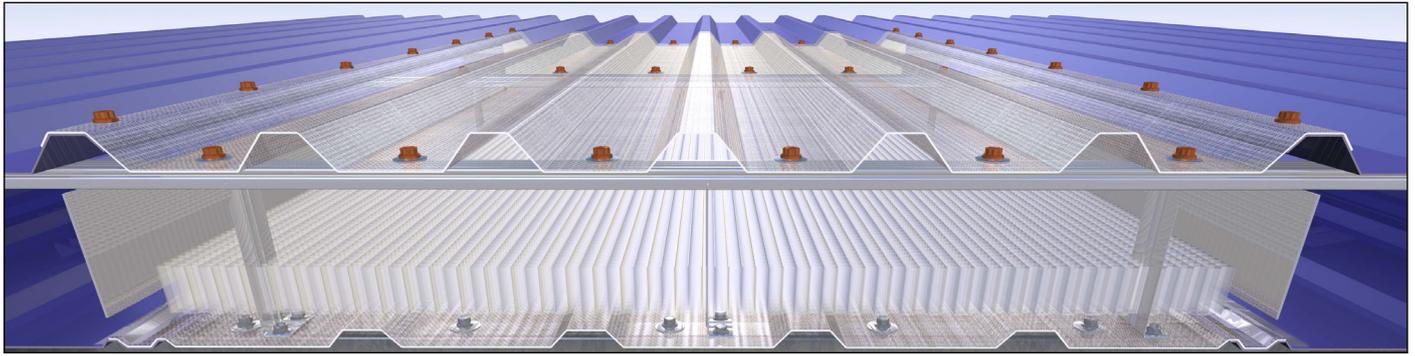
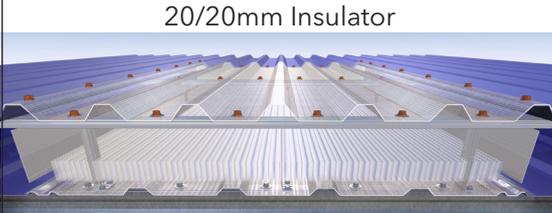


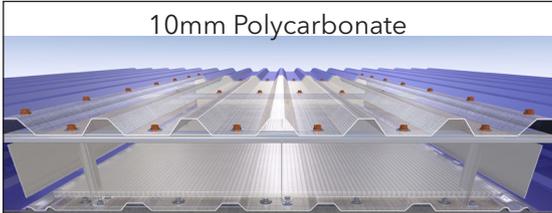
## ZENON IN-PLANE SITE ASSEMBLED ROOFLIGHTS

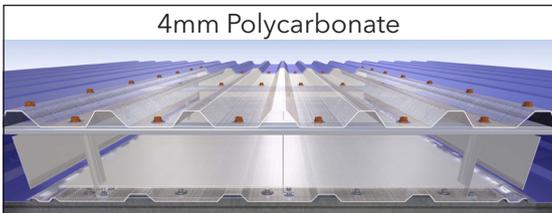


<b>Application</b>	<ul style="list-style-type: none"> <li>• Manufactured to match all commonly available metal cladding profiles for both new build and refurbishment</li> <li>• Can combine Zenon Pro and Zenon Evolution weather sheet and liner panel configuration to suit the building requirements</li> <li>• The various sheet weights can be mixed and matched to meet the best performance criteria</li> </ul>										
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Diffused light transmission to reduce glare and improve daylight distribution</li> <li>• May include insulation layer options for improved thermal performance</li> <li>• Manufactured with Zenon Shield - a highly durable UV protective surface film</li> </ul>										
<b>Non-Fragility</b>	Non-fragile Class B when tested in accordance with the current edition of Advisory Committee for Roofsafety 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.										
<b>Installation Components</b>	<p><b>Primary Fixings</b> - To secure the rooflight outer sheet in position. Should always be a minimum of 5 fixings per purlin. These fixings should have a minimum 29mm diameter self-sealing washer - positioned as evenly as possible.</p> <p><b>Side Stitch Fastener</b> - 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</p> <p><b>Expanding Grommet Fastener</b> - To fasten the side lap of the metal over the rooflight when the metal cladding is fitted over GRP or GRP to GRP.</p> <p><b>Sidelap Sealant</b> - It is essential and must be installed on the crown of the underlapping panel. The sealant should be a continuous 6x5mm butyl sidelap tape</p> <p><b>Sealing Strip (Liner Panel)</b> - A 50 x 1 mm butyl sidelap tape should be positioned halfway onto the rooflight and half onto the metal liner panel</p> <p><b>End Lap Sealant</b> - Should be 6x5mm, 6mmø or 8mmø 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</p>										
<b>Specification Options</b>	<p><b>Rooflight Options</b></p> <table border="1"> <tr> <td>Zenon Pro</td> <td>Manufactured using the conventionally reinforced Zenon Pro rooflight material</td> </tr> <tr> <td>Zenon Evolution</td> <td>Manufactured using the high strength, low carbon Zenon Evolution material</td> </tr> </table> <p><b>Insulation Options</b></p> <table border="1"> <tr> <td>No insulation</td> <td>Double skin rooflight with no insulation</td> </tr> <tr> <td>Insulation</td> <td>Available as an intermediate layer of structured polycarbonate or Zenon Insulator to deliver a wide range of performance parameters to suit specific project requirements.</td> </tr> </table> <p><b>Other</b></p> <table border="1"> <tr> <td>Zenon Shield</td> <td>All assembly types incorporate purpose designed UV surface protective film</td> </tr> </table>	Zenon Pro	Manufactured using the conventionally reinforced Zenon Pro rooflight material	Zenon Evolution	Manufactured using the high strength, low carbon Zenon Evolution material	No insulation	Double skin rooflight with no insulation	Insulation	Available as an intermediate layer of structured polycarbonate or Zenon Insulator to deliver a wide range of performance parameters to suit specific project requirements.	Zenon Shield	All assembly types incorporate purpose designed UV surface protective film
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<i>Typical performance data for each assembly configuration options overleaf</i>											

20/20mm Insulator			
			
			
<b>Zenon Pro</b>			
49	0.99	50	38.5
<b>Zenon Evolution</b>			
41	0.99	41	33.4

20mm Insulator			
			
<b>Zenon Pro</b>			
56	1.3	57	37.5
<b>Zenon Evolution</b>			
46	1.3	47	32.4

10mm Polycarbonate			
			
<b>Zenon Pro</b>			
43	1.3	45	46.3
<b>Zenon Evolution</b>			
36	1.3	37	41.2

4mm Polycarbonate			
			
<b>Zenon Pro</b>			
53	1.7	54	42.1
<b>Zenon Evolution</b>			
44	1.7	44	37

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

	Light Transmission (%)		Solar Gain (%)
	Thermal Performance (W/m <sup>2</sup> K)		Embodied Carbon (kgCO <sub>2</sub> e/m <sup>2</sup> )

#### 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 Zenon site assembled panel rooflights will have a service life of 25 or 30 years subject to specification, and being handled, stored, installed, and maintained in accordance with manufacturer's recommendations. For further details, contact the Sales Office.

GRP rooflights are extremely durable and their strength will be retained in the long term. However, their period of non-fragility may vary depending on external factors. Rooflights should be cleaned and inspected on a regular basis to preserve light transmission and ensure that there is no significant damage to the rooflight sheet itself, and that all fasteners remain tight and in good condition. Non-fragility can only be maintained if inspection and maintenance are sufficiently frequent and comprehensive to ensure there is no deterioration to any aspect of the original installation. 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.