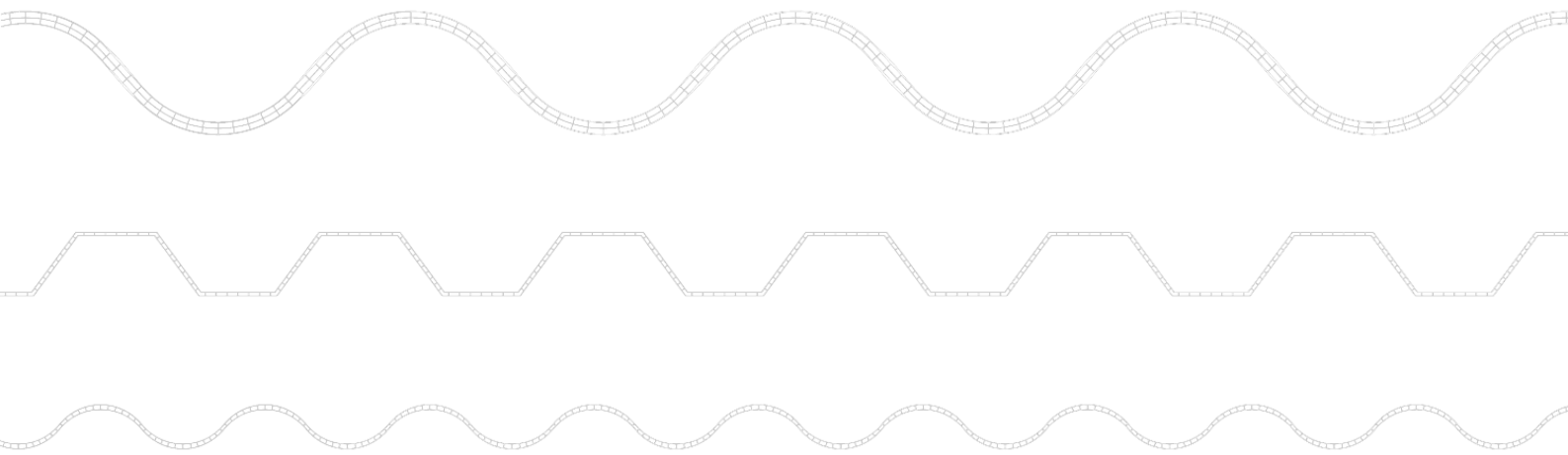




Rockwell
GLAZING SOLUTIONS



Corrugated Multiwall Polycarbonate



Rockwell Sheet Sales Ltd
Rockwell House
Birmingham Road
Millisons Wood
Coventry, CV5 9AZ

Tel 01676 523386
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info@rockwellsheet.com
www.rockwellsheet.com





