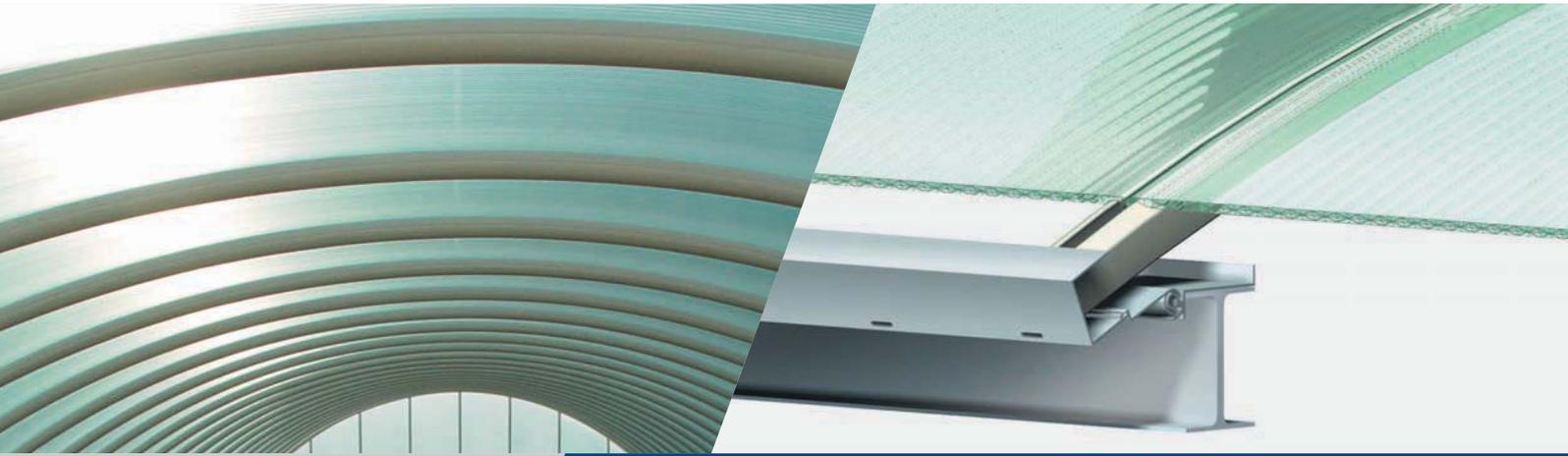


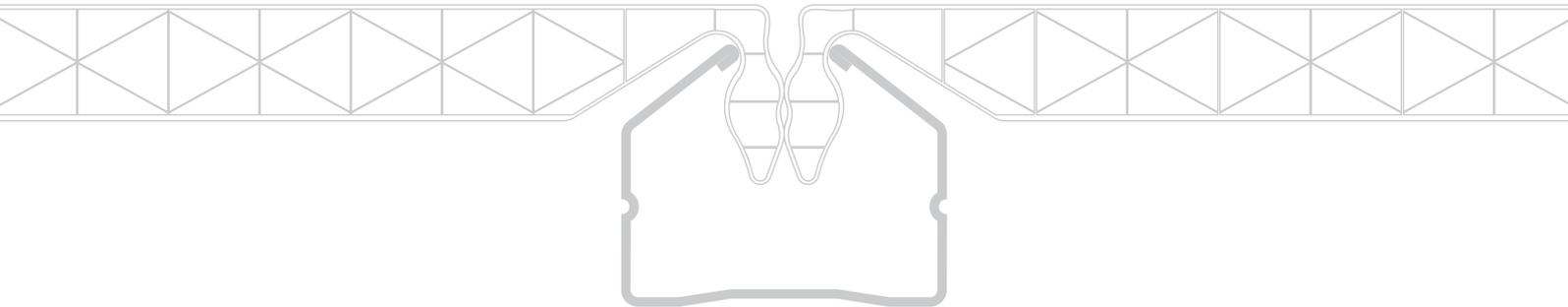


Rockwell
GLAZING SOLUTIONS



System 655/16

Curved



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System 655/16

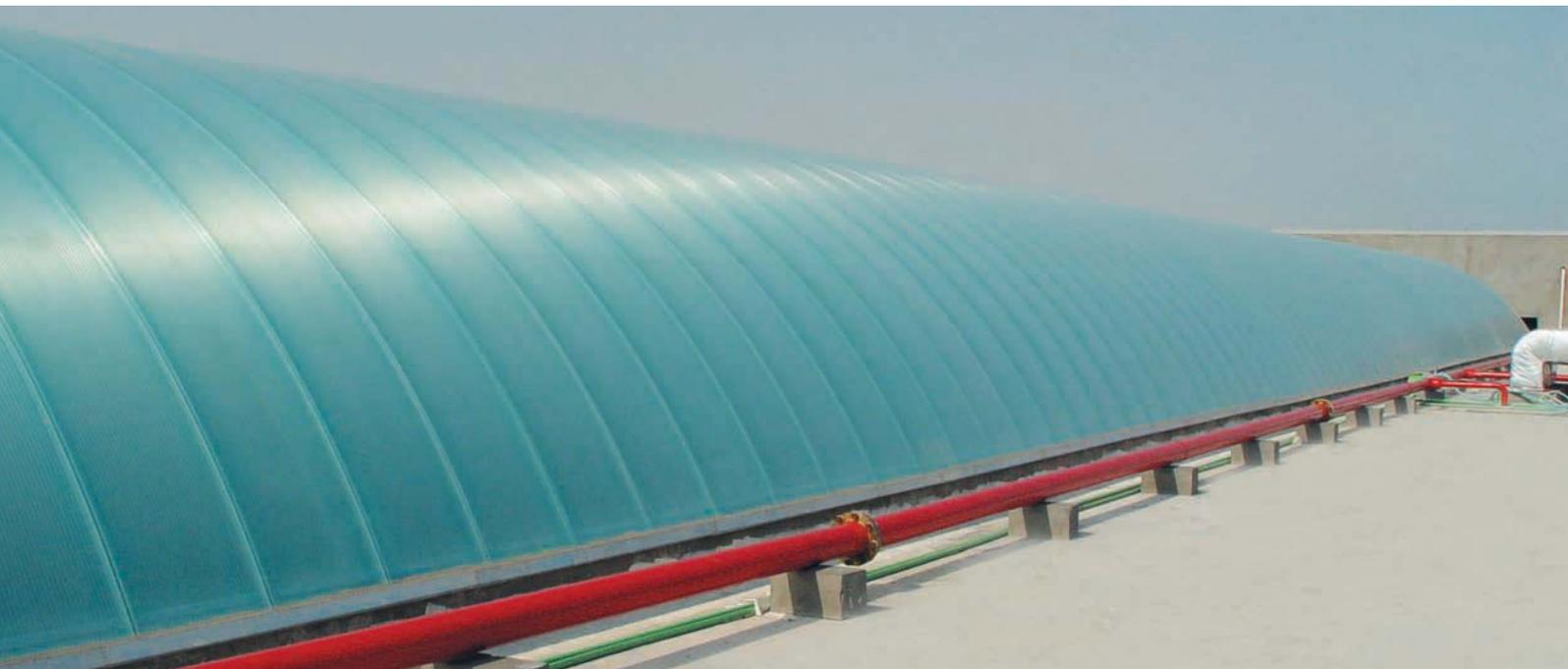
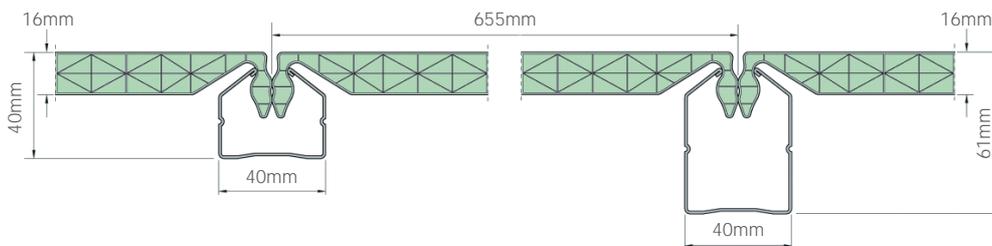
Curved

Simple / Safe / Stylish

System 655/16 - a versatile curved glazing system offering high strength and insulation combined with streamline aesthetics. Ideally suited to canopy and walkway coverings, plus rooflights and pool room roofs, System 655/16 barrel vault glazing offers a range of design advantages.

