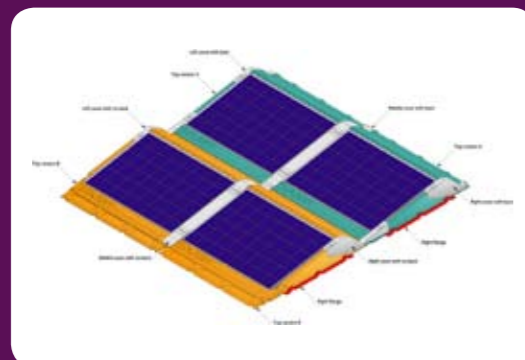
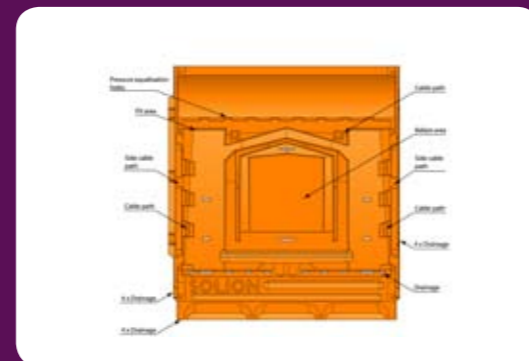
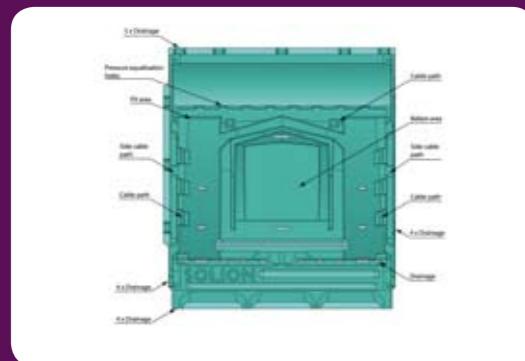
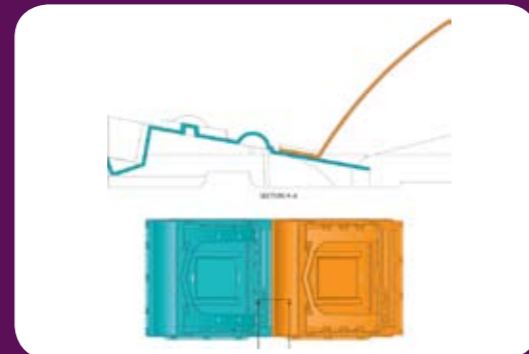
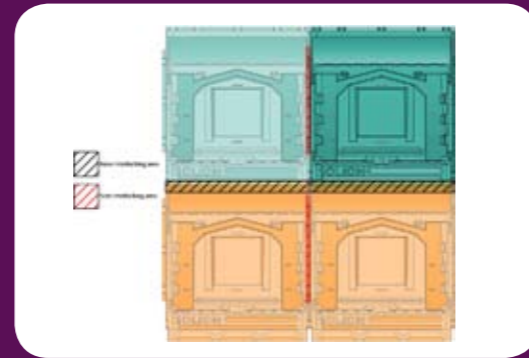
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The SunMount is designed as a complete unit unlike any other existing mounting system in the market will make the PV installation as easy as it can be.

The SunMount is designed to be of a wedged shape or almost like a well streamlined half aerofoil section. This type of shape reduces the separation of wind layers and maximizing pressure recovery along the surface, in order to produce low lift and drag forces.

Further the interlock feature is designed to encounter the main three wind loading effects of drag force, uplift force and overturning moment.



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SOLION

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Solion is a dynamic, rapidly growing design and innovation led company specialising in developing and installing innovative solar products for the built environment.

Solion Ltd was formed in February 2002, as a spin out from the London South Bank University. Solion has the advantage of using the wide range of equipment, facilities and expertise in the University.

As a consequence, the company has the skill set and contacts to generate and access generic technology solutions to new solar product demands.

The company is capable of working from problem to prototype and evaluation followed by full product specification and supply in short order.

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