Image courtesy of Alex de Rijke/dRMM Architects



Corrugated Multiwall Polycarbonate

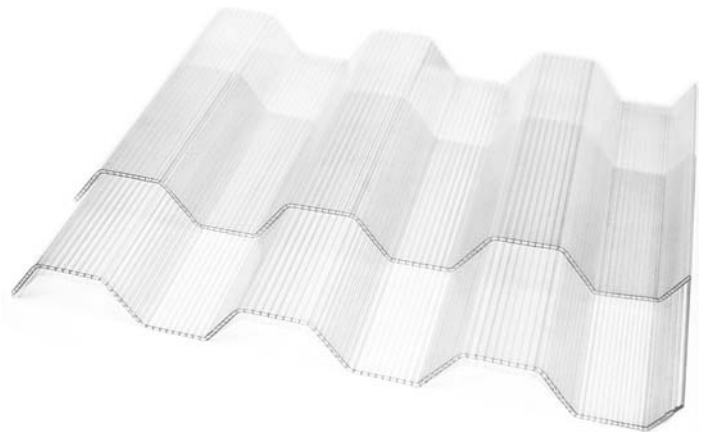
Simple / Safe / Stylish

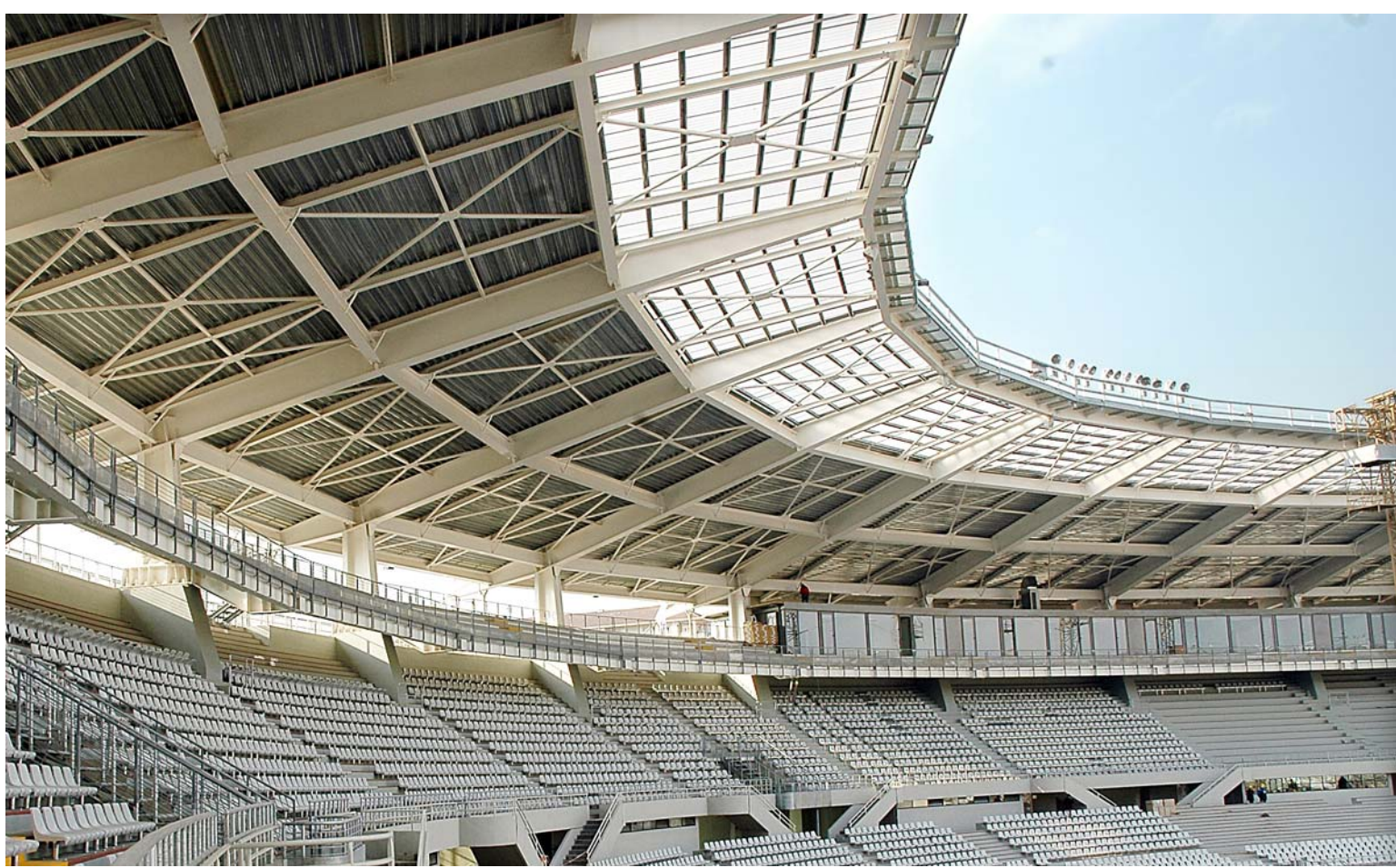
Rockwell offers a range of twinwall and triplewall corrugated polycarbonate sheets produced in standard form in lengths up to 7m. Most sheets can also be manufactured with a pre-curved radius of 3.5m or 6m in lengths up to 4m and 5.5m respectively.

Sheets are suited to both continuous overlapping for canopy roofs and cladding or can be incorporated within metal or fibre cement profiles as high strength rooflights.

