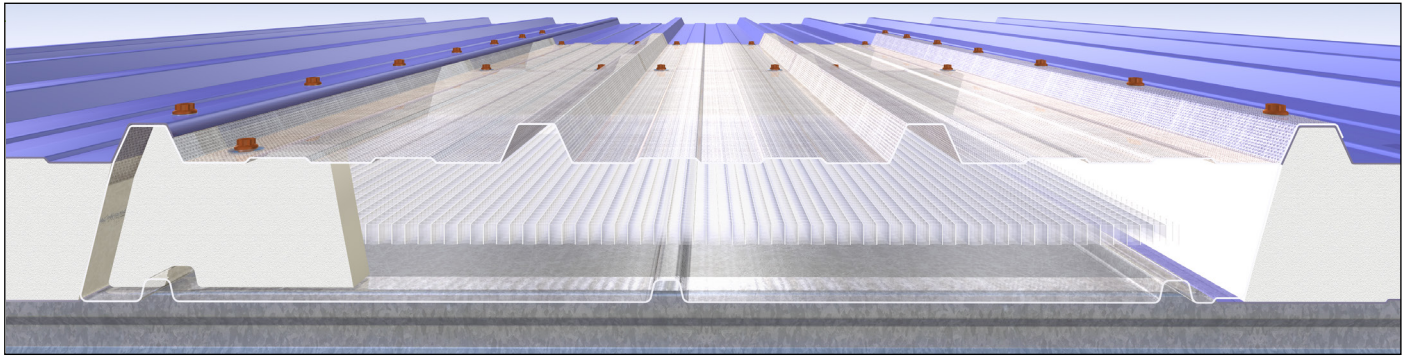
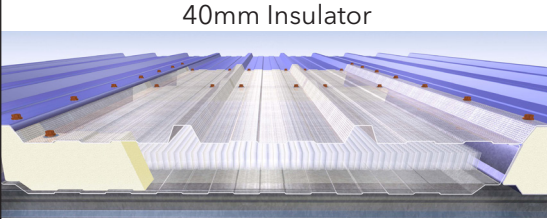






ZENON IN-PLANE COMPOSITE PANEL ROOFLIGHTS



Application	A range of made-to-order rooflight panels in a variety of profiles, different specifications and weights to suit all commonly available composite cladding systems	
Benefits	<ul style="list-style-type: none"> • Diffused light transmission to reduce glare and improve daylight distribution • May include insulation layer options for improved thermal performance • Features the unique ZSL50 thermal side strips for better continuity of the roof insulation and improving the air tightness of the assembly • Manufactured with Zenon Shield - a highly durable UV protective surface film 	
Non-Fragility	Non-fragile Class B when tested in accordance with Advisory Committee for Roofsafety current edition of ACR[M] 001 subject to being installed in accordance with manufacturer's recommendations. Expected period of non-fragility subject to product specification and all other elements of the roof assembly retaining their integrity for the same period.	
Installation Components	Primary Fixings - Should always be a minimum of 5 fixings per purlin. Depending upon end lap length these fixings should have a minimum 29mm diameter self-sealing washer - positioned as evenly as possible.	
	Side Stitch Fastener - Used when fixing the rooflight sidelaps over the metal profile. These fixings should have a minimum of a 16mm diameter self-sealing washer and be placed at a maximum of 400mm centres	
	Steel Fixing Strip - An optional galvanised steel strip is fitted into the rooflight during fabrication enabling the installer to use standard sidelap stitchers	
	Sidelap Sealant - It is essential and must be installed on the crown of the underlapping panel. The sealant should be a continuous butyl sidelap tape	
	End Lap Sealant - Should be 6x5mm, 6mm \varnothing or 8mm \varnothing bead butyl type strip sealant. Two strips should be positioned approximately 10 to 15mm either side of the fixing, a further optional strip may be positioned 15mm from the outer end lap	
	Spreader Plate - The spreader plate is recommended to ensure that the composite panels and rooflights have a secure bearing. The composite rooflight must bear onto the purlin or spreader plate by no less than 25mm at the overlapping end and 40mm at the underlapping end.	
Specification Options	Rooflight Options	
	Zenon Pro	Manufactured using the conventionally reinforced Zenon Pro rooflight material
	Zenon Evolution	Manufactured using the high strength, low carbon Zenon Evolution material
	Insulation Options	
	No insulation	Double skin rooflight with no insulation
	Insulation	Available as an intermediate layer of film, structured polycarbonate or the patented Zenon Insulator to deliver a wide range of performance parameters to suit specific project requirements.
	Other	
	Zenon Shield	All assembly types incorporates purpose designed UV surface protective film
<i>Typical performance data for each assembly configuration options overleaf</i>		