System Benefits:

- Provides areas of safe shading - filters 98% of harmful UV rays
- Good insulation - thermal transmittance (U-value) of 2.2W/m²K
- Impact resistant 'class B' non-fragile roofing assembly to ACR(M)001:2005
- Large weight saving over glass means less support structure required
- Minimum of system components for quick, simple and secure fixing
- Choice of diffusing clear and opal finishes or 10 attractive sheet colours
- Perimeter trims can be powder coated in any RAL or BS colour
- Sheets and glazing channels manufactured to a maximum curved length of 8m
- Fully recyclable components with minimal environmental impact
- Manufactured to UNI EN ISO 9001:2008 quality standard
- System variations also available for pitched and vertical glazing



System 655/16

Curved



System 655/16

Curved

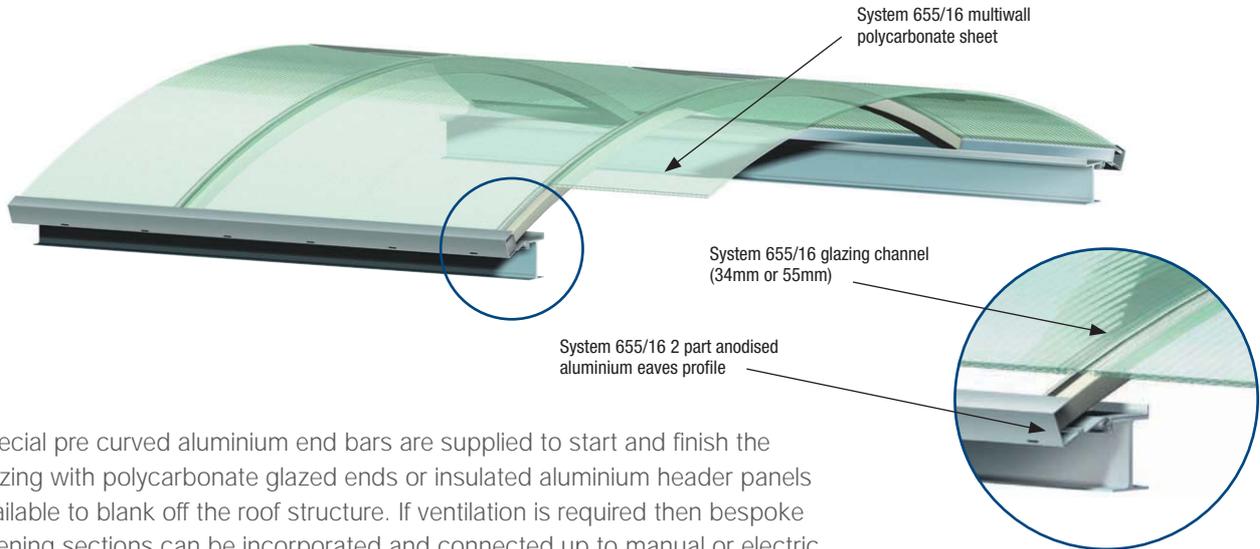


System 655/16

Curved

Quick Installation

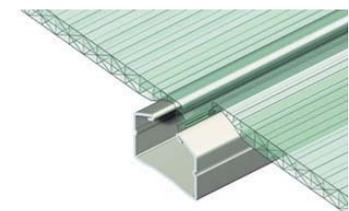
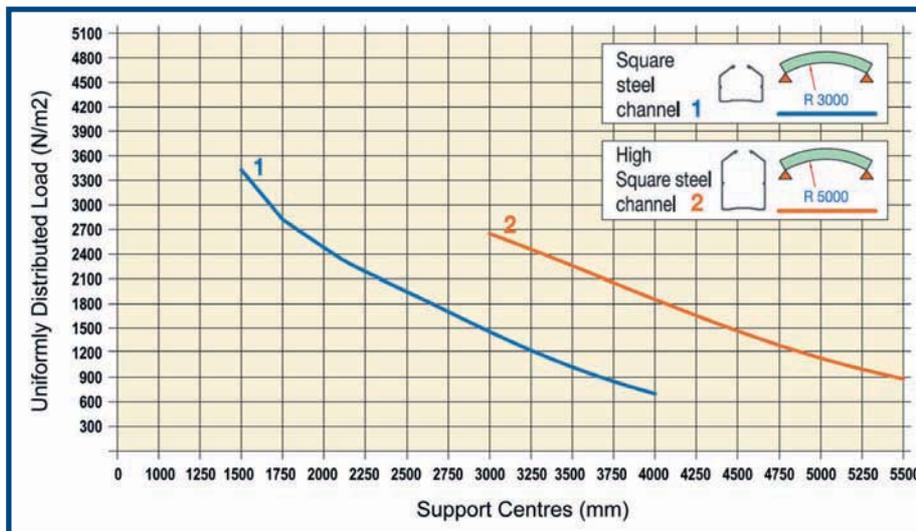
With the minimum of standard components, 655/16 curved is a glazing system of unrivalled simplicity. The system glazing channels are supplied pre curved to the required radius and secured within aluminium