Benefits:

- Provides areas of safe shading - filters 98% of harmful UV rays
- Weight saving over GRP rooflight sheets means easier handling
- Durable multiwall polycarbonate structure improves profile rigidity
- Choice of diffusing clear and opal finishes as well as 10 attractive sheet colours
- Sheets manufactured to lengths up to 7m and supplied with heat sealed ends
- Clear sheet transmits up to 84% of daylight, opal transmits up to 76%
- Produced to UNI EN ISO 9001:2008 quality standard with 10 year weathering warranty
- Can cold curve or available with pre-curved finish depending on radius
- Cellular sheet structure reduces condensation associated with single skin roof structures
- Self-extinguishing with fire rating Euroclass - EN13501-1 2006 B-s1, d0 (as UK Class 0)
- Working temperature range -40°C to +130°C
- Fully recyclable with minimal environmental impact





Corrugated Multiwall Polycarbonate

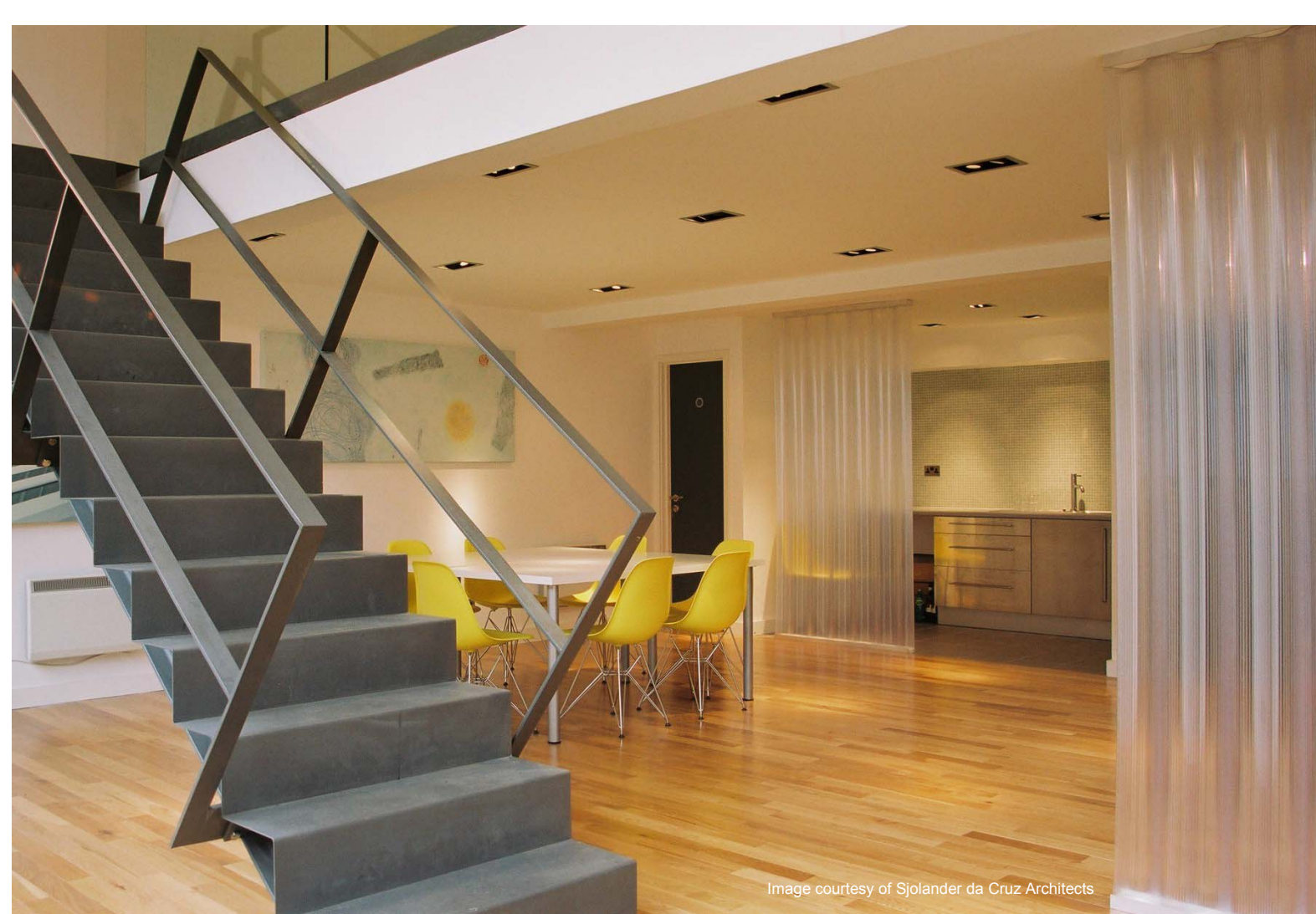


Image courtesy of Sjolander da Cruz Architects

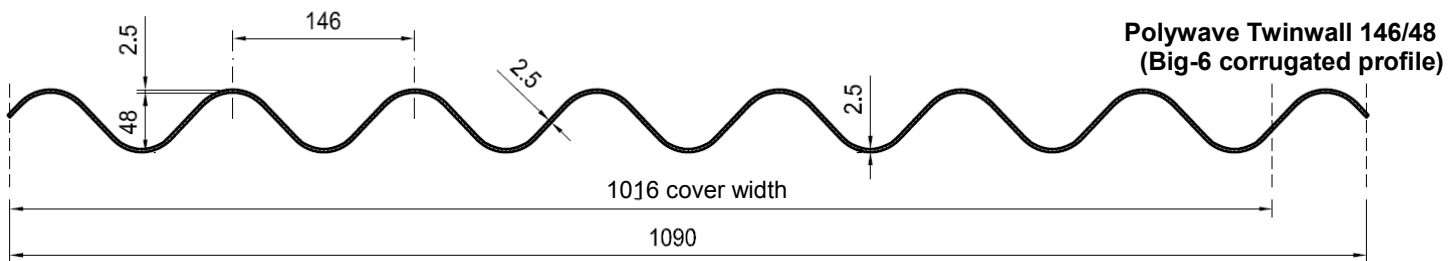
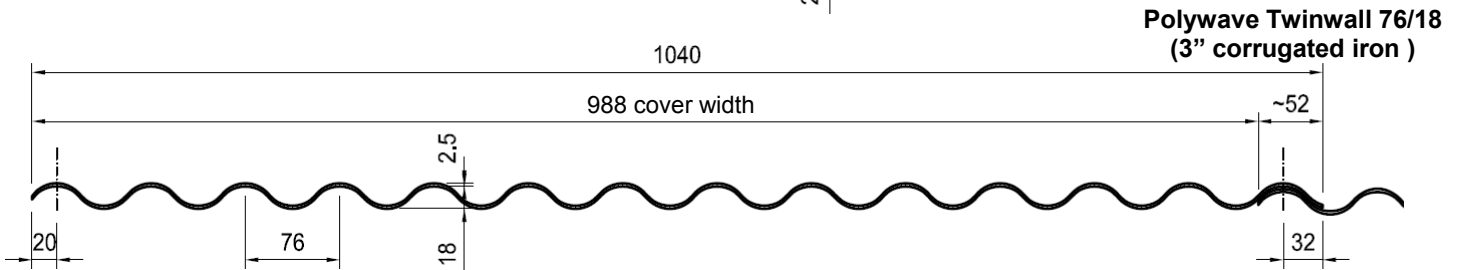
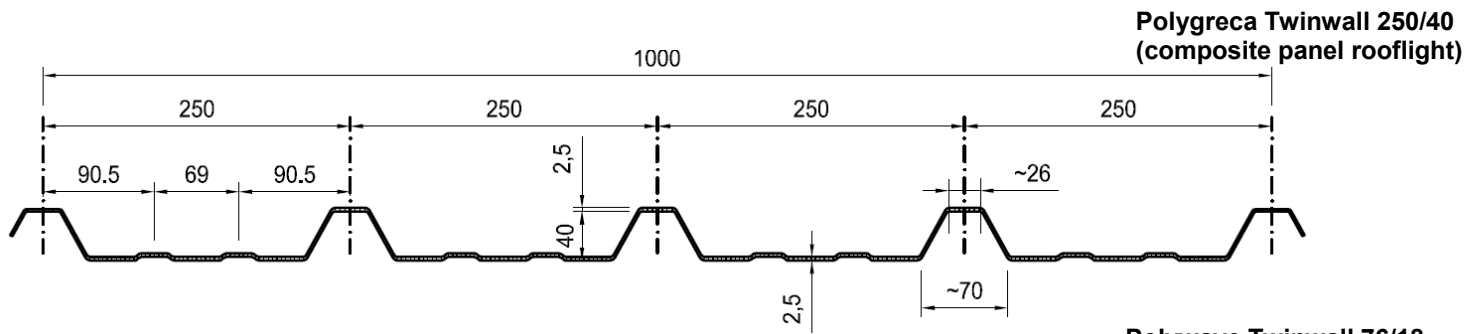
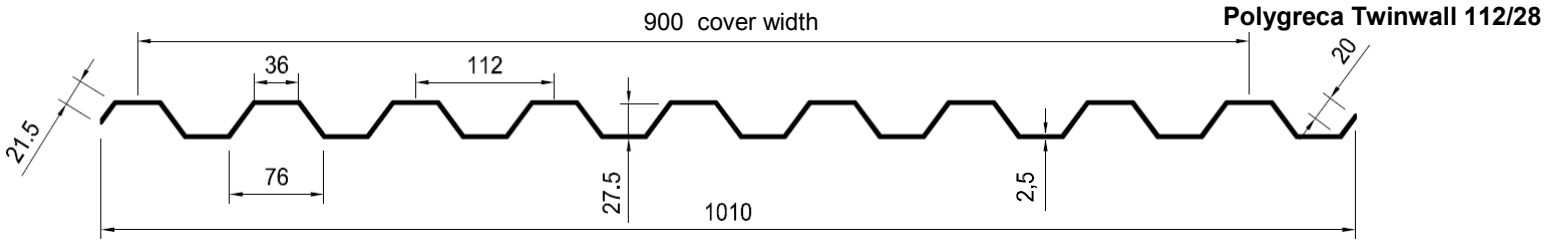


