

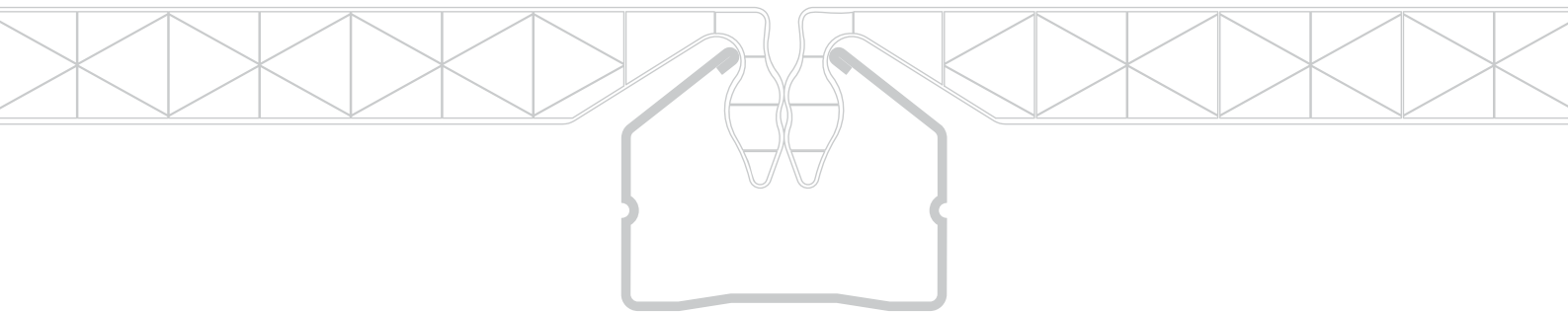


**Rockwell**  
GLAZING SOLUTIONS



System 655/16

Vertical



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Image courtesy of D5 Architects & Alastair Carew-Cox

System 655/16

Vertical

# Simple / Safe / Stylish

System 655/16 - a versatile vertical glazing system offering high strength and insulation combined with streamline aesthetics. Ideal for use on sports halls, clerestory glazing, walkway screens, northlights and building facades, System 655/16 offers a range of design advantages.

## System Benefits:

- Blocks 98% of harmful UV rays whilst transmitting diffused daylight
- Good insulation - thermal transmittance (U-value) of 2.2W/m<sup>2</sup>K
- Impact resistant 'class B' non-fragile 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
- Available from stock or manufactured to length to avoid waste
- Choice of diffusing clear and opal finishes or 10 attractive sheet colours
- Glazing bar and perimeter trims can be powder coated in any RAL or BS colour
- Sheets and channels available in lengths up to 8m for tall glazed areas
- Fully recyclable components with minimal environmental impact
- Manufactured to UNI EN ISO 9001:2008 quality standard
- System variations also available for pitched glazing and barrel vault applications

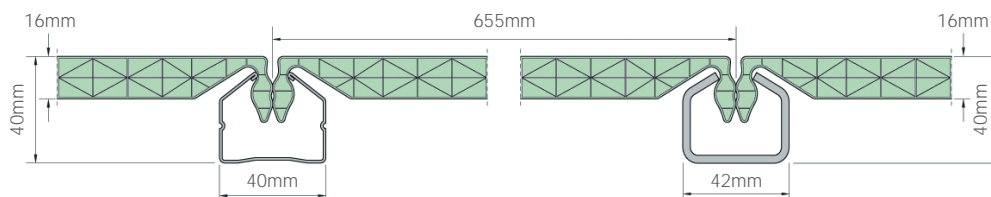


Image courtesy of D5 Architects & Alastair Carew-Cox

System 655/16

Vertical



## System 655/16

A lightweight alternative to georgian wired glass.