eaves profiles at 655mm centres. The eaves profiles are in turn screw fixed to the supporting kerbs. The unique 'hooked edge' of the 655/16 polycarbonate sheet is then simply snapped down into place with aluminium packing inlays inserted between glazing channels on the underside of the sheet.



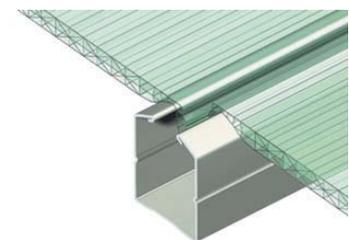
Special pre curved aluminium end bars are supplied to start and finish the glazing with polycarbonate glazed ends or insulated aluminium header panels available to blank off the roof structure. If ventilation is required then bespoke opening sections can be incorporated and connected up to manual or electric opening mechanisms.

This unique modular design of System 655 leaves the polycarbonate surface smooth, free from unsightly glazing bar caps and mechanical fixings - and with each sheet supplied factory sealed to the exact length required, the contractors fitting time and site work is dramatically reduced.

Spanning & Loading Data



34mm Square Glazing Channel



55mm High Square Glazing Channel

System 655/16

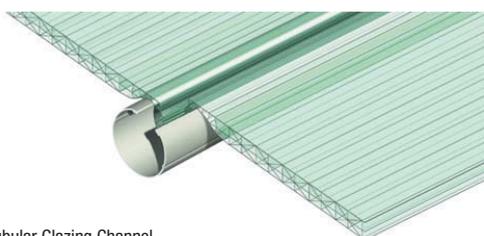
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Technical Specification