Corrugated Multiwall Polycarbonate

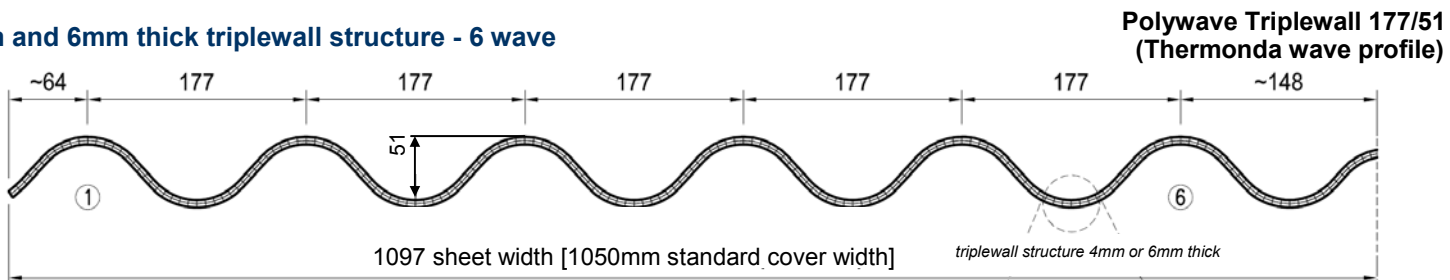
Profiles

Multiwall sheets are available in a range of sinusoidal/wave and greca/box profiles, below are some popular ones:

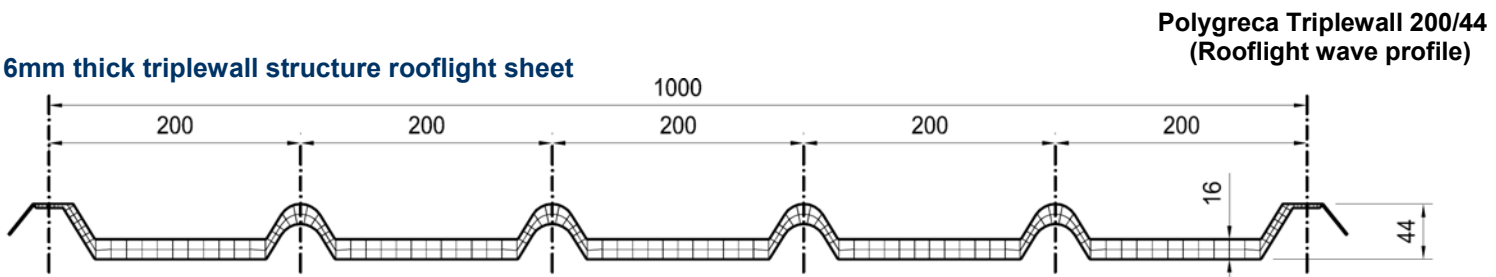
2.5mm twinwall structure



4mm and 6mm thick triplewall structure - 6 wave



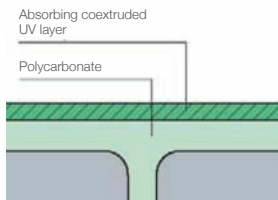
16mm thick triplewall structure rooflight sheet



Other thicknesses and profiles of rooflight sheets are also available - see downloadable DWG or PDF drawings

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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