HITECH
ROOFLIGHTS

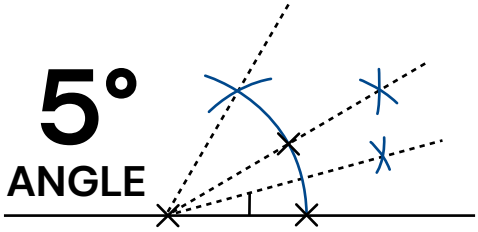
Rooflight Fitting
INSTRUCTIONS

A Simple Guide

Here at Hitech we have created this simple step by step fitting guide for your convenience:

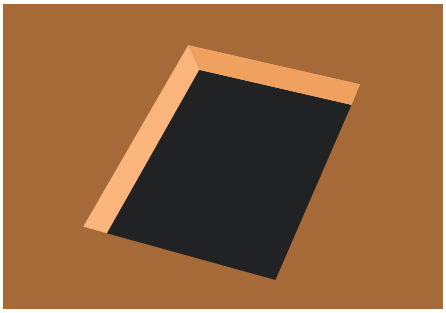
INSTRUCTIONS

Confirm which size rooflight best suits your needs. It is recommended that you purchase the rooflight before you start work on your roof. At Hitech there are 24 sizes available.

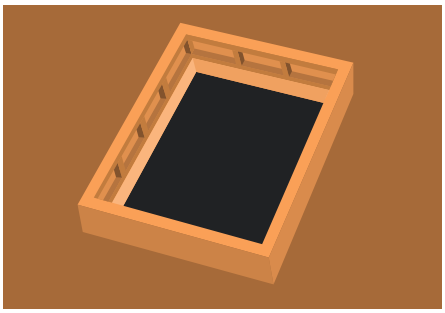


If your existing roof has 3° pitch then a further 2°'s are needed

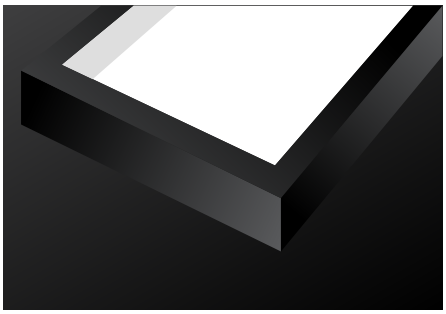
The rooflight must incorporate a minimum 5° pitch. If your existing roof lacks this pitch, you will need to install the kerb/upstand to ensure this minimum 5° pitch achieved. This angle is crucial for effective water drainage, preventing water accumulation on the glass surface.



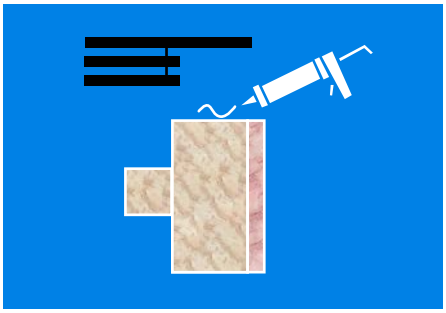
Preparation of the Roof Opening: Begin by measuring and accurately marking the precise location for the rooflight installation. Make certain that the opening dimensions match the specifications of the roof light you've acquired. For example, if you've purchased a 1000×2000 rooflight, the hole you cut in your roof should match these dimensions exactly. Additionally, it is essential to thoroughly clear any debris from the area to ensure a clean and smooth surface.



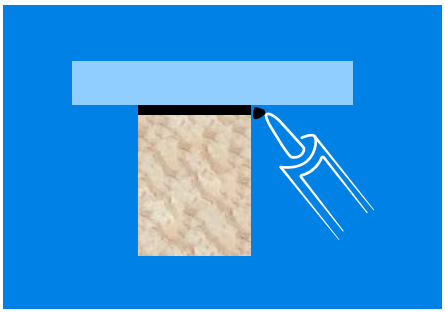
After creating the opening, start to construct or install the timber kerb. Ideally at the lowest point the recommended upstand height should be 150mm above the level of your roof covering, as per guidelines outlined in the BS 6229:1982 code of practice for flat roofs. Additionally, ensure a minimum pitch of 5° or a 100mm incline for every 1000mm of roof length for optimal performance. **(See chart on page 5)**



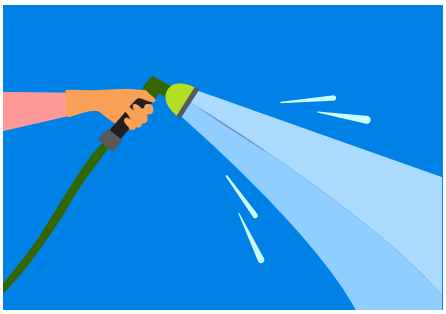
Apply Roof Covering: When applying your chosen roof covering, whether it's GRP, EPDM, or any other material, it's imperative that the covering extends up and over the kerb. Ensure that this surface is as flat and of lumps as possible. This meticulous approach is crucial for establishing a water tight seal once the rooflight is installed.



