

DANPAL® EVERBRIGHT SYSTEM



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EVERBRIGHT SYSTEM

**THE UNIQUE SELF-SUPPORTING
SYSTEM WITH NO EXPOSED
ALUMINUM FRAMING.**



EVERBRIGHT SYSTEM

LARGE SPANNING ROOF AND WALL APPLICATIONS.



EVERBRIGHT SYSTEM

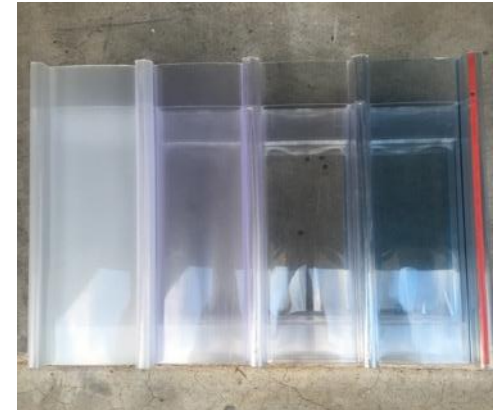
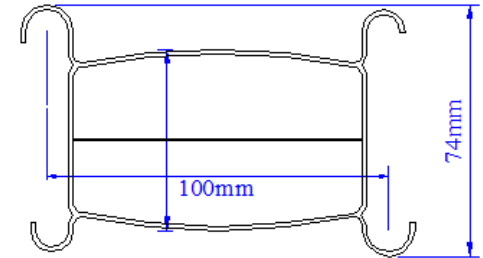
CLEAN AND OPEN DOMESTIC PERGOLAS.



EVERBRIGHT SYSTEM

SYSTEM DESCRIPTION

- Danpal Everbright is an extruded panel “TUBE” which can be assembled together to form panels of varying widths of any size.
- This is only determined by the length of the panel and the configuration of the locking bars (PC or Alum) which has an effect on the overall weight of the assembled panel.
- Generally it is made up to a size that is easily handled by the assembly staff and the on-site installers.



EVERBRIGHT SYSTEM

STRUCTURE AND FEATURES

- Extruded as a single 100mm wide x 74mm thick sectional tube.
- Assembled in the factory as a 300/400/600mm and up to 1000mm wide configuration.
- Available in bespoke lengths from 1.0M – 12.0M.
- Offers a maximum free span of up to 4.38M for flat panels and 12M for curved.
- Available colors: Clear, Ice, Opal and Blue.



| EVERBRIGHT SYSTEM

MAJOR ADVANTAGES

- Modern and Unique appearance provides a uniform look with NO visible joins
- A unique self-supporting system with no exposed Aluminum framing
- Large Spans of 4.38m Flat or 12m Curved with minimal framing
- STRONGEST PC material in the world (74mm thick profile)
- Superior Impact and Intruder resistance
- Excellent thermal and acoustic properties (24dba)
- Rapid Installation which provides savings in construction time on site

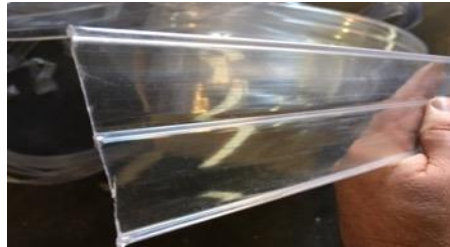
EVERBRIGHT SYSTEM

MAJOR ADVANTAGES

Polycarbonate locking bars



Aluminium locking bars



End caps



Black profile foam filler (bottom)



White profile foam filler (top)