Images courtesy of RCC Ltd

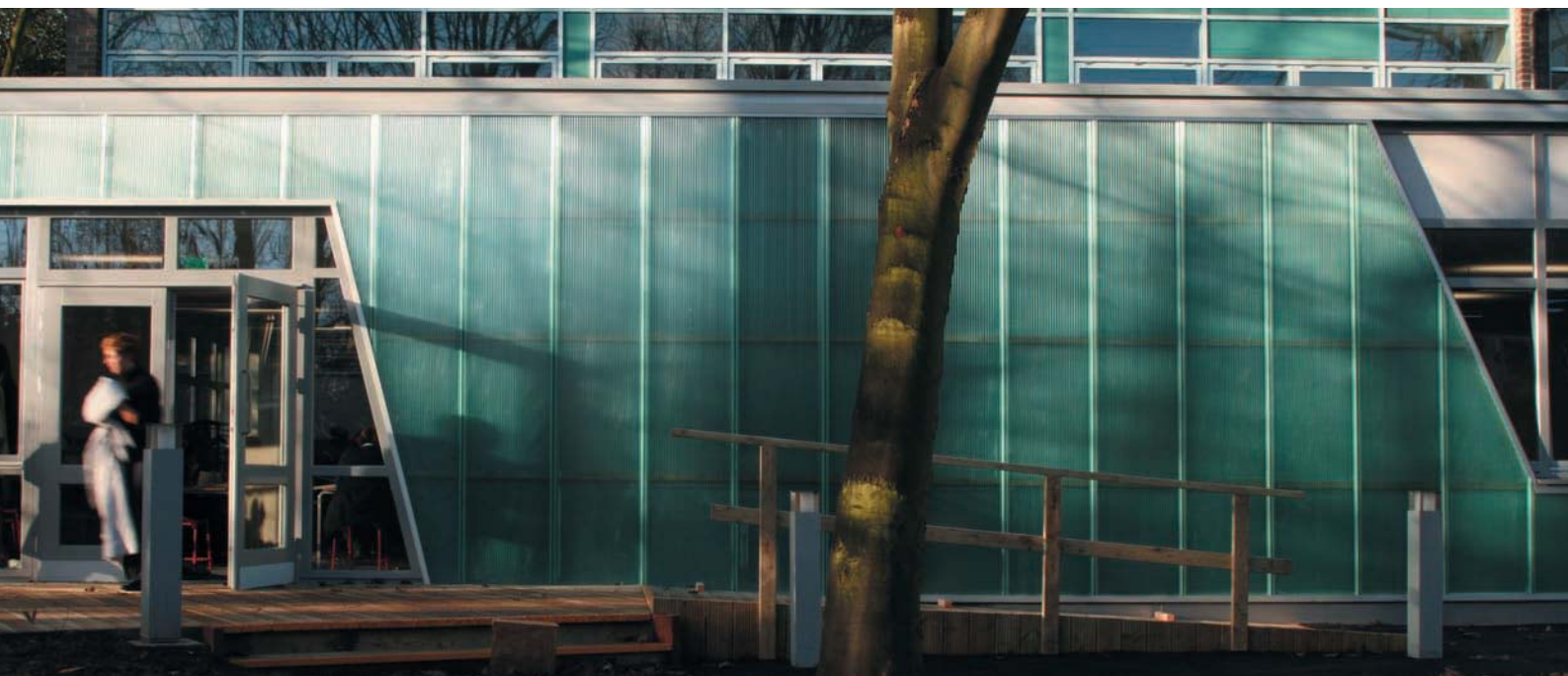
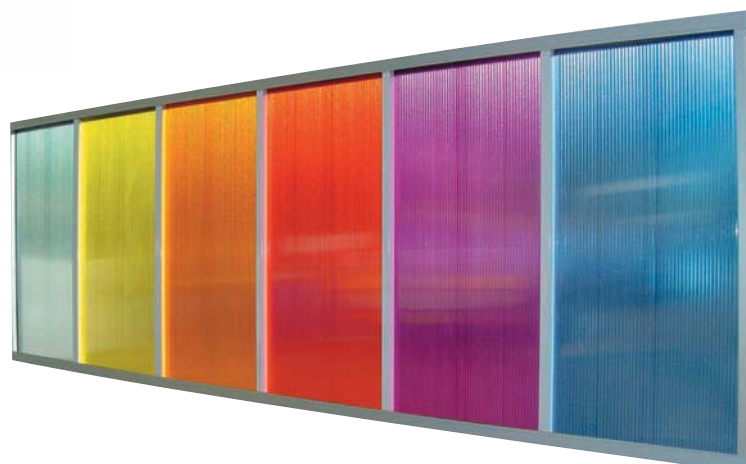
System 655/16

Vertical



## Connect with colour

System 655 is available in 11 attractive sheet finishes with system accessories available powder coated to any colour.