Installing the Glass Pane: Begin by applying a generous silicone seal along all four surfaces of the kerb. Don't be overly concerned about the appearance of the seal: the key is to create a robust, watertight connection between the glass and the kerb. Next, apply a second seal to the rebated part of the kerb, focusing on the inner panes. Ensure the glass is correctly aligned and evenly seated within the kerb.



Seal the Edges: To further enhance weather proofing, apply a compatible silicone sealant around the perimeter of the glass pane where it meets the kerb/upstand and smooth off. It's crucial to select a sealant that matches the materials used in both the rooflight and the roof surface.



Testing for Leaks: After the rooflight has been installed and sealed, it's vital to conduct a thorough leak test. Simulate rain fall by using a hose or water source and meticulously examine the interior for any indication of water infiltration. If you detect any leaks, take immediate action by resealing or adjusting the installation as needed.



Adhere to Maintenance Guidelines:
Consistent cleaning and routine inspections are essential for preventing debris accumulation and identifying any necessary maintenance requirements.

It's worth noting that installation process can vary based on the specific kerb or upstand utilized. Therefore, it's imperative to thoroughly review and adhere to the provided installation manual for a secure and successful installation. If you have any uncertainties about a particular step or lack the requisite skills, we strongly recommended consulting a professional installer or a contractor with expertise in rooflight installations.

You'll need to install a timber internal frame to support the weight of the inner two glass panes. Refer to the images on the next page for guidance.

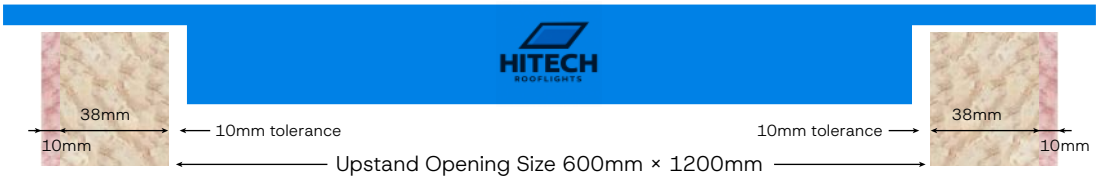
Technical Drawings

for 600mm × 1200mm Rooflight

A Quoted rooflight size 600mm × 1200mm



B Opening size 600mm × 1200mm



C Inner Frame Details



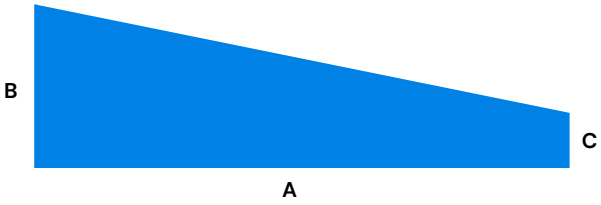
To create the

Correct Pitch:

Upstand	Highest Point	Lowest Point
A	B	C
600	210mm	150mm
800	230mm	150mm
900	240mm	150mm
1000	250mm	150mm
1200	270mm	150mm
1500	300mm	150mm
1800	330mm	150mm
2000	350mm	150mm

THIS GUIDE WILL GIVE YOU A 5.71° PITCH

The recommended upstand height should be 150mm above the level of your roof covering, as per the guidelines outlines in the BS6229:1982 code of practice for flat roofs. The table assumes you are following these guidelines and gives you 150mm at the lowest point.



