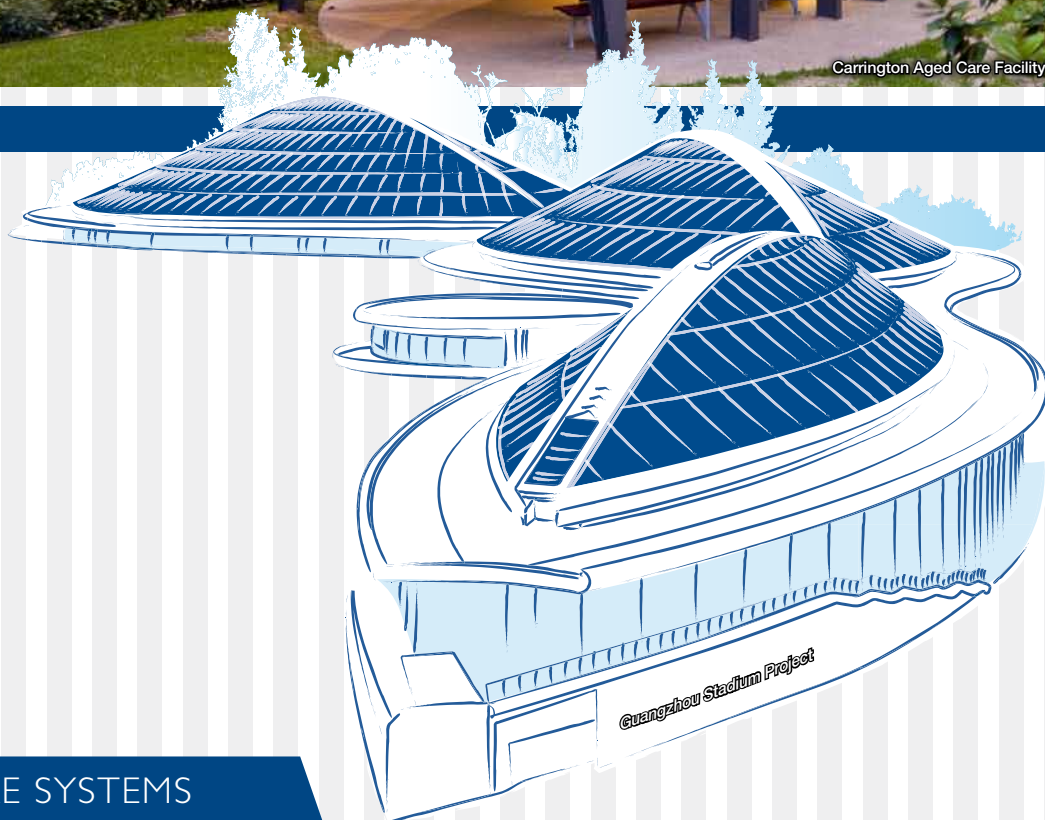




Carrington Aged Care Facility | Camden | Jackson Teece Architects



Guangzhou Stadium Project

LOUVRE SYSTEMS





Piscine La Chapelle | France | BVN Architects



Sydney Ports | Port Botany | Jackson Teece Architects

LOUVRE SYSTEMS

Danpalon Multicell provides exceptional quality of light, a rich non-industrial visual appeal and delivers superior durability, thermal insulation and 99.9% UV protection. Danpalon panels with this unique and innovative extrusion technology provide more cells than traditional polycarbonate sheets. The smaller spans between the rib supports give you the best combination of translucency and strength.

SUPERIOR LIGHT AND VISUAL APPEARANCE

The Multicell structure transmits an even diffusion of natural light, producing a rich look similar to glass. Specifically designed for architectural daylight applications, the tight spacing between the ribs produces a superior quality of light and an aesthetically appealing look, offering a refined alternative to the 'green-house look' associated with alternative sheets.



Lake Ainsworth Sport and Recreation Centre | Ballina | Allen Jack + Cottier



Community Services Offices | Charlestown | Jackson Teece Architects

EXTENDED UV PROTECTION

Danpalon Multicell also offers a co-extruded UV protection layer that results in longer panel life. This technology developed by Danpalon means the UV protection is actually part of the sheet so there is no chance of the UV barrier delaminating.