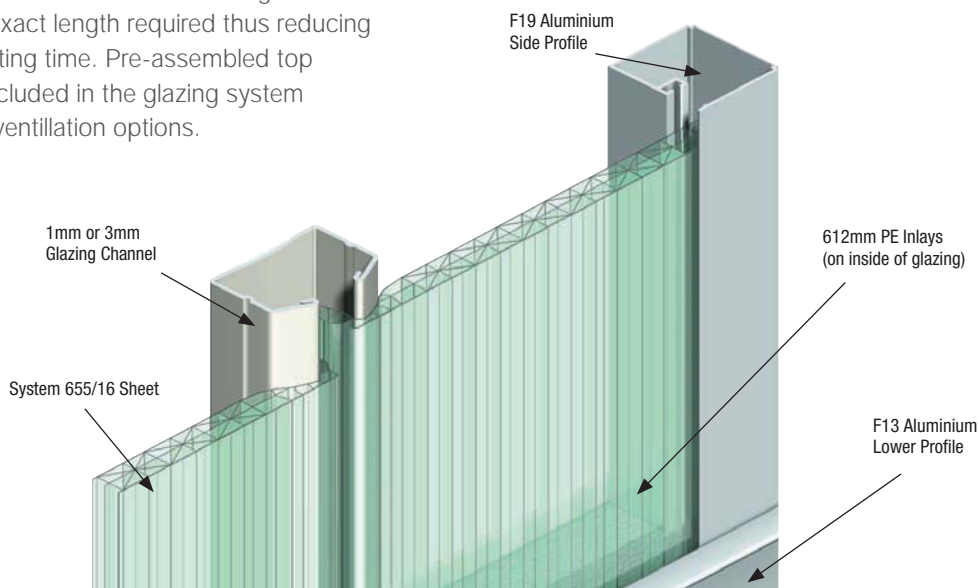
System 655/16

Vertical

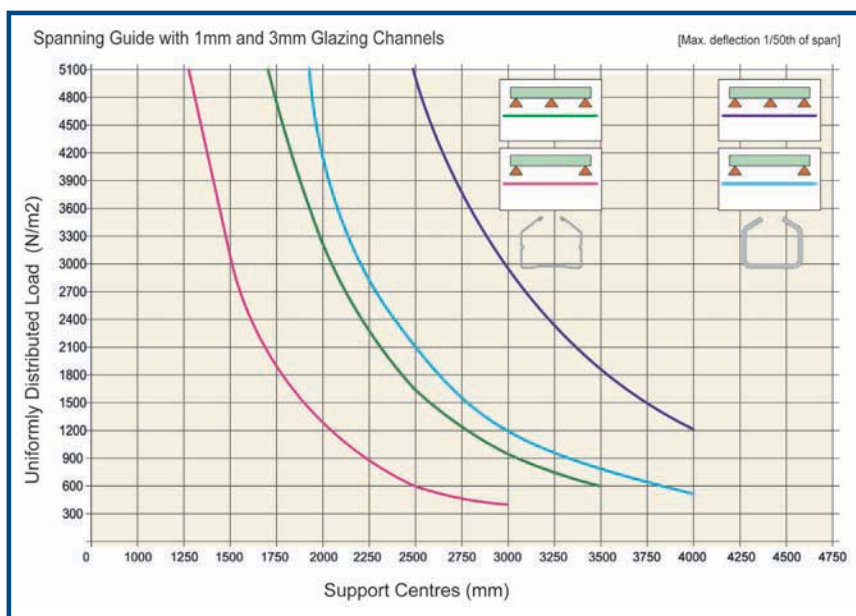
# Quick Installation

With the minimum of components 655/16 is a glazing system of unrivalled simplicity. System glazing channels are secured to the supporting framework at 655mm centres with the unique 'hooked edge' of the 655/16 sheets then simply snapped down into place. The perimeter of the glazing is capped with durable anodised aluminium finishing profiles with PE foam inlays installed as necessary. This unique modular design of system leaves the polycarbonate surface smooth, free from unsightly glazing bar caps and mechanical fixings

A further advantage System 655/16 can offer is having each sheet and channel supplied at the exact length required thus reducing the installer's site work and fitting time. Pre-assembled top hung windows can also be included in the glazing system to offer manual or automatic ventilation options.