HITECH Rooflight

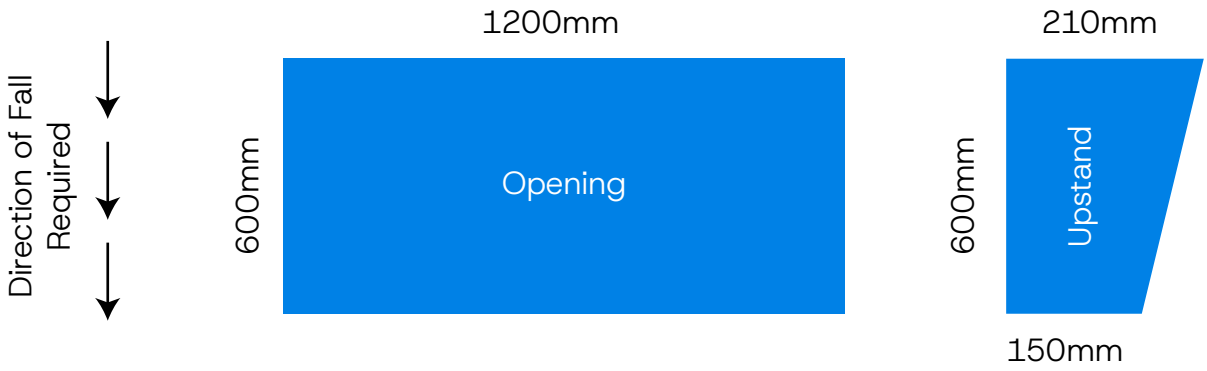
Standard Sizes and Weights

Opening Size	Inner Pane Glass Size	External Glass Size	Rooflight Weight Without Blind
300 × 300mm	280 × 280mm	480 × 480mm	4kg
400 x 400mm	380 x 380mm	580 x 580mm	8kg
500 x 500mm	480 x 480mm	680 x 680mm	12kg
600 x 600mm	580 x 580mm	780 x 780mm	18kg
600 x 900mm	580 x 880mm	780 x 1080mm	26kg
800 x 800mm	780 x 780mm	980 x 980mm	31kg
900 x 900mm	880 x 880mm	1080 x 1080mm	40kg
600 x 1200mm	580 x 1180mm	780 x 1380mm	35kg
600 x 1500mm	580 x 1480mm	780 x 1680mm	44kg
600 x 1800mm	580 x 1780mm	780 x 1980mm	53kg
800 x 1000mm	780 x 980mm	980 x 1180mm	39kg
800 x 1200mm	780 x 1180mm	980 x 1380mm	47kg
800 x 1500mm	780 x 1480mm	980 x 1680mm	59kg
1000 x 1000mm	980 x 980mm	1180 x 1180mm	49kg
1000 x 1200mm	980 x 1180mm	1180 x 1380mm	59kg
1000 x 1500mm	980 x 1480mm	1180 x 1680mm	74kg
1000 x 2000mm	980 x 1980mm	1180 x 2180mm	98kg
1200 x 1200mm	1180 x 1180mm	1380 x 1380mm	71kg
1200 x 1800mm	1180 x 1780mm	1380 x 1980mm	106kg
1200 x 2000mm	1180 x 1980mm	1380 x 2180mm	118kg
1500 x 1500mm	1480 x 1480mm	1680 x 1680mm	110kg
1000 x 2500mm	980 x 2480mm	1180 x 2680mm	123kg
1000 x 3000mm	980 x 2980mm	1180 x 3180mm	147kg
1800 x 1800mm	1780 x 1780mm	1980 x 1980mm	159kg

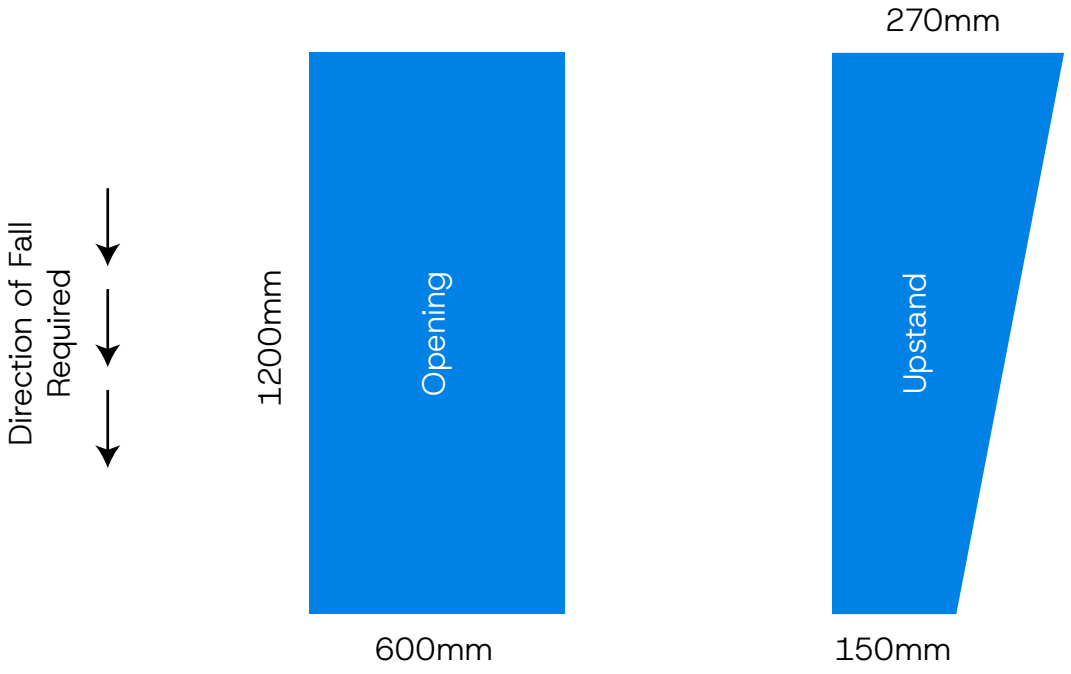
The inner pane of glass is 20mm smaller than the stated opening size to allow for fitting tolerance.

