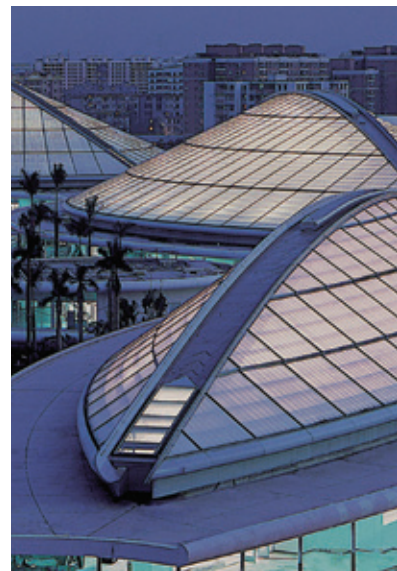


DANPAL[®] ROOFING SYSTEMS

Modular Glazing
Solution for Roofs



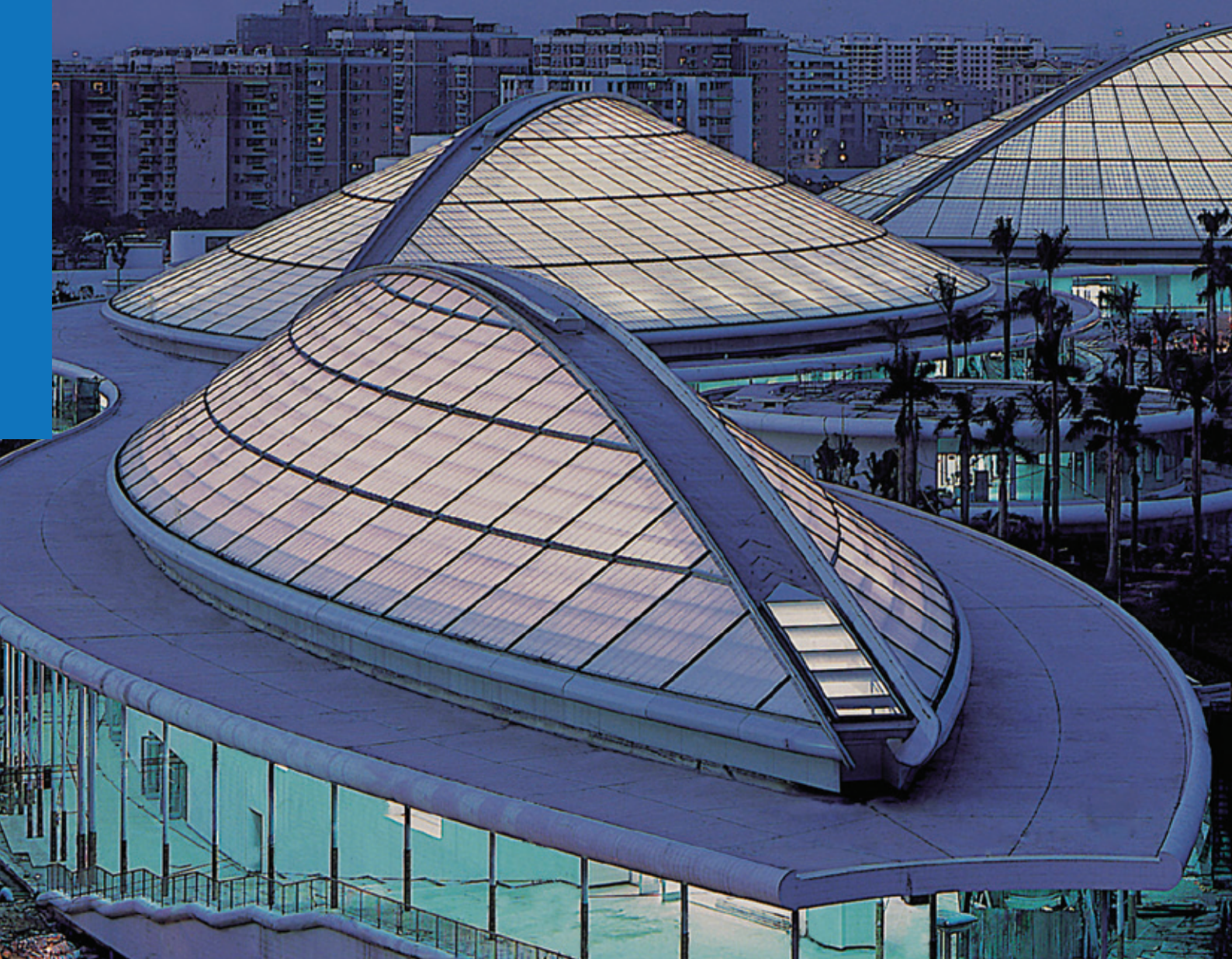
ROOFING



SKYLIGHTS

Danpal[®]
Light Architecture

MODULAR GLAZING SOLUTION FOR ROOFING



Sports Complex, Guangzhou China | Danpal® Roofing System | Architect: Paul Andreu & Serge Carillion, ADPI Architecte



SINCE DANPAL® FIRST PIONEERED THE CONCEPT OF MECHANICALLY LOCKED POLYCARBONATE ROOFING, THEIR SYSTEMS HAVE TAKEN THE ARCHITECTURAL WORLD BY STORM WITH OUTSTANDING TECHNICAL AND AESTHETIC FEATURES. THE LARGE VARIETY OF COLOURS, FINISHES AND SPECIAL EFFECTS PROVIDE A DAZZLING ARRAY OF CREATIVE OPTIONS.

TAKE DAYLIGHTING TO ANOTHER LEVEL

Danpal® Roofing System is a translucent dry glazed system available in a variety of configurations for various types of structures. The engineering and design flexibility of the system comes from its substantial range of snap-on dry-glazed connectors, made from either polycarbonate or aluminium.

A WIDE RANGE OF CONVENIENT SOLUTIONS

Danpal® offers a wide range of roofing solutions, including:



TRADITIONAL

Roofing installed over conventional timber or steel framing



SOLARSPACE

Aluminium connectors above the panels creates a flush internal finish



SEAMLESS

Aluminium connectors below the panels create a flush external finish



FREESPAN

Aluminium bars below the panels support large spans

TRADITIONAL SYSTEM

- Polycarbonate or aluminium connection system
- Polycarbonate connector can cold curve on site
- Connections are concealed above the roof
- Easy-to-install



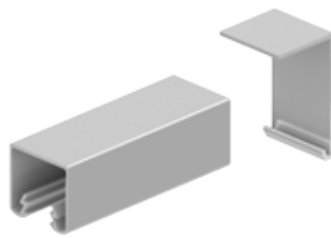
Mendizorroza Tennis Courts | Basque Country, Spain



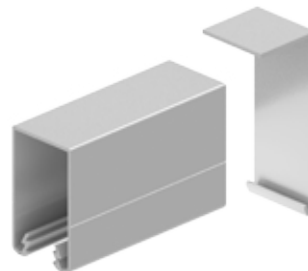
Prince Alfred College | Adelaide, SA | Walter Brooke Architects