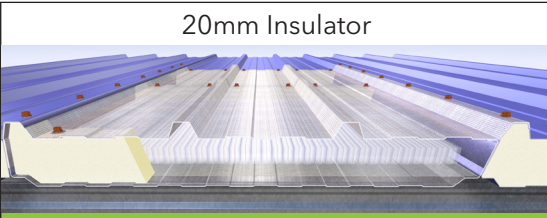
40mm Insulator



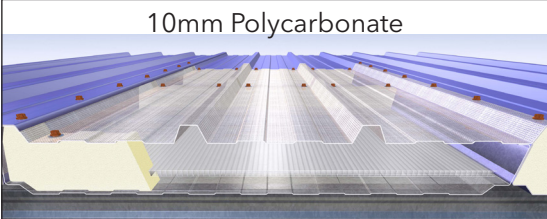
Zenon Pro			
61	1.1	61	35.5
Zenon Evolution			
50	1.1	50	34

20mm Insulator



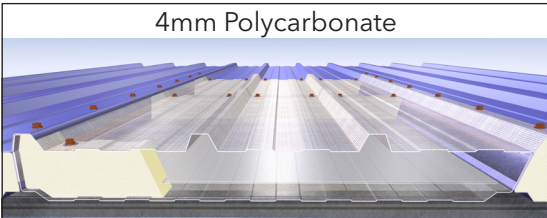
Zenon Pro			
61	1.2	61	35
Zenon Evolution			
50	1.2	50	33.5

10mm Polycarbonate



Zenon Pro			
44	1.2	45	44.5
Zenon Evolution			
36	1.2	38	43

4mm Polycarbonate



Zenon Pro			
54	1.5	54	40.5
Zenon Evolution			
44	1.5	44	38.5

Values are for a typical assembly, for more information contact sales@hambleside-danelaw.co.uk.



Light Transmission



Solar Gain



Thermal Performance



Embodied Carbon

Dimensional Tolerances

The dimensions of the sheets supplied shall be within the following tolerances on the nominal tolerances as declared:

Length: Sheets up to 5m long, -0 to +10mm
 Sheets over 5m long, -0 to +15mm

Width: ±5mm

Squareness: The deviation shall be not more than 0.5mm in every 100mm of width within the sheet tolerance.

Biological Resistance

Resistant to attack by micro organisms, fungi, larvae, insects and mildew. Wash with mild detergents to remove any deposits.

Chemical Resistance

Exposure to certain acids, alkalis and solutions of water soluble gases may be detrimental to the durability and integrity of the rooflight sheets. For further information, please contact our Sales Office.

Materials Compatibility

No chemical reaction with any other established construction materials.

Service Life Guarantee

Hambleside Danelaw guarantee that the Zenon Composite Panels have a service life of up to 25 to 30 years, subject to specification and being handled, store, fitted and maintained in accordance with their recommendations. For further details, contact our Sales Office.

GRP sheets are extremely durable and their strength will be retained in the long term. However, the period of non-fragility of these sheets may vary depending on the possible effect of external factors, unless fully documented maintenance procedures are sufficiently comprehensive to ensure prevention of any factors which could render the sheet assembly fragile. Most typical maintenance regimes are not usually sufficient to achieve this; in the interests of safety it is prudent when accessing roofs incorporating these sheets to take full safety precautions.

Never walk on profiled GRP roof sheets or rooflights, irrespective of their non-fragility classification. Even GRP sheets that are designed to be non-fragile for the life of the roof could be damaged by foot traffic, and this may affect the non-fragility performance.

All the information contained in this datasheet is provided in good faith and without guarantee and warranty. Hambleside Danelaw reserves the right to change the specification of its products at any time. No liability can be accepted for any losses, claims or demands that may arise as a result of the information provided in this datasheet. This statement does not affect statutory rights.

Hambleside Danelaw Ltd has a continuing product development programme. In accordance with our policy for continuous improvement we reserve the right, should the need arise, to amend product specifications without prior notice.