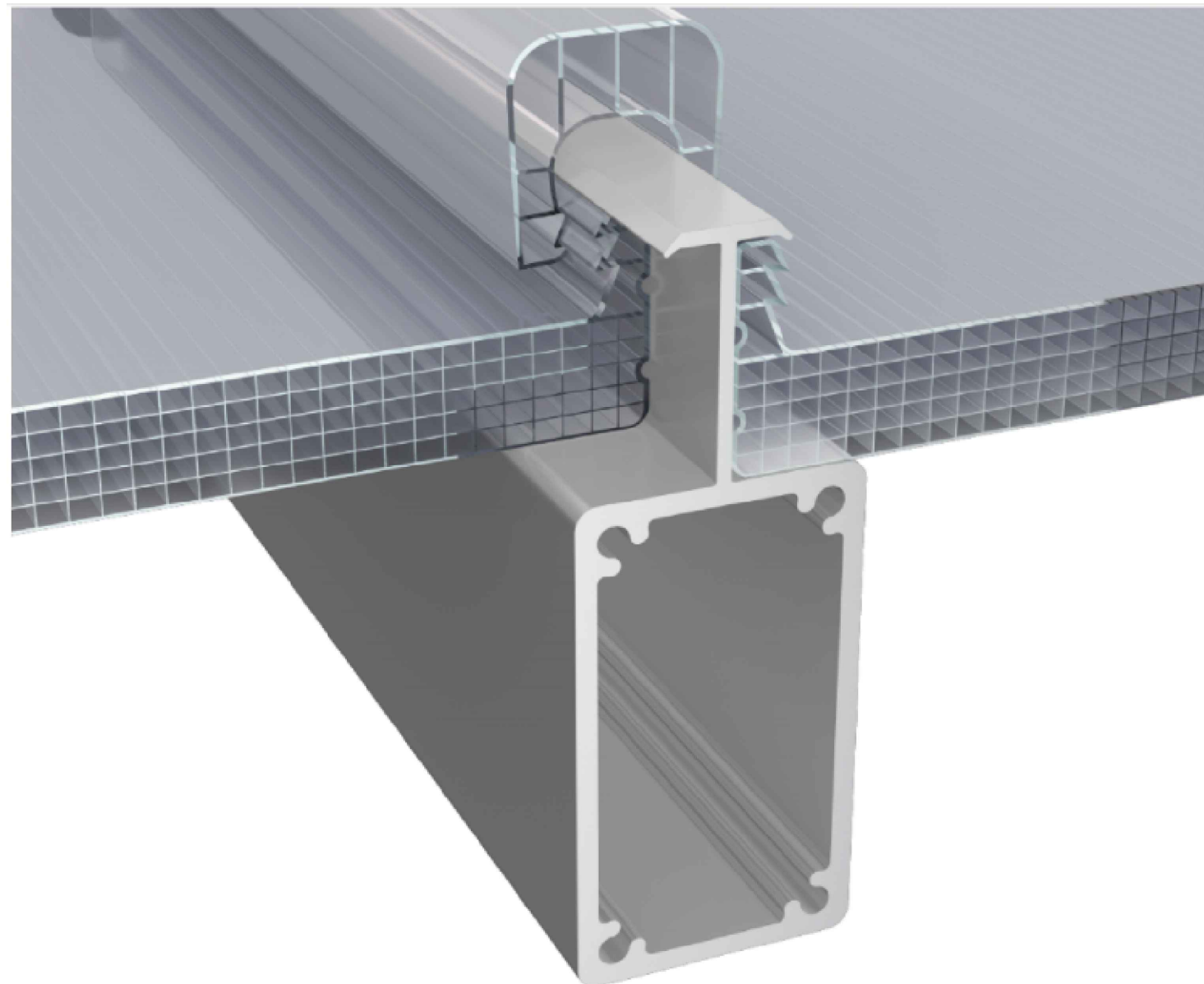


DANPAL FREESPAN ROOF SYSTEM

with DANPALON[®] Multicell Panels



GENERAL NOTES

DRAWING INFORMATION:

This drawing set is only applicable to the standard Danpal Freespan Roof System using Danpalon[®] Multicell panels and related accessories. © Copyright 2020 Danpal Australia Pty Ltd.

ROOF PITCH:

Danpal roof systems require a fall for water runoff and drainage. The sub-structure must be designed so as to incorporate a recommended minimum 5° pitch. (An absolute minimum pitch of 3° is required.)

Should a lower pitch be required, please consult Danpal Australia to discuss options.

FLASHINGS AND SEALANT:

Any flashings shown are indicative only. Suitable flashings should be designed and installed to ensure water runoff is adequately controlled and directed to suitable drainage provisions.

If required, only use neutral cure non-acetic silicone that is polycarbonate compatible.

Flashings and sealant are not supplied by Danpal.

SUB-STRUCTURE:

The sub-structure must be suitably designed by an engineer to withstand expected wind loads and should be designed to provide suitable support to the Danpal System, ensuring that Danpal maximum spans are not exceeded.

WARRANTY:

All Danpal materials are covered against defects by a 10 Year Commercial Limited Warranty. For further details or for project-specific warranty variations, please consult Danpal Australia.

DANPAL[®] STANDARD DETAILS ARE INTENDED ONLY AS A GUIDE FOR PROJECT-SPECIFIC ENGINEERING DOCUMENTATION BY AN APPROPRIATELY QUALIFIED ENGINEER.



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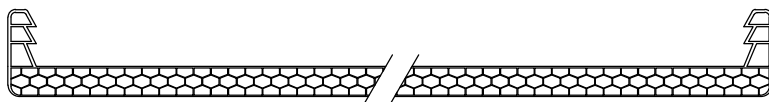
