



# Clearline

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# fusion

roof integrated solar PV



Igloo Environmental



Premium Energy Systems



Energywise Wales

Clearline  
fusion

solar never  
looked  
so good

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.



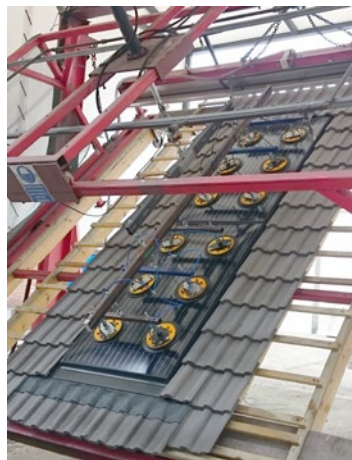
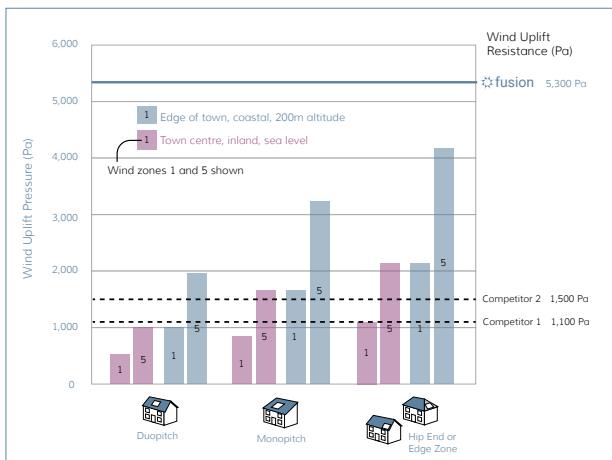
## Specification

Thickness	mm	69
Static roof loading (distributed)	kg / m <sup>2</sup>	12.9
Characteristic Wind Resistance	kPa	5.32
Ultimate Design Load <sup>1</sup>	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	

<sup>1</sup> Design resistance to ultimate loads includes a partial material safety factor of 1.0



