



Clearline
 fusion

roof integrated solar PV



Hill Group Zero Bills Homes



Duncombe Square, York



Keepmoat



Clearline
fusion

solar never
looked
so good



Clearline

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The Clearline fusion solar roofing system brings high-quality roof integrated solar PV installations within reach of both new build and retrofit applications. Now there's no need to compromise between reducing your energy bills and having a desirable home.

Why Roof Integration?

Roof-integrated solar has become established as the preferred option for new-build roofs and roofing replacement due to its premium finish, simplified installation sequencing and long-term benefits.

- **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. Problems associated with bird infestation are avoided.



Available in a range of panel power output and styles



Why Clearline fusion?

- **Economical**

Total installed cost is competitive with above-roof systems when installing a new roof.

- **Rapid**

Installation times of less than 15 minutes 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.



- **Sleek**

Invisible clamps give an uncluttered aesthetic. Panel spacing is compact and automatically set to give consistently accurate shut-lines.

- **Simple**

Clearline 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.

- **Fire Safe**

The system has a closed top surface to avoid any build up of debris behind the panels and does not use combustible plastic roof coverings behind the panels. Compatible with ArcBox.

- **Robust and Durable**

Certified wind resistance is more than two times higher than competitor products. All-metal components for long life.

- **Universal**

Works with all commonly used tiles and slates, including slate over sarking.

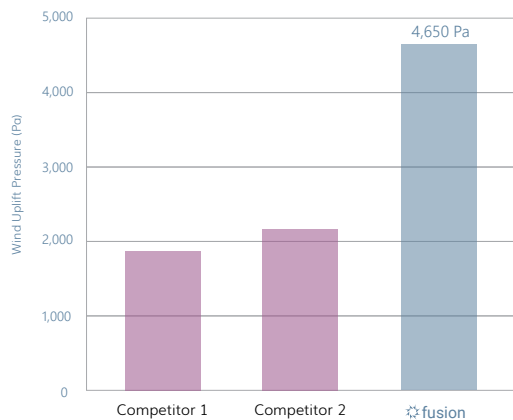
Specification

Thickness	mm	70
Static roof loading (distributed)	kg / m ²	14.5
Characteristic Wind Resistance	kPa	4.65
Ultimate Design Load ¹	kPa	4.65
Fire Rating to BS 476-3	B _{roof} (T1,T2,T4)	
Standards	MCS005, 012	
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



Building Regulations



The certified wind resistance for Clearline fusion is more than two times higher than competitor products and requires no additional roof timber to achieve this.

Clearline fusion is tested as a complete system and unambiguously classified to have the highest resistance to spread of flame and fire penetration in European fire safety tests, achieving B_{Roof} T1, T2, and T4.



Clearline fusion

Extends to any number of columns and rows

Industry leading 5mm spacing

Closed top surface keeps out birds and debris

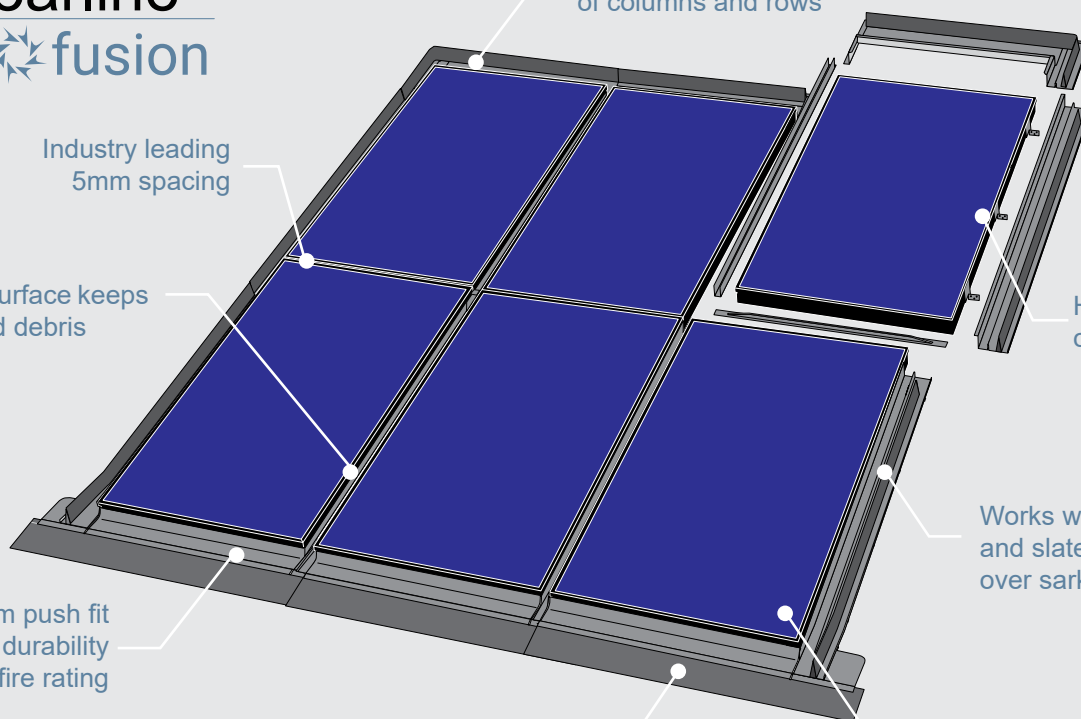
Hidden fixings for clean aesthetic

Aluminium push fit flashing for durability and high fire rating

Works with all common tiles and slates including slates over sarking.

Robust corrugated lead resists wind uplift

Kits for landscape and portrait orientation, and non-rectangular arrays



solar never looked so good



Viridian Solar

Viridian Solar is a manufacturer of roof integrated solar photovoltaic roofing systems. Based in Cambridge, UK the company has a track record of innovation spanning more than a decade.

Since it was founded by engineers from the university, Viridian Solar has established a strong reputation around the world for the durability, aesthetics and quality of its products.

available from

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