



Clearline

fusion

roof integrated solar PV



Avonside Renewables



Ample Energy

Clearline
fusion

solar never
looked
so good



Photon Energy



Ecolek Wales

Clearline

fusion

As solar power moves beyond government subsidy to become a home improvement option, its kerb-appeal is becoming more and more important. Now, integrated solar has come of age. With Clearline Fusion, the highest quality and aesthetics now come at a price competitive with rack-mounted above-roof solar.

Why Roof Integration?

Roof integrated solar has always been the obvious choice when refurbishing or building a new roof. Clearline Fusion brings high quality roof integration within reach for retrofit applications. Now more people can benefit from the advantages of going in-roof.

- **Aesthetics**
Roof integrated panels sit lower to the roofline without brackets and racking on show to look like an intended part of the roof.
- **Roof maintenance**
The roof covering can be easily maintained or replaced without the cost of dismantling a solar installation.
- **Differentiation**
Set yourself apart from identikit above roof systems.



Why Clearline Fusion?

- **Economical**
Price is comparable with above-roof systems.
- **Rapid**
Installation times of less than 1 hour per kilowatt-peak are easily attainable. Our patented connection method means that panels are simply pushed together to create a weather-tight and secure fixing.
- **Compact**
Industry-leading panel spacing. The gap between rows is only 5mm. Columns are spaced by 30mm.
- **Sleek**
Invisible clamps give an uncluttered aesthetic. Panel spacing is automatically set to give consistently accurate shut-lines.
- **Simple**
Fusion achieves exceptional fire performance, wind resistance and weather tightness without extra roof battens, adhesive flashing rolls or fire proofing materials. Everything you need is right there in the kit.
- **Robust**
Certified wind resistance is more than four times higher than competitor products.
- **Universal**
Works with all commonly used tiles and slates including fixings for sarking.



Specification

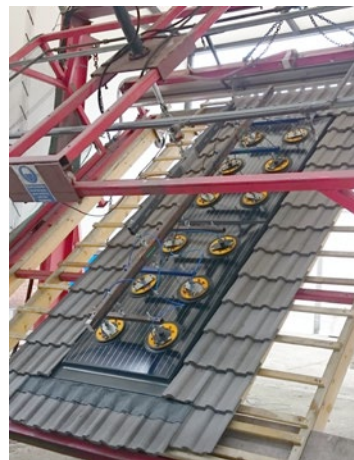
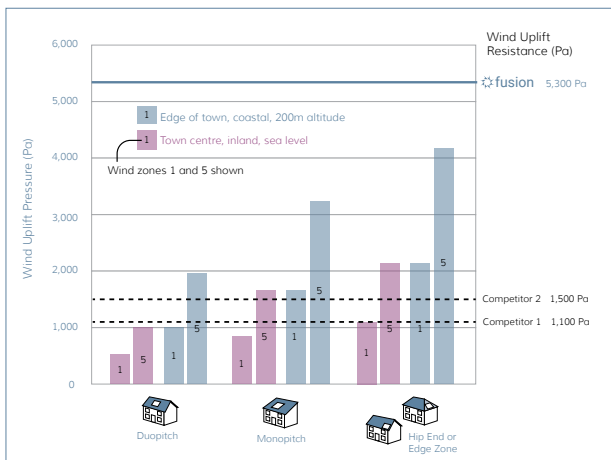
Thickness	mm	69
Static roof loading (distributed)	kg / m ²	12.9
Characteristic Wind Resistance	kPa	5.32
Ultimate Design Load ¹	kPa	5.32
Fire Rating to BS 476-3		AA
Standards		MCS012
Roof pitch		20 - 60°
Compatible roof coverings	Plain tile, Interlocking tile, Natural and artificial slate	

¹ Design resistance to ultimate loads includes a partial material safety factor of 1.0