Examples of how you fit a rooflight and how the falls work:

If you fit the rooflight this way then here are the details:



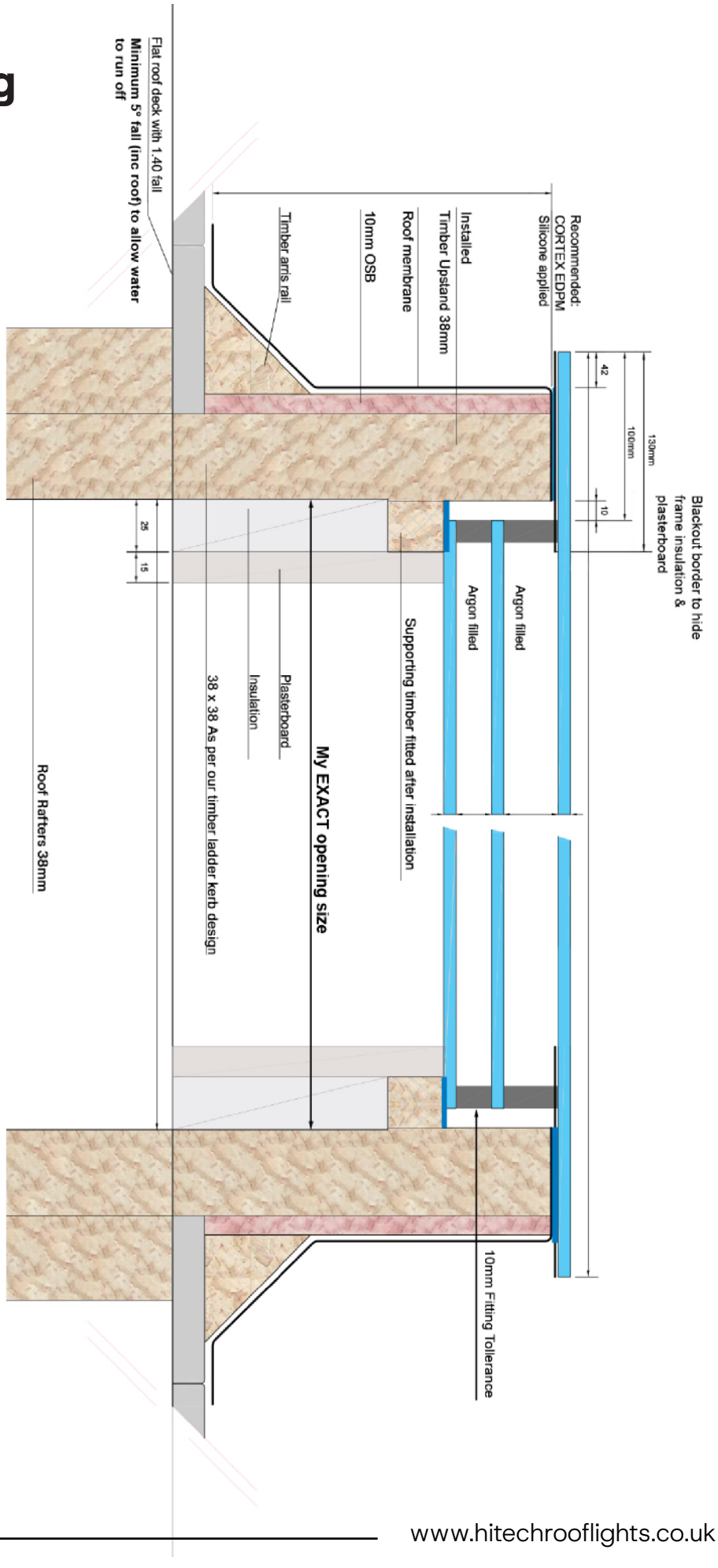
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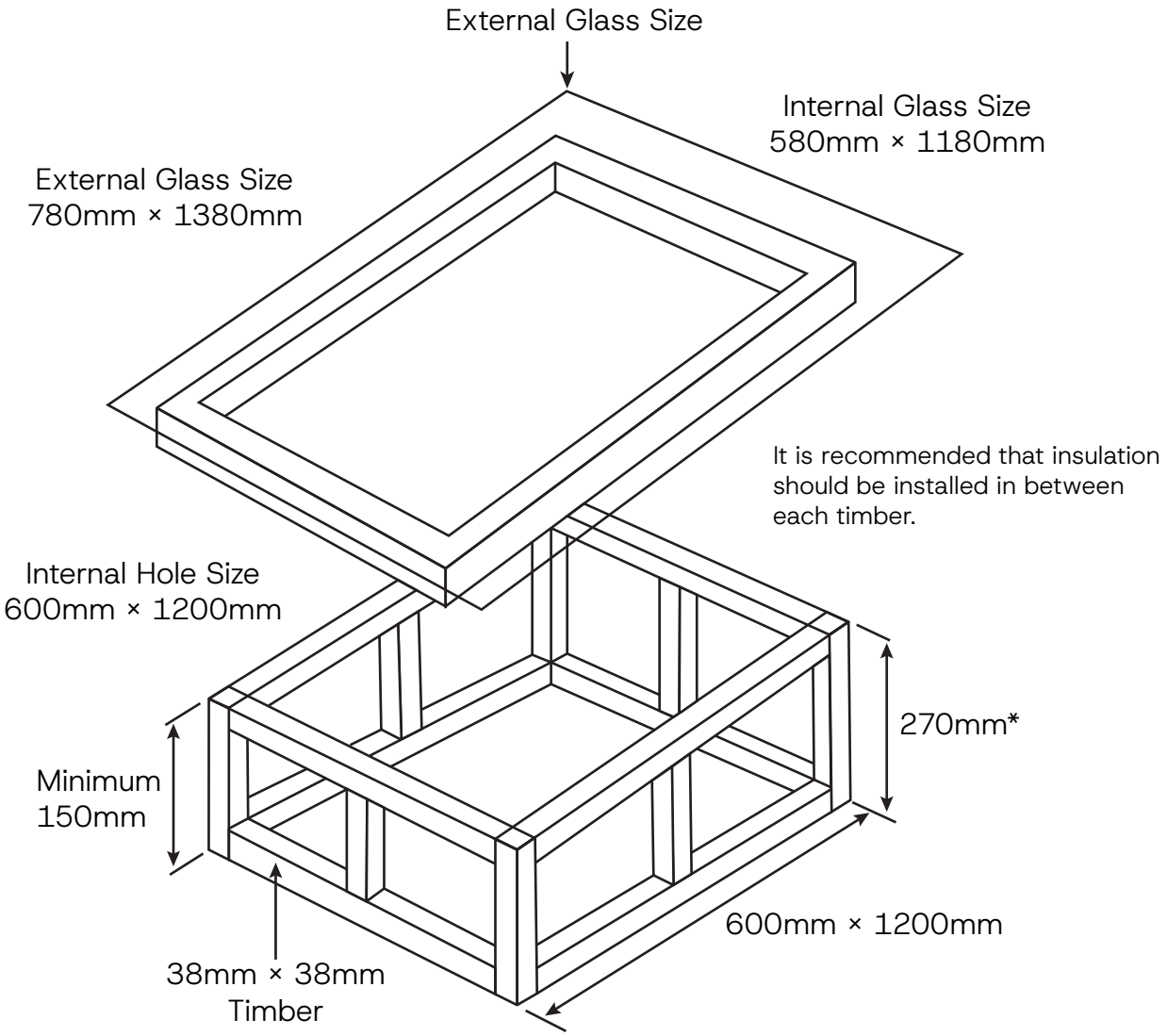
Technical Drawing

Using **38mm** Thick CLS Rafters

HITECH Rooflights Technical drawing using our own kerb. For more fitting instructions and technical details visit our website.



Suggested Timber Kerb Ladder Construction







*10mm per 100mm