HIGH THERMAL INSULATION

The Danpalon cell structure gives the sheet significantly less thermal conductivity. This results in improved insulation and unparalleled 'U' and 'R' Values. These improved thermal values offer significant energy efficiencies.

HIGH IMPACT RESISTANCE & STRENGTH

Due to the tightness between the vertical supports, Multicell offers the highest resistance to impact and hail damage. The high concentration of cells provides improved mechanical properties and rigidity. This rigidity means better spans giving a more economical solution.

LEGEND

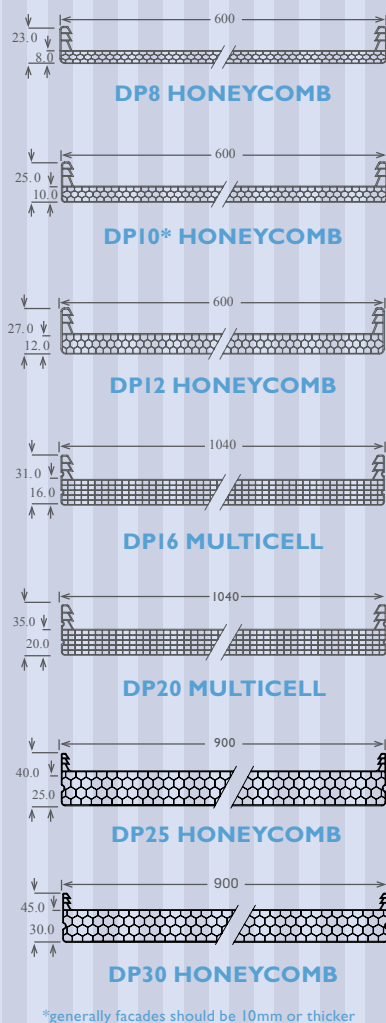
LT % of visible light transmission (400 - 700nm)

ST % of total solar radiation transmission (300 – 2800nm)

SR % of total solar reflection (300-2800nm)

SHGC Solar Heat Gain Coefficient.
Total solar energy transmitted through the panel = %ST+0.2x(%st+%sr). Tests were performed in accordance with ASHRAE 74-1988 procedures. Figures are indicative and may change within manufacturers production tolerances.



SHEET SIZES



TEST COMPLIANCES

AS1170.1 - 2002	Balustrade Loadings
AS1170.2 - 1989	Wind Loads
AS1530.3 - 2009	Early Fire Hazard Test
AS1562.3 - 2006	Impact Test (includes 10 year old panels)
AS3837 - 1998	Heat and Smoke Release Rates (Fire Group 3)
AS3959 - 1998	Buildings in Bushfire Prone Areas
AS4040.1 - 1992	Resistance to Concentrated Loads
AS4040.2 - 1992	Resistance to Wind (non-cyclonic)
AS4040.3 - 1992	Resistance to Wind (cyclonic)
AS4040.4 - 2006	Resistance to Impact
BCA 2007 B1.2	Cyclonic Regions
BRANZ Appraisal 2006	Certificate 527
ROHS Compliant	Restriction of Hazardous Substance Lic 24727