## Spanning & Loading Data



System 655/16

Vertical

# 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 x made to length or 4m, 5m, 6m ex. stock - 0.88 Kg/m 42 x 34 x 3mm thick x made to length or 4m, 5m, 6m ex. stock - 2.65 Kg/m
Glazing channel finish	1mm thick - plastic coated in grey white (RAL 9002) 3mm thick - pre-painted white (RAL 9010) or PPC to any standard RAL or BS colour
Impact resistance	High impact resistance achieved with tests simulating hail and falling objects
Average system weight using	1mm channels - c.3.8Kg/m <sup>2</sup> 3mm channels - c.6.5Kg/m <sup>2</sup>
Perimeter profile type/finish	Anodized silver aluminium or PPC in 6m stock lengths, average weight c.1.0Kg/m
Thermal transmittance	U-Value: 2.2 W/m <sup>2</sup> K
Noise reduction	20dB (DIN 52210-75 Rw)
Non-fragility rating	Class 'B' to ACR(M)001:2005 (with 3mm channels supported at max. 3.0m centres)
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	Anodized aluminium sill profiles and top hung windows, mill finish/PPC thermal break profiles
Warranty period	10 year limited warranty covering discolouration and hailstone damage



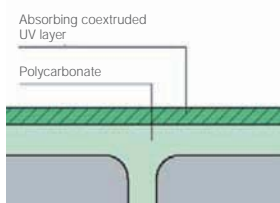
System 655/16

Vertical

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

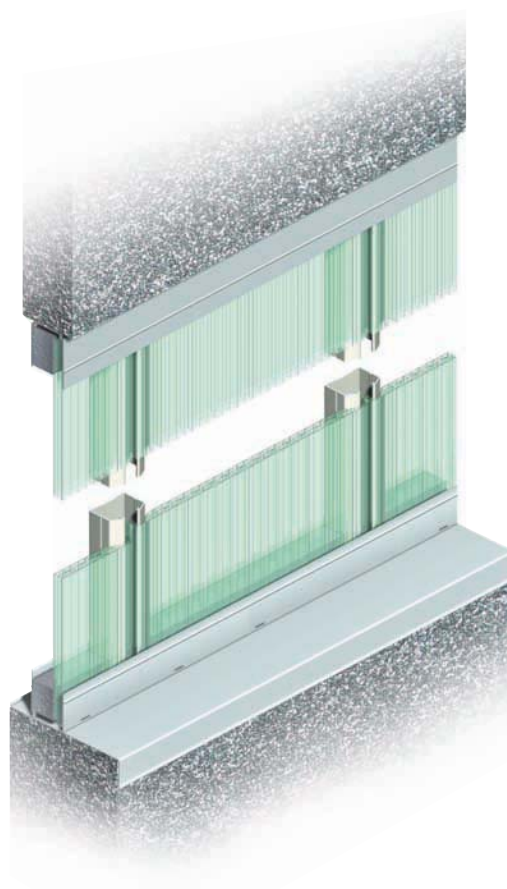
# Polycarbonate Properties

Characteristics	Kind of test	Unit	Standard	Values
Mechanical	Tensile stress at yield	N/mm <sup>2</sup>	DIN 53455	>60
	Tensile stress at break	N/mm <sup>2</sup>	DIN 53455	>70
	Extension under stress	%	DIN 53455	6-8
	Extension under breaking	%	DIN 53455	<100
	Elastic module/flexural modulus	N/mm <sup>2</sup>	DIN 53457	2300
	IZOD notched impact resistance (23°C)	J/m	ASTM D256	700
Physical	Density	g/cm <sup>3</sup>	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 <sup>3</sup>	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 <sup>-5</sup>
	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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