Solar Energy Solutions Norfolk

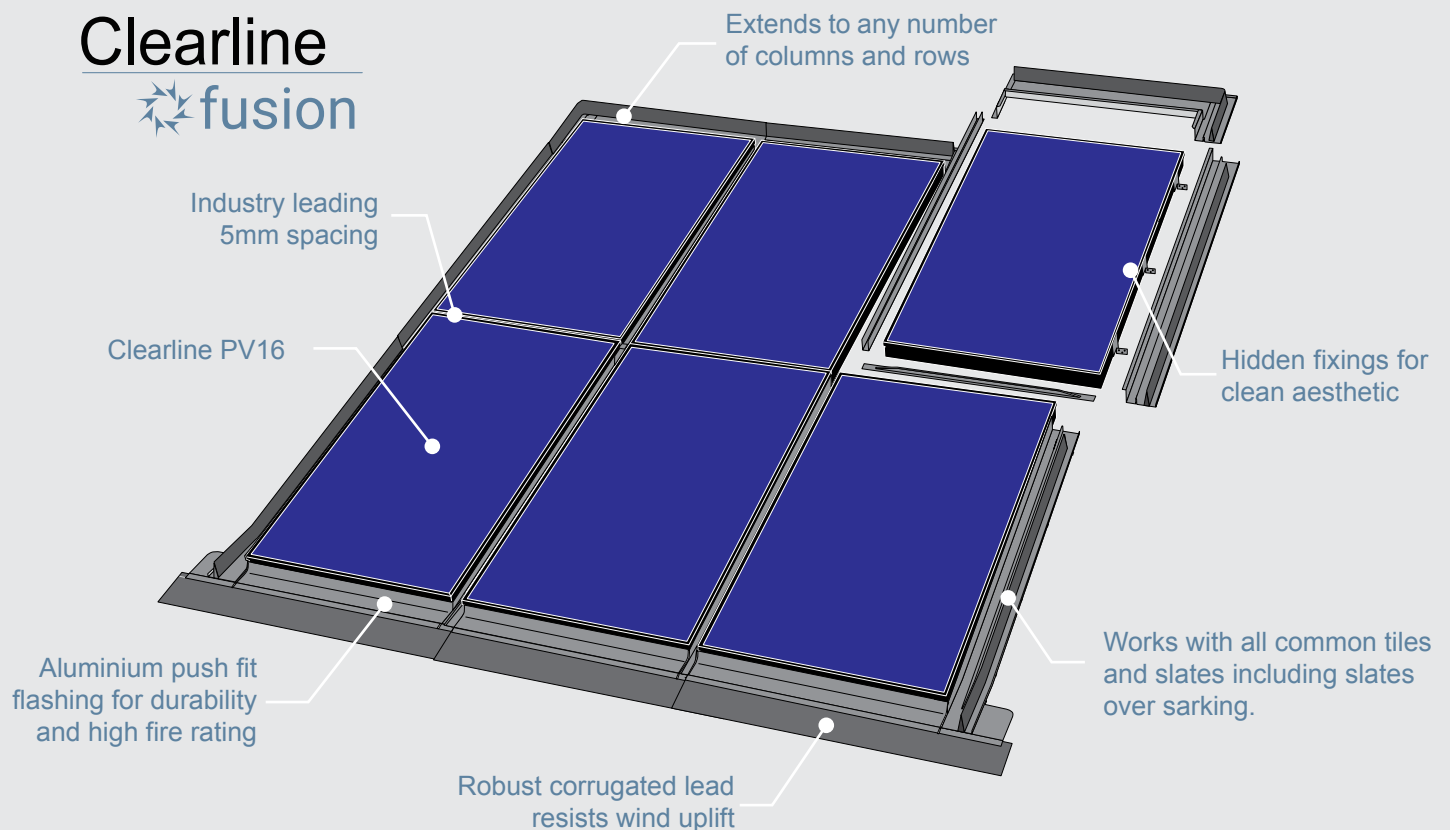
Wind Loads



Wind uplift pressures are higher when solar is roof integrated and the wind resistance of some integration products is not high enough even for low-rise scenarios (see chart).

The certified wind resistance for Clearline Fusion is more than four times higher than competitor products and ready for even the most exposed locations.

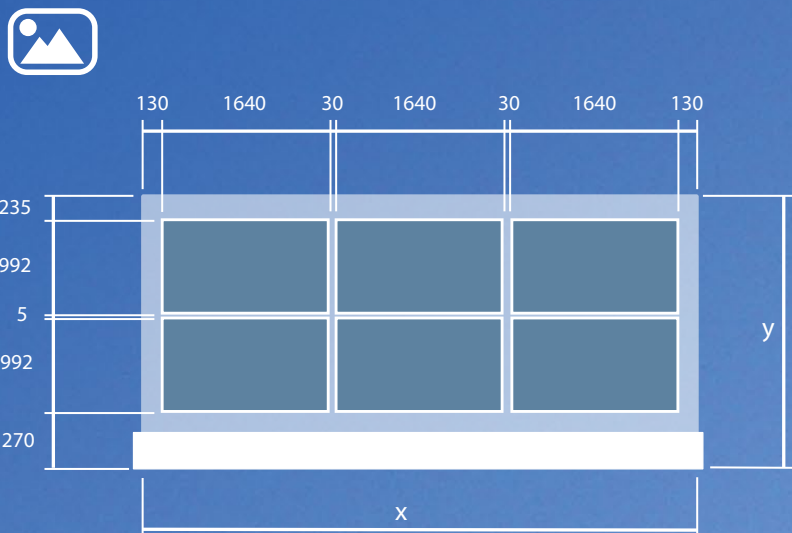
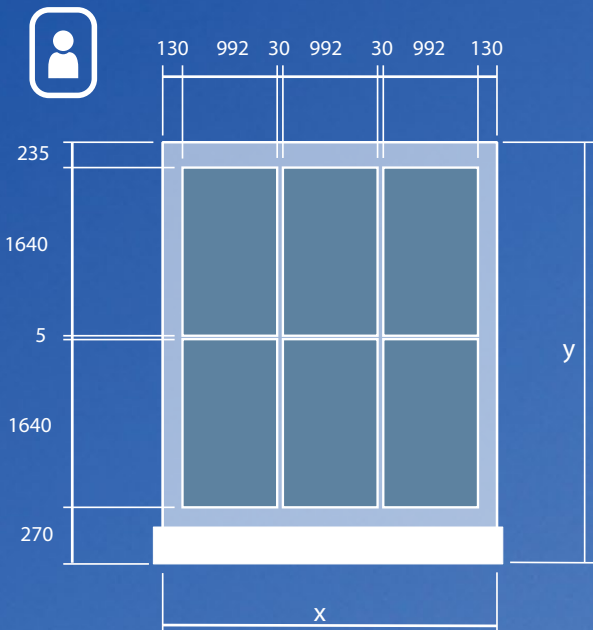
Clearline fusion





solar never looked so good

Dimensions



$n \times m$

$x = 260 + (m \times 992) + ([m-1] \times 30)$
 $y = 505 + (n \times 1640) + ([n-1] \times 5)$

$n \times m$

$x = 260 + (m \times 1640) + ([m-1] \times 30)$
 $y = 505 + (n \times 992) + ([n-1] \times 5)$

available from

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