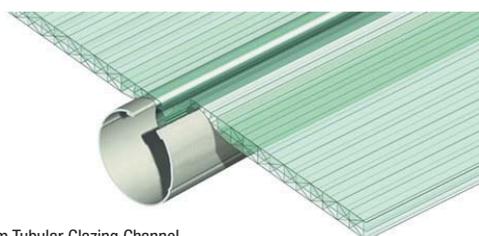
Sheet/module width, thickness & structure	655mm wide (+/- 5mm) x 16mm thick 'X' structure multiwall polycarbonate with hooked edges and factory sealed ends
Sheet length	Made to length (max. 8m) in c.4 weeks or 4m, 5m, 6m ex. stock (stock colours: clear, opal white, pacific blue and sea grass green)
Standard sheet colours	Opal white or clear with satinized surface texture
Special sheet colours (subject to min. quantity/surcharge)	Bronze, sea grass green, light grey, light blue, pacific blue, sunburst yellow, amber cherry red & fuchsia pink tints. Also a Solar Ice heat reducing finish is available
Steel glazing channel size/weight	40 x 34 x 1mm thick - pre curved to 3000mm min. radius and supplied to length - 0.88 Kg/m 40 x 55 x 1mm thick - pre curved to 5000mm min. radius and supplied to length - 1.16 Kg/m
Glazing channel finish	Plastic coated in grey white (RAL 9002)
Impact resistance	High impact resistance achieved with tests simulating hail and falling objects
Average system weight	34mm square channels - c.4.0Kg/m ² 55mm high square channels - c.4.5Kg/m ²
Eaves profile type/finish	Anodized silver aluminium or PPC in 6m stock lengths, average weight c.2.0Kg/m
Thermal transmittance	U-Value: 2.2 W/m ² K
Noise reduction	20dB (DIN 52210-75 Rw)
Non-fragility rating	Class 'B' to ACR(M)001:2005 (using 55mm high square channel at max. 2.68m span)
Light transmission	Clear: 60% Opal: 41%
Solar Factor (G-value)	Clear: 0.69 Opal: 0.55
Support structure	Suitable metal sections/angles, timber or blockwork as required
Working temperature range	-40°C to +130°C (+100°C for prolonged exposure)
Fire classification	Euroclass - EN13501-1 2006 B-s1, d0 (as UK Class 0)
System extras available	Polycarbonate glazed ends or aluminium headers and complete opening sections
Warranty period	10 year limited warranty covering discolouration and hailstone damage

Profiles

To accommodate different spanning requirements, System 655/16 curved uses either 34mm square or 55mm high square glazing channels as standard. These steel channels are pre curved to a min. radii of 3000mm and 5000mm respectively. Also available are 34mm and 55mm diameter tubular glazing channels which can offer a slightly different appearance to the underside of the glazing as well as allowing tighter barrel shapes to be achieved. The 55mm tubular channels enable System 655/16 to have a min. radius of 3500mm over free spans of up to 5000mm.



34mm Tubular Glazing Channel



55mm Tubular Glazing Channel

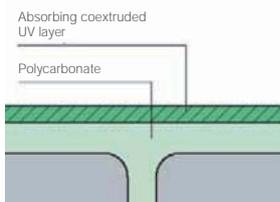
System 655/16

Curved

A comprehensive range of DWG files relating to this system as well as an installation guide are available to download at: www.rockwellsheet.com

Polycarbonate Properties

Characteristics	Kind of test	Unit	Standard	Values
Mechanical	Tensile stress at yield	N/mm ²	DIN 53455	>60
	Tensile stress at break	N/mm ²	DIN 53455	>70
	Extension under stress	%	DIN 53455	6-8
	Extension under breaking	%	DIN 53455	<100
	Elastic module/flexural modulus	N/mm ²	DIN 53457	2300
	IZOD notched impact resistance (23°C)	J/m	ASTM D256	700
Physical	Density	g/cm ³	DIN 53479	1.2
	Refraction index		DIN 53491	1.59
	Water absorption (24h - 23°C) in immersion	%	DIN 53495	0.36
	Steam permeability (thickness 0.1m/24h)	g/m ³	DIN 53122	15
Thermal	VST/B vicat heat resistance temperature	°C	DIN 53460	145-150
	Linear thermal expansion	1/°C	VDE 034/1	6.7x10 ⁻⁵
	Thermal conductivity	W/m°C	DIN 52612	0.21



UV Protection

A protective UV absorbing layer is applied during the sheet extrusion. This ensures long life and prevents transmission of 98% of harmful UV radiation.

All information and recommendations for use are given in good faith. In line with a policy of continuous improvement Rockwell reserves the right to amend specifications without prior notice. For further advice on the general use of polycarbonate products view the FAQ's section of Rockwell's web site.

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