S.Steel Self drill TEK screw



Aluminium clamp plate

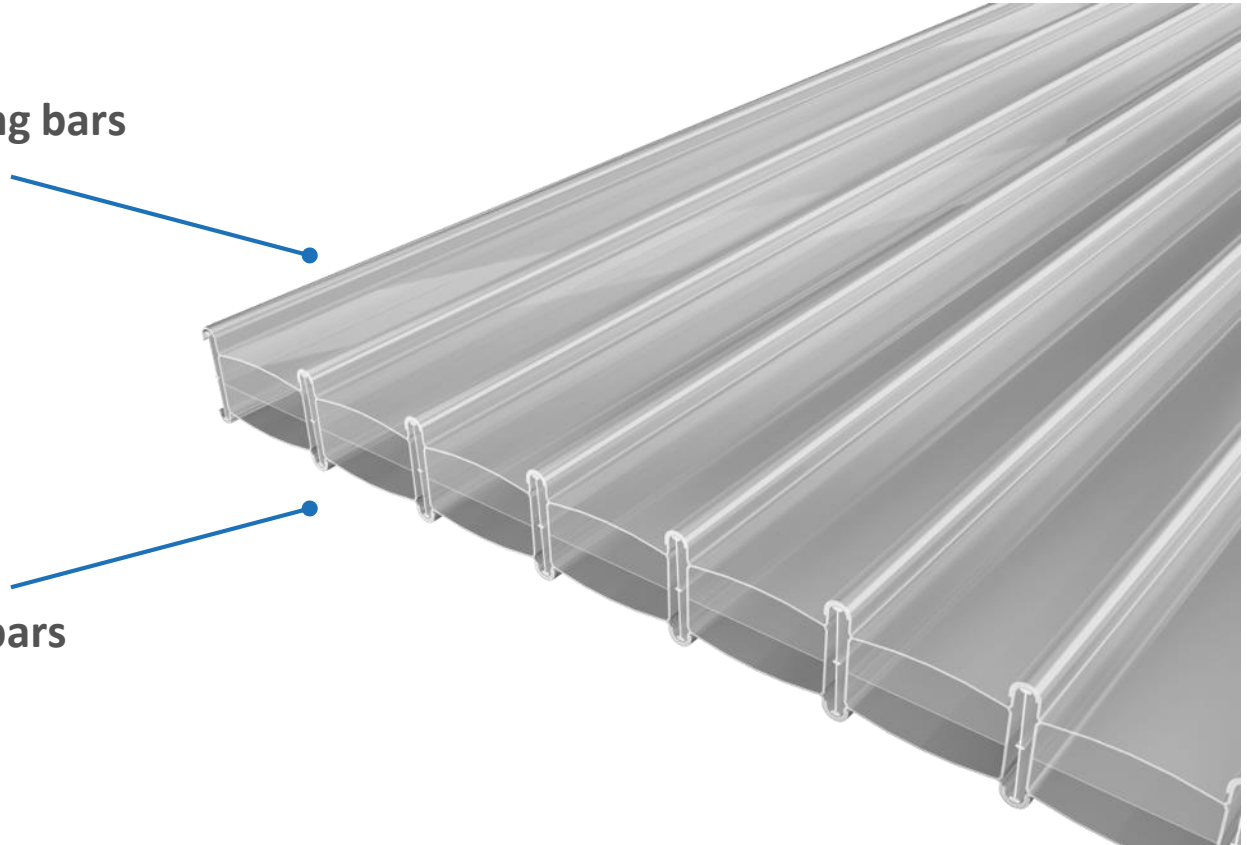


EVERBRIGHT SYSTEM

EASY INSTALLATION

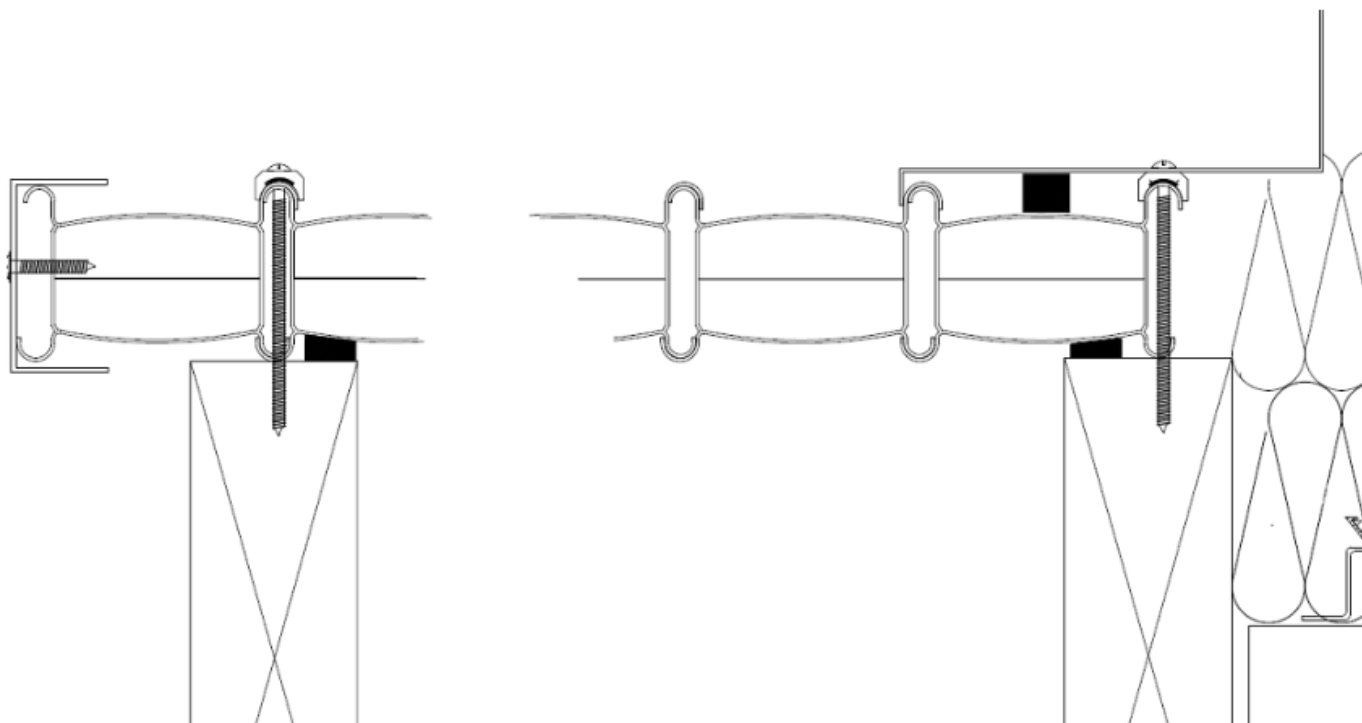
Polycarbonate locking bars

Aluminium Locking bars



EVERBRIGHT SYSTEM

EASY INSTALLATION



EVERBRIGHT SYSTEM

TECHNICAL DATA

OPTICAL AND SOLAR PROPERTIES					
	LT%	ST%		SR%	SHGC
Clear	73*	51		40	0.53
Blue	59*	49		32	0.53
Opal	65*	36		44	0.4
Ice White	55*	32		20	0.42

* 10% less when using 1 cell of Nanogel. 20% less when using 2 cells of Nanogel.

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TECHNICAL DATA

MAXIMUM SPANS		
Load (Kg/m ²)	Maximum span for downward load (m)	Maximum span for uplift load (m)
50	4.75	5.49
75	4.38	4.81
100	4.11	4.41
125	3.91	4.14
150	3.76	3.94
175	3.63	3.3
200	3.51	3.51
250	3.33	3.33
300	3.19	3.19

Based on 5 aluminum locking bars in a 6 tube panel.
For other combinations contact our technical department.

EVERBRIGHT SYSTEM

TECHNICAL DATA

Spans table is based on a maximum loading criteria of 75 kg/m²

<u>Flat panels</u>		<u>Curved panels</u>				