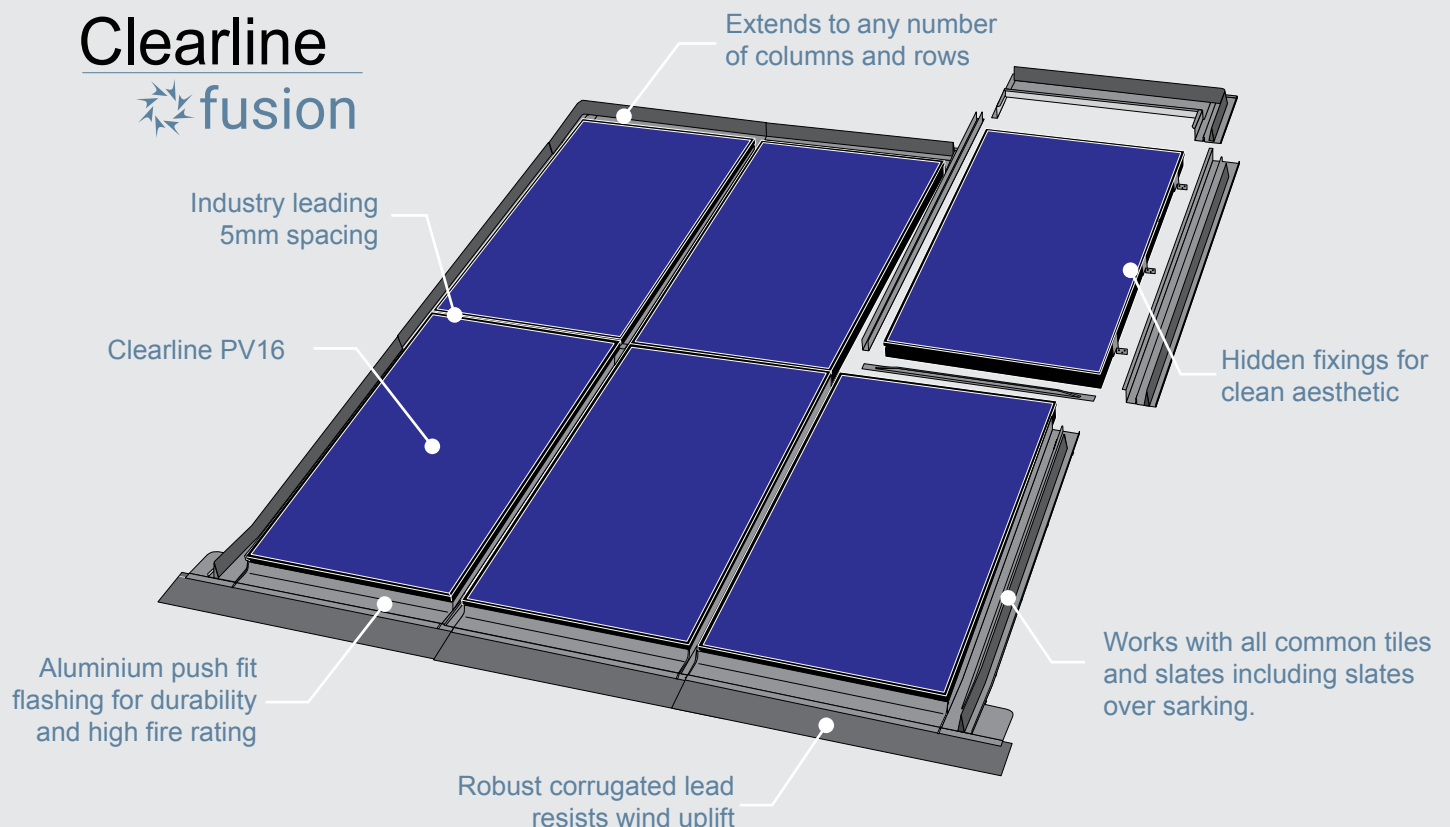
## Wind Loads



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



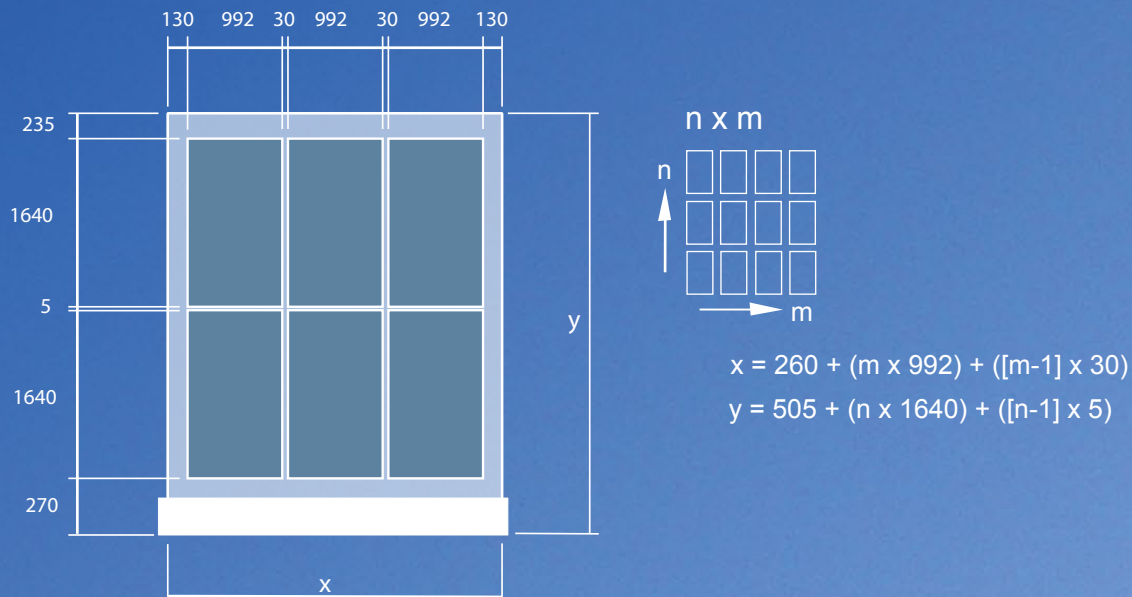


# solar never looked so good



Viridian Solar also manufactures a range of matching, roof integrated solar heating and solar photovoltaic panels for side by side installation.

## Dimensions



available from

Viridian Solar  
Atlas Building, 68 Stirling Way  
Papworth,  
Cambridge UK CB23 3GY

Tel 01480 831 501  
[enquiries@viridiansolar.co.uk](mailto:enquiries@viridiansolar.co.uk)