OPTICAL AND SOLAR PROPERTIES

		HONEYCOMB			MULTICELL		HONEYCOMB	
		8mm	10mm	12mm	16mm	20mm	25mm	30mm
	REFLECTIVE GREY	LT%	20	20	20	20	20	20
		ST%	18	18	18	18	17	17
		SR%	33	33	33	33	27	27
		SHGC	0.28	0.28	0.28	0.28	0.28	0.28
	REFLECTIVE ICE	LT%	24	24	24	24	24	24
		ST%	34	34	34	34	34	34
		SR%	48	48	48	48	48	48
		SHGC	0.38	0.38	0.38	0.38	0.38	0.38
	OPAL	LT%	35	35	35	22	32	32
		ST%	38	38	38	28	38	38
		SR%	40	40	40	51	40	40
		SHGC	0.42	0.42	0.42	0.32	0.42	0.42
	BRONZE	LT%	25	25	25	35	30	30
		ST%	26	26	26	35	29	29
		SR%	18	18	18	30	19	19
		SHGC	0.37	0.37	0.37	0.42	0.39	0.39
	GREY	LT%	30	30	30	31	24	24
		ST%	35	35	35	38	31	31
		SR%	22	22	22	30	21	21
		SHGC	0.44	0.44	0.44	0.44	0.41	0.41
	ICE	LT%	60	60	60	51	68	68
		ST%	54	54	54	50	58	58
		SR%	32	32	32	38	34	34
		SHGC	0.57	0.57	0.57	0.52	0.60	0.60
	BLUE	LT%	50	50	50	49	50	50
		ST%	57	57	57	51	53	53
		SR%	27	27	27	38	32	32
		SHGC	0.60	0.60	0.60	0.53	0.56	0.56
	GREEN	LT%	60	60	60	44	60	60
		ST%	52	52	50	42	49	49
		SR%	32	32	32	33	30	30
		SHGC	0.55	0.55	0.55	0.47	0.53	0.53
	CLEAR	LT%	71	71	71	63	68	68
		ST%	60	60	60	51	58	58
		SR%	36	36	36	40	34	34
		SHGC	0.61	0.61	0.61	0.53	0.60	0.60
	GOLD	LT%	25	25	25	28		
		ST%	23	23	23	27		
		SR%	31	31	31	28		
		SHGC	0.32	0.32	0.32	0.36		
	ORANGE	LT%	40	40	40	36		
		ST%	45	45	45	39		
		SR%	15	15	15	24		
		SHGC	0.53	0.53	0.53	0.46		
	PURPLE	LT%	44	44	44	32		
		ST%	55	55	55	43		
		SR%	20	20	20	27		
		SHGC	0.60	0.60	0.60	0.49		
	RED	LT%	20	20	20	18		
		ST%	45	45	45	39		
		SR%	22	22	22	24		
		SHGC	0.51	0.51	0.51	0.46		
	YELLOW	LT%	58	58	58	50		
		ST%	52	52	52	45		
		SR%	26	26	26	26		
		SHGC	0.56	0.56	0.56	0.50		
	DARK OPAL	LT%	11	11	11	11		
		ST%	18	18	18	18		
		SR%	53	53	53	53		
		SHGC	0.24	0.24	0.24	0.24		

SPECIFICATION

	HONEYCOMB			MULTICELL		HONEYCOMB	
	8mm	10mm	12mm	16mm	20mm	25mm	30mm
WIDTH (mm)	600	600	600	1040	1040	900	900
RAFTER SPACING (mm)	602	602	602	1042	1042	902	902
WEIGHT (g/m²)	1830	2666	2840	3666	4150	4150	4333
MIN COLD BENDING RADIUS (mm)	2200	2500	2600	2900	3400	3900	4200
U VALUE (w/m²C°)	2.46	2.11	1.84	1.53	1.53	1.57	1.51

