



Next DC | North Ryde | Greenbox Architecture



MODULAR GLAZING
SOLUTION FOR FACADES

SEAMLESS™ SYSTEM





Bar Code Building | Greystanes | La Coste and Stevenson Architects



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Burnie Makers Workshop | Burnie | Terroir Architects

SEAMLESS™ FACADES

Danpalon Seamless™ 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



© Brett Boardman Photography

Hobart Airport | Hobart | Hassell 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

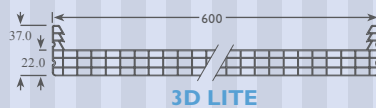
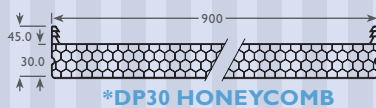
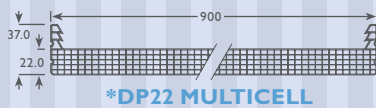
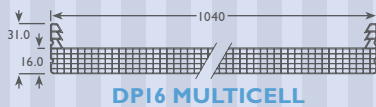
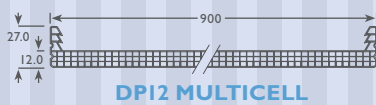
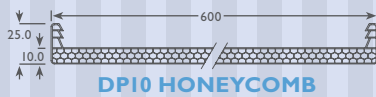
LT % of visible light transmission (400 - 700nm)

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



*can be produced to order. Not stocked in Australia.

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)
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
BCA2007 B1.2	Cyclonic Regions
BRANZ Appraisal 2006	Certificate 527
ROHS Compliant	Restriction of Hazardous Substance Lic24727

OPTICAL AND SOLAR PROPERTIES

		DPI0	DPI2	DPI6	*DP22	*DP30mm
Reflective Colours						
	REFLECTIVE GREY	LT%	20	20	20	20
		ST%	18	18	18	18
		SR%	33	33	33	33
		SHGC	0.28	0.28	0.28	0.28
	REFLECTIVE ICE	LT%	24	24		
		ST%	34	34		
		SR%	48	48		
		SHGC	0.38	0.38		
Standard Colours						
	BLUE	LT%	50	50	49	49
		ST%	57	57	51	51
		SR%	27	27	38	38
		SHGC	0.60	0.60	0.53	0.53
	BRONZE	LT%	25	25	35	35
		ST%	26	26	35	35
		SR%	18	18	30	30
		SHGC	0.37	0.37	0.42	0.42
	CLEAR	LT%	71	71	63	63
		ST%	60	60	51	51
		SR%	36	36	40	40
		SHGC	0.61	0.61	0.53	0.53
	GREEN	LT%	60	60	44	44
		ST%	52	50	42	42
		SR%	32	32	33	33
		SHGC	0.55	0.55	0.47	0.47
	GREY	LT%	30	30	31	31
		ST%	35	35	38	38
		SR%	22	22	30	30
		SHGC	0.44	0.44	0.44	0.44
	ICE	LT%	60	60	51	51
		ST%	54	54	50	50
		SR%	32	32	38	38
		SHGC	0.57	0.57	0.52	0.52
	OPAL	LT%	35	35	22	22
		ST%	38	38	28	28
		SR%	40	40	51	51
		SHGC	0.42	0.42	0.32	0.32
Premium Colours						
	DARK OPAL	LT%	11	11		
		ST%	18	18		
		SR%	53	53		
		SHGC	0.24	0.24		
	GOLD	LT%	25	25	28	28
		ST%	23	23	27	27
		SR%	31	31	28	28
		SHGC	0.32	0.32	0.36	0.36
	ORANGE	LT%	40	40	36	36
		ST%	45	45	39	39
		SR%	15	15	24	24
		SHGC	0.53	0.53	0.46	0.46
	PURPLE	LT%	44	44	32	32
		ST%	55	55	43	43
		SR%	20	20	27	27
		SHGC	0.60	0.60	0.49	0.49
	RED	LT%	20	20	18	18
		ST%	45	45	39	39
		SR%	22	22	24	24
		SHGC	0.51	0.51	0.46	0.46
	YELLOW	LT%	58	58	50	50
		ST%	52	52	45	45
		SR%	26	26	26	26
		SHGC	0.56	0.56	0.50	0.50

SPECIFICATIONS

	DPI0	DPI2	DPI6	DP22	DP30	3DLite
WIDTH (mm)	600	900	1040	900	900	600
RAFTER SPACING (mm)	601	902	1042	902	902	601
MIN BENDING RADIUS (mm)	2500	2600	2900	3500	4200	5000
U VALUE (w/m²C°)	2.11	1.84	1.53	1.50	1.40	1.75
R VALUE (w/m²C°)	0.47	0.54	0.65	0.67	0.71	0.57
WEIGHT (g/m²)	2666	2840	3666	3800	4444	



SEW Eurodrive | Perth | Hames Sharley Architects



SEAMLESS ACCESSORIES



Connector
40mm x 40mm



Connector
50mm x 40mm



Connector
60mm x 40mm



Connector
70mm x 40mm



Connector
80mm x 40mm



Connector
100mm x 40mm



Connector
54mm x 32mm



Connector H
70mm x 32mm



Angle Bracket
50mm x 50mm x 65mm



Angle Bracket
50mm x 50mm x 65mm



Connector
150mm x 40mm



Girt Bracket
54mm x 32mm



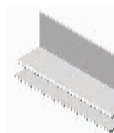
Girt Bracket
60/70mm x 40mm



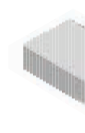
Girt Bracket
80/100mm x 40mm



Connector End Cap
40mm to 150mm



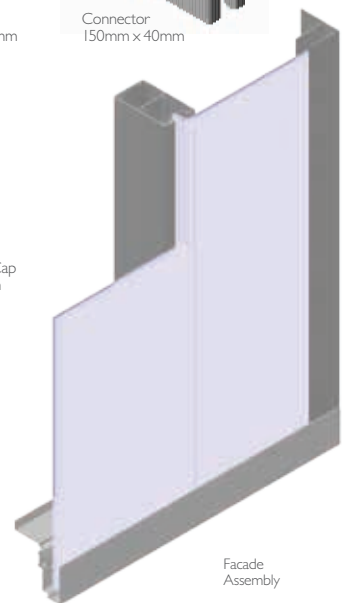
F Section
8mm to 30mm



End Cap
8mm to 30mm



Patented
Sill Assembly



Facade
Assembly

FORMAT AND SPANS

Maximum spans for Danpalon connectors in vertical configurations for 1 kPa ultimate wind pressure. Deflection criteria 1/75.

CONNECTOR	DPAC40			DPAC50			DPAC60			DPAC70			DPAC80			DPAC100			DPAC150		
Spacing	600	900	1040	600	900	1040	600	900	1040	600	900	1040	600	900	1040	600	900	1040	600	900	1040
Span	2700	2450	2400	3850	3650	3500	4500	4400	4200	5500	4900	4600	5500	5300	5100	6900	6400	6000	7800	6800	6600



Centro Shopping Centre | Port Pirie | Hames Sharley Architects



Carlton Football Club | Melbourne | Williams Ross Architects

Danpal Australia Pty Ltd

NSW	61-2-9475 2000	SA	61-8-8337 6599
QLD	61-7-3290 5222	WA	61-8-9279 1064
VIC	61-3-9459 4806	NZ	64-9-412 7470
TAS	61-3-6344 7060		



www.danpalon.com.au

