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product

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Technical Information

Building regs and performance

The rooflight Stepped Insulated Glazed Units (IGU's) we supply are suitable for single storey flat roof extensions to existing residential dwellings. As each project can vary with requirements, we suggest confirming building regulation requirements for the product with the architect, builder or building officer prior to placing an order to ensure compliance. The installer should undertake a risk assessment. For example, it may need to be obscure, triple glazed, bigger upstand, suitable for walking on, laminated, etc.

You can also get an flat skylights, and range of a range of roof lanterns.



Standard units

Our standard units are double glazed with clear toughened glass top pane manufactured to BS EN 12150 and conform to BS EN 1279, 18mm argon-fill cavity structurally sealed with toughened Low-E glass to achieve a centre pane 1.1 u-value. Glass thickness for standard size units are 6mm toughened. Glass speciation and thickness will vary for larger units.

4.9 / 5
★★★★★
Verified
Customer
Feedback

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Triple and quad glazed units

Our triple and quad glazed options provide even higher performance ratings. 1.6 minimum U-value rating is currently required to comply with building regulations. The solar control layer prevents heat escaping and reflects interior heat back into the room

TGS Skylight Thermal Ratings

Make-up Name	Glass 1 & Coating	Glass 2 & Coating	Visible Light			Solar Energy			Thermal Properties		
			Transmittance	Reflectance		Transmittance	Reflectance	Solar Factor (%)	Secondary Heat Transfer (W)	U-Value	U _g (W/m ² K)
				(T _v %)	(R _v % in)						
Default Make-up 01	Guardian ExtraClear (CE)	ClimaGuard® A 1.1 (CE) on Guardian ExtraClear (CE)	78.5	12.7	13.4	54.6	25.3	63.4	8.8	1.1	

Calculation Standard: EN 410:2011 / EN 673:2011

Default Make-up 01

		Outdoors		Indoors	
GLASS 1	Guardian ExtraClear (CE)	#1 ---	#2 ---		
	Thickness = 6mm				
GAP 1	10% Air, 90% Argon, 18mm				
GLASS 2	Guardian ExtraClear (CE)	#3 ClimaGuard® A 1.1 (CE)	#4 ---		
	Thickness = 6mm				
Total Unit (Nominal) = 30 mm		Slope = 90°			
Estimated Nominal Glazing Weight: 29.19 kg/m ²					

Standard Double Glazed

Make-up Name	Glass 1 & Coating	Glass 2 & Coating	Visible Light			Solar Energy			Thermal Properties		
			Transmittance	Reflectance		Transmittance	Reflectance	Solar Factor (%)	Secondary Heat Transfer (W)	U-Value	U _g (W/m ² K)
				(T _v %)	(R _v % in)						
Default Make-up 01	Guardian ExtraClear (CE)	Guardian ExtraClear (CE)	71.5	18.8	18.6	48.0	25.7	97.4	9.4	0.9	

Calculation Standard: EN 410:2011 / EN 673:2011

Default Make-up 01

		Outdoors		Indoors	
GLASS 1	Guardian ExtraClear (CE)	#1 ---	#2 ---		
	Thickness = 6mm				
GAP 1	10% Air, 90% Argon, 18mm				
GLASS 2	Guardian ExtraClear (CE)	#3 ---	#4 ---		
	Thickness = 6mm				
GAP 2	10% Air, 90% Argon, 18mm				
GLASS 3	Guardian ExtraClear (CE)	#5 ClimaGuard® A 1.1 (CE)	#6 ---		
	Thickness = 6mm				
Total Unit (Nominal) = 54 mm		Slope = 90°			
Estimated Nominal Glazing Weight: 43.78 kg/m ²					

Standard Triple Glazed

Optional Extras

Coloured borders – If required we can paint any RAL colour to the border which is usually 100mm wide all around.

Pilkington Activ self cleaning glass – Applied coating breaks down dirt and washes away with rain water.

Pilkington Activ blue self cleaning glass – In addition to self cleaning properties the blue tint provides additional solar control performance by keeping internal temperatures cool whilst maintaining light transmission

Triple glazed skylights – achieving 0.9 centre pane U Value rating.

Privacy glass – We can apply a sandblasted frosted layer to make the skylight obscure.