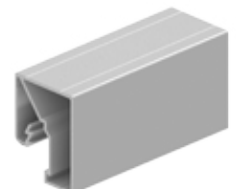
Polycarbonate connector



30mm connector



54mm connector



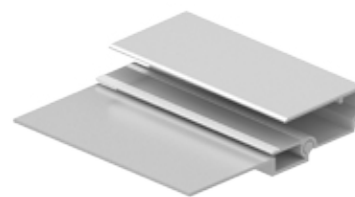
Side connector



Fastener



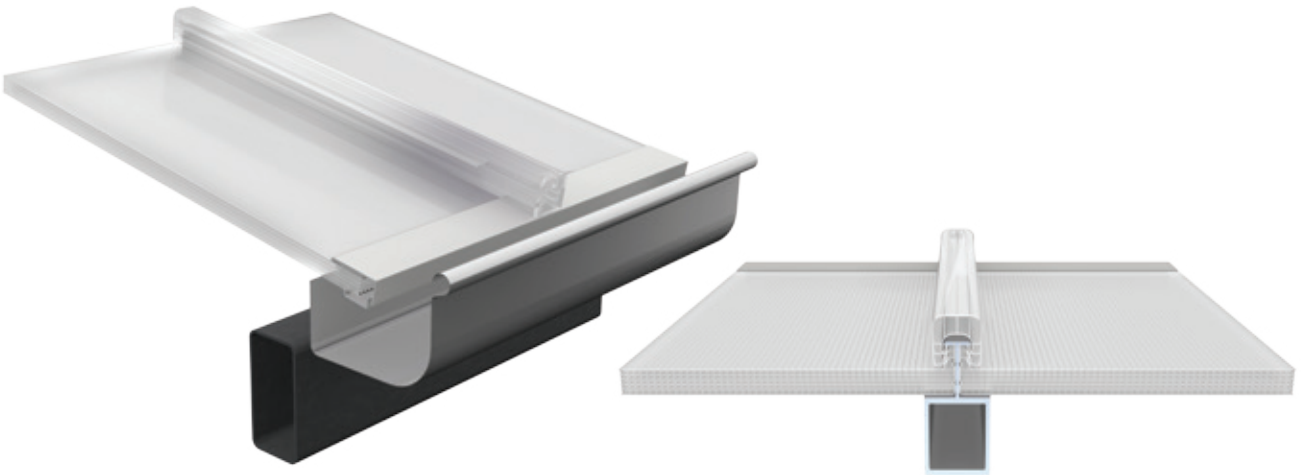
F-section



Lower pivot and pivot end cap

FREESPAN™ SYSTEM

- Easy-to-install
- Compatible with Controlite system



Saddle bracket



Basic bar cap



Structural bar cap



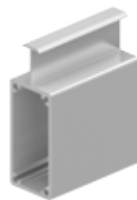
50mm bar



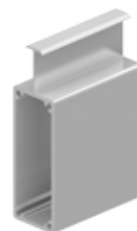
60mm bar



70mm bar



80mm bar



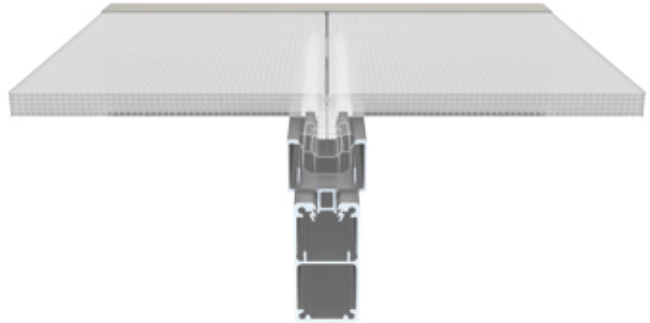
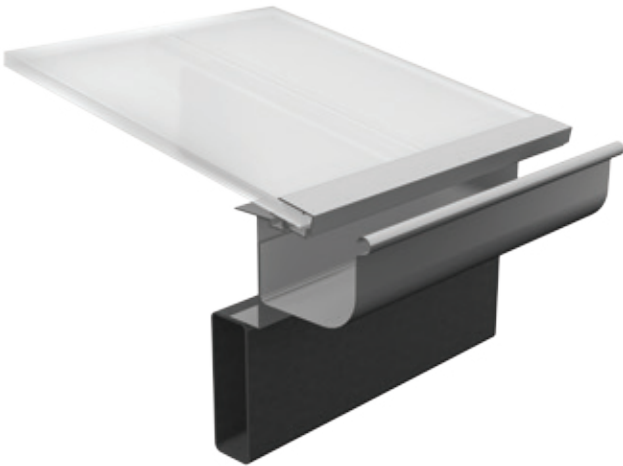
100mm bar



150mm bar

SEAMLESS™ SYSTEM

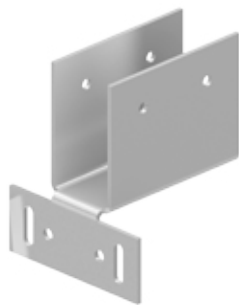
- Flush external roof finish
- Flexible joint allows for lateral movement
- Easy-to-install self-supporting system
- Compatible with Controlite system



West Leederville Primary School
West Leederville, WA | Slavin Architects



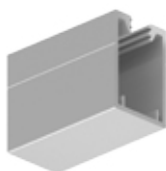
Regency Park Tavern | Regency Park, SA



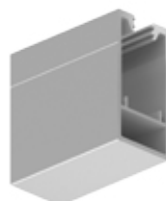
Girt
bracket



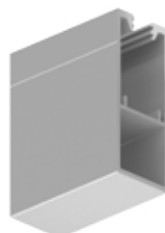
Saddle
bracket



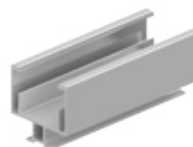
60mm
connector



80mm
connector



100mm
connector



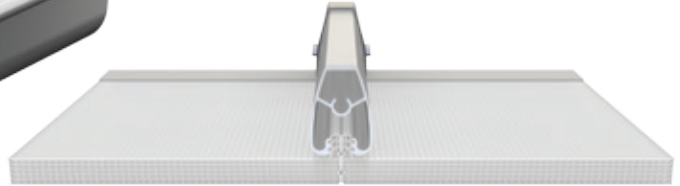
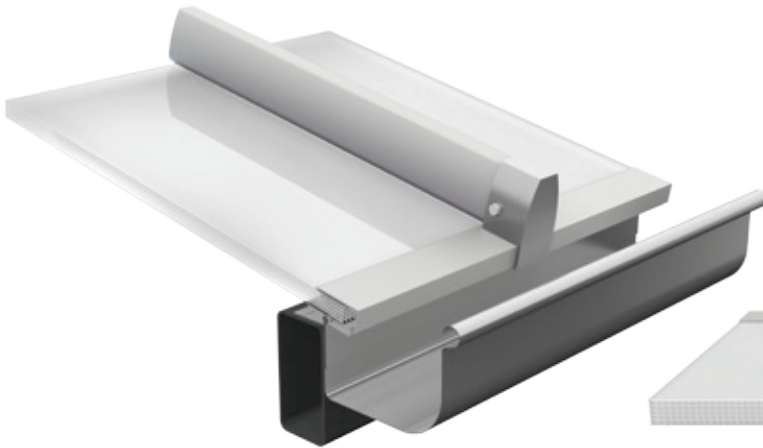
Aluminium
expansion
connector



Polycarbonate
expansion
connector

SOLARSPACE SYSTEM

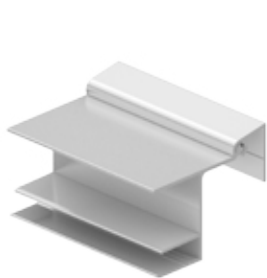
- Flush ceiling-like finish to underside of roof
- Simple pivoting connection to building frame
- Easy-to-install self-supporting system



Star of the Sea Home for the Aged
Wallaroo, SA | Russell & Yelland Architects



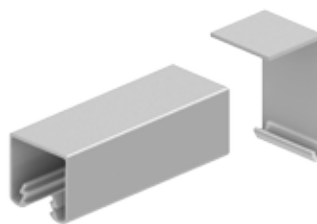
Banksia Grove Primary School
Banksia Grove, WA | Slavin Architects



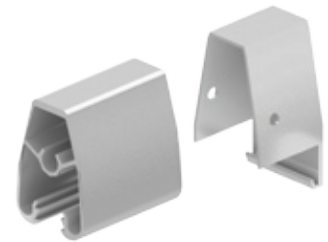
Standard
upper pivot



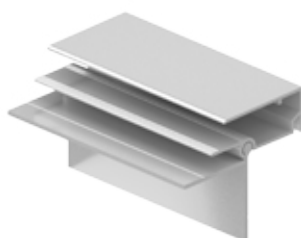
Heavy duty
upper pivot



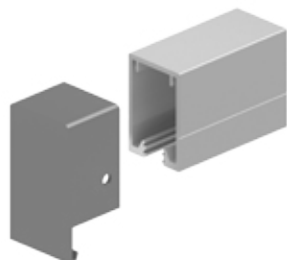
30 mm
connector



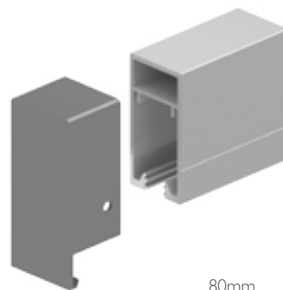
Streamline
connector



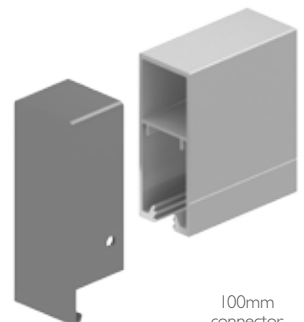
Lower pivot and
pivot end cap



60 mm
connector



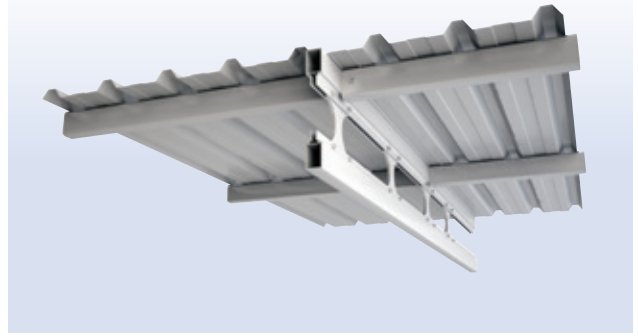
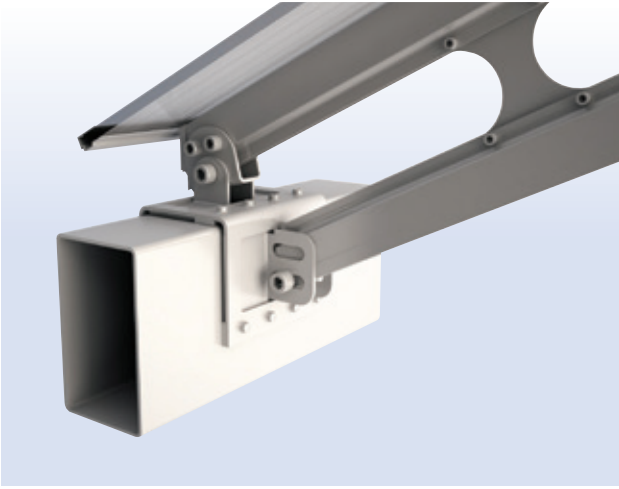
80 mm
connector



100 mm
connector

SPACETRUSSTM SYSTEM

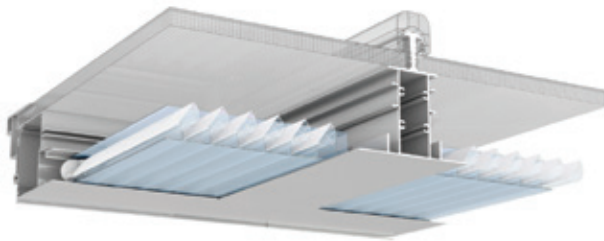
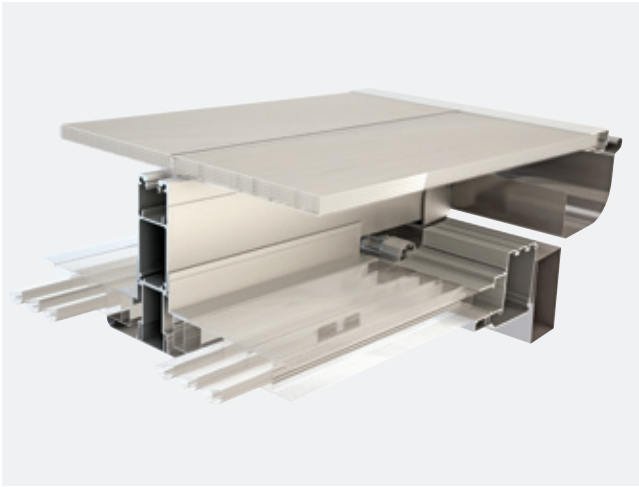
- Large free spans up to 45 metres
- Versatile, convenient pre-engineered solution
- Structurally efficient and affordable
- Suits various roof types



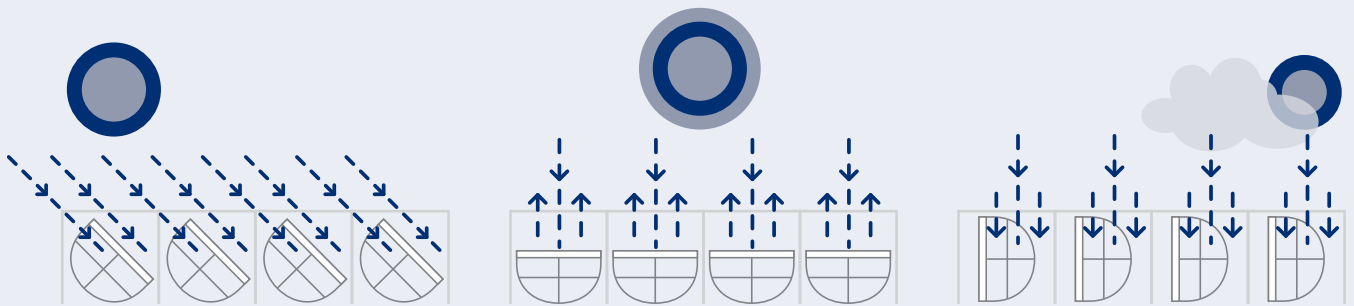
Various configurations available

CONTROLITE® SYSTEM

- Maximizes winter daylight; blocks summer heat
- A self-optimizing system for maximum comfort
- Reduces energy consumption



International version

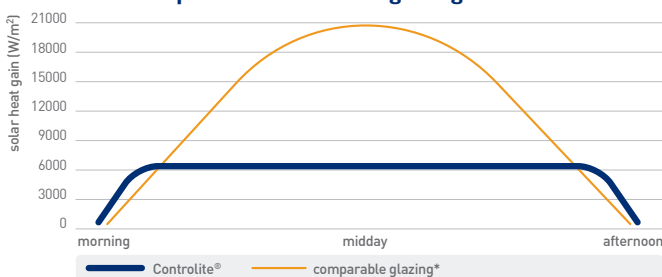


Early morning or late afternoon

Summer midday

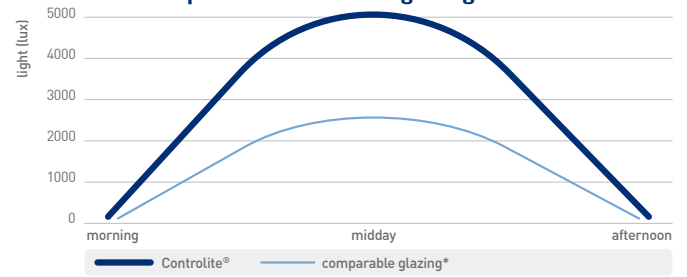
Cloudy days

Controlite® compared to traditional glazing — summer



Controlite® blocks 80% of solar heat gain (W/m2).

Controlite® compared to traditional glazing — winter

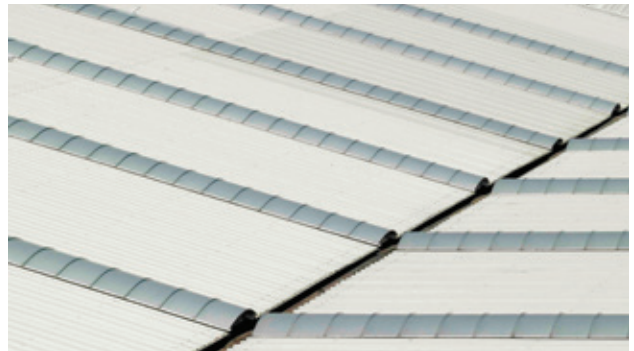
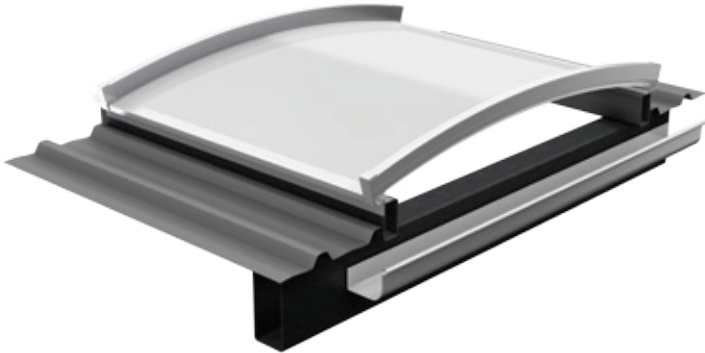


Controlite® increases daylight transmittance by 100%.

*Comparable glazing: 30% insulating, Low E-glass, or 25mm opal multiwall polycarbonate.

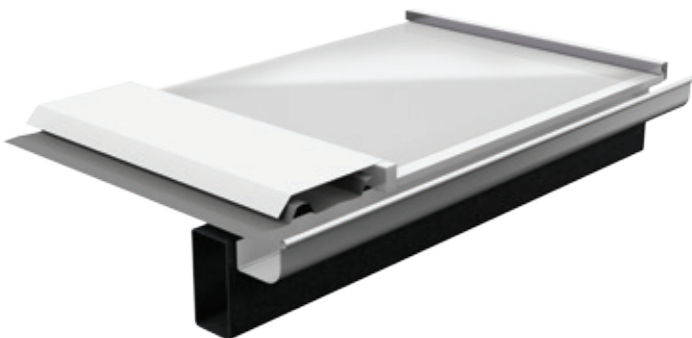
DANPAVAULT ROOFLIGHTS

- Self-supporting skylight
- Unlimited length
- Greater light transmission than flat rooflights
- High impact resistance and load capacity



INDUSTRIAL ROOFLIGHTS

- Excellent light diffusion and insulation
- 100% watertight
- Easy-to-install and adaptable to many roofs
- High impact resistance and load capacity



TRADITIONAL SYSTEM SPANS

CONNECTOR	THICKNESS	4MM	8MM	10MM	12MM	16MM
	PROFILE	COMPACT	HONEYCOMB	HONEYCOMB	MULTICELL	MULTICELL
	WIDTH	600mm	600mm*	600mm*	900mm*	1040mm*
POLYCARBONATE CONNECTOR	MID SPAN	900	900	1100	1100	1300
	END SPAN	700	700	800	800	900
30MM CONNECTOR	MID SPAN	1400	1400	1600	1600	1600
	END SPAN	1000	1000	1200	1200	1200
54MM CONNECTOR	MID SPAN	N/A	1600	1800	1800	1800
	END SPAN	N/A	1200	1400	1400	1400