Lock spec	Max free span	Lock spec	Free span 20 deg angle	Free span 25 deg angle	Free span 30 deg angle	Free span 35 deg angle
1	2.61M					
2.1	3.18M	1	6.05M	6.43M	6.72M	6.93M
2.2	3.62M	2.1	8.00M	8.50M	8.88M	9.16M
2.5	4.38M	2.2	9.49M	10.08M	10.53M	10.86M
		2.5	11.36M	12.07M	12.24M	12.00M

LS1 = all polycarbonate locking bars in a 6 tube panel

LS2.1 = 1 aluminium locking bar in a 6 tube panel

LS2.2 = 2 aluminium locking bars in a 6 tube panel

LS2.5 = 5 aluminium locking bars in a 6 tube panel

EVERBRIGHT SYSTEM

TECHNICAL DATA

	Standard	with Polycool inserts
U-value (W/m ² °K)	1.85	0.95

- Is available by adding NANOGEL inside the cavity of the panel.
- Can be added into ONE cavity or BOTH depending on the extra thermal insulation required.



	Standard	with Polycool inserts	1 cell of Nanogel	2 cells of Nanogel
U-value (W/m ² °K)	1.85	0.95	0.32	0.18

EVERBRIGHT SYSTEM

IMPROVING LIGHT DIFFUSION OR IMPROVING SHGC

- Can be done by adding a number of different “ FOIL STIPS”.
- Foil strips come in a large range of colors.
- Changes the aesthetic appearance of Everbright system.
- Provides a wider choice of alternatives for the architect/designer.