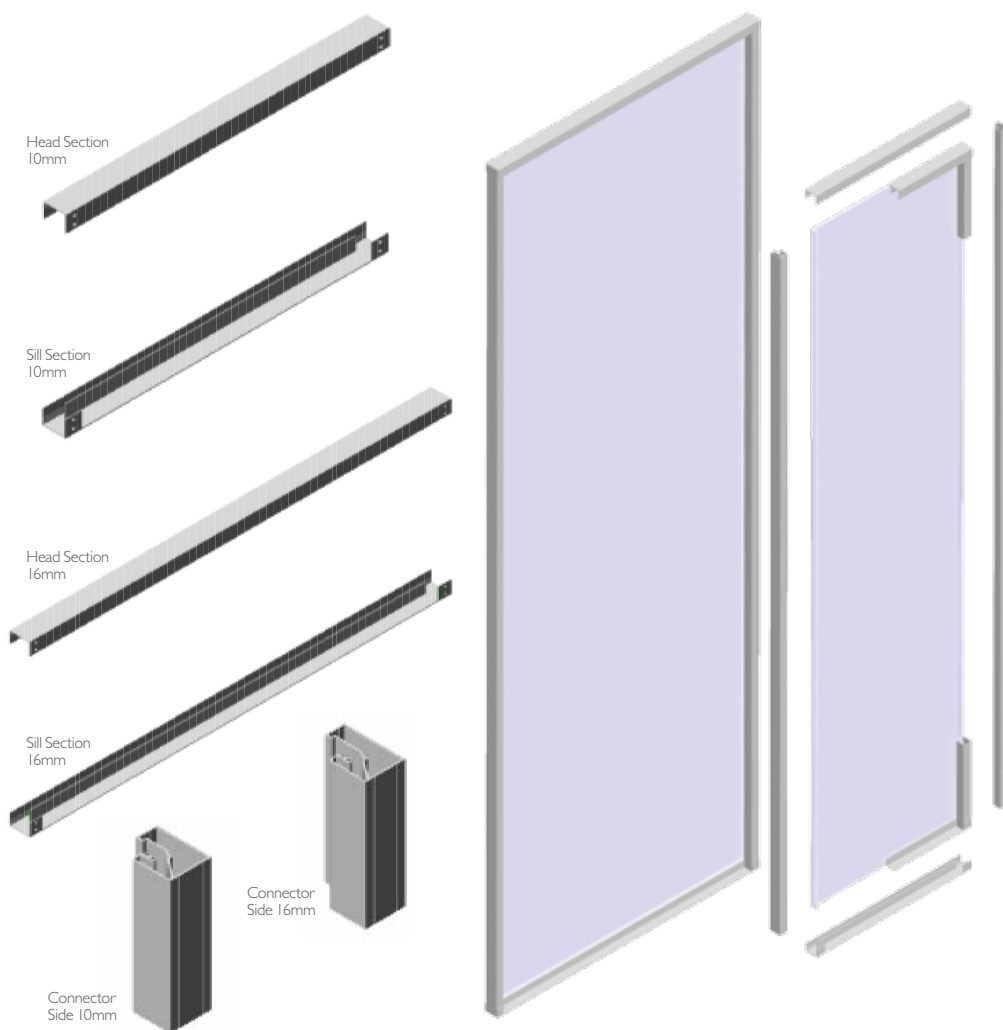


Piscine La Chapelle | France



Carrington Aged Care Facility | Camden | Jackson Teece Architects

DANPALON ACCESSORIES



FORMAT AND SPANS

Sheet	Width	Overall Width	Maximum Height
Danpalon 10mm	600mm	632mm	2400mm
Danpalon 16mm	600mm	632mm	2800mm
Danpalon 16mm	1040mm	1072mm	2400mm

Installation: Clip on the appropriate Side Connectors to the panel and then install the Head Section to the top of the panel with two 5mm rivets or two 22mm wafer screws on each side. Then repeat this process and install the Sill Section to the bottom.

These spans are based on a design wind speed of 41m/s which equates to a 1kPa wind load.



Sydney Ports | Port Botany | Jackson Teece Architects



Jiading Junior Middle School | Shanghai

Danpal Australia Pty Ltd

NSW 61-2-9475 2000
QLD 61-7-3290 5222
VIC 61-3-9459 4806
TAS 61-3-6344 7060

SA 61-8-8337 6599
WA 61-8-9279 1064
NZ 64-9-412 7470

Your Danpalon Specialist is:

www.danpalon.com.au



Manufacturer's Warranty: Danpalon polycarbonate sheets carry a 15 year limited manufacturers warranty, not to lose more than 8% of light transmission for the first 10 years and thereafter no more than 1% per year when measured in accordance with ASTM-E-1175. Danpalon polycarbonate sheets are warranted for 15 years from the purchase date, not to break as a result of the impact of hail measuring up to 20mm in diameter. These warranties shall only apply if the sheets are installed, used and maintained in accordance with Danpalon recommendations and specifications. Full Warranty details available on request.

NOTE: Regulations differ from area to area, seek approval from your local council prior to building. Information in this brochure is subject to change without notice.

ISO9001 - 2000 Quality Management Standard ~ ISO14001 - 2004 Environmental Management Systems

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