OTHER SYSTEM SPANS

CONNECTOR / BAR	THICKNESS	4MM	8MM	10MM	12MM	16MM
	PROFILE	COMPACT	HONEYCOMB	HONEYCOMB	MULTICELL	MULTICELL
	WIDTH	600mm	600mm*	600mm*	900mm*	1040mm*
SOLARSPACE	DPACSL	N/A	2500	2500	2300	2200
	DPAC60	N/A	4000	4000	3500	3300
	DPAC80	N/A	5200	5200	4500	4300
	DPAC100	N/A	6100	6100	5300	5100
SEAMLESS	DPAC40	N/A	N/A	2500	2450	2400
	DPAC50	N/A	N/A	3600	3200	3100
	DPAC60	N/A	N/A	4200	3700	3600
	DPAC70	N/A	N/A	4700	4100	4000
	DPAC80	N/A	N/A	5200	4600	4450
	DPAC100	N/A	N/A	6300	5500	5300
	DPAC150	N/A	N/A	9000	7600	7300
FREESPAN	DPAB50	N/A	N/A	N/A	N/A	4000
	DPAB60	4800	4800	4800	N/A	N/A
	DPAB70	5500	5500	5500	N/A	N/A
	DPAB80	6000**	6000**	6000**	5300	N/A
	DPAB100	7000**	7000**	7000**	6500**	6000
	DPAB150	9600**	9600**	9600**	8500**	8000

*Installing a fastener or bar between the panels adds 2mm to the installed module.

** This bar is not ideal for this panel. Consult Danpal® for further advice before proceeding.

Design load 1 kPa (ultimate) 0.7 kPa (serviceable). Deflection criteria span / 50. Consult Danpal® for any other situations.

SPECIFICATIONS

	COMPACT	HONEYCOMB		MULTICELL			
	4mm	8mm	10mm	12mm	16mm	22mm	3DLite
WIDTH (mm)	592	600	600	900	1040	900	600
RAFTER SPACING (mm)	600	602	602	902	1042	902	602
WEIGHT (g/m ²)	5000	1830	2666	2840	3666	3796	
MIN COLD BENDING RADIUS (mm)	2900	2200	2500	2750	3000	3500	5000
STANDARD INTERNATIONAL U-VALUE (W/m ² *K)	5.36	2.46	2.11	1.84	1.53	1.5	1.75
NFRC U-VALUE* (W/m ² *K)	UPON REQUEST	3.3	3.0	2.9	2.5	UPON REQUEST	UPON REQUEST

*The NFRC U-value includes standard aluminium framing as per NFRC requirements and must be used when performing calculations for BCA Section J requirements. Thermally broken frames for lower U values are available. Contact Danpal® for more information.

COLOUR YOUR ATMOSPHERE WITH THE DANPAL® PALETTE



ABOUT THE COMPANY

Innovative light architecture systems for building envelopes

Danpal® are creators of exceptional light-transmitting architectural systems for building envelopes, providing optimal solar and thermal comfort.

For over 30 years, our innovative systems have helped architects to transform light (both natural and artificial) into a powerful and versatile tool, for architectural creations that are internally and externally radiant.

An industry visionary, Danpal® are originators of the Danpalon® translucent panel standing seam system - a light architecture solution used around the world in commercial, education, transport, health, sports and high-tech projects.

Today, the company offers complete systems - providing total solutions for the building envelope. Danpal® designs, manufactures and distributes an unmatched range of daylighting systems for all types of building requirements - from facades, cladding, roofs, skylights, shading, to interior and outdoor applications.

Danpal® systems are built around innovative technologies, deep architectural know-how and the ever evolving needs of our clients. Operating in five continents, Danpal® inspires architectural creativity with its rainbow of light architecture solutions.

Danpal® Roofing System are an integral part of Danpal's range of systems - giving you a complete solution



FACADES



CLADDING



ROOFING



SKYLIGHTS



SHADING



INTERIOR