MARKET SEGMENTS



Sport centers



Industry



Education



Office



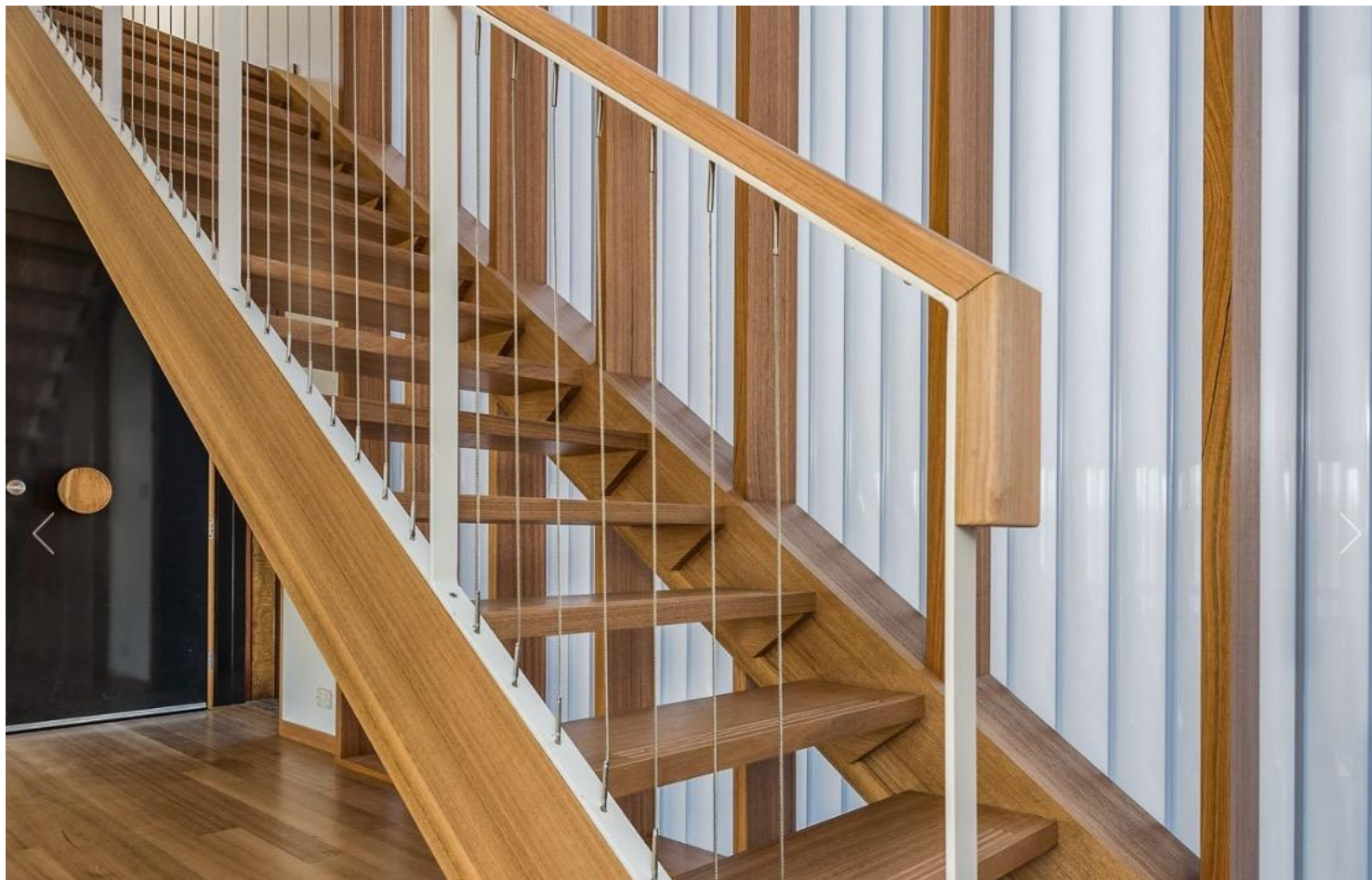
Commercial



Transportation

Designed to meet various types of buildings and application designs.

EVERBRIGHT FAÇADE



EVERBRIGHT FAÇADE



MARKETING TOOLS



Brochures



Presentation



Movie



Technical site



Mockup



Global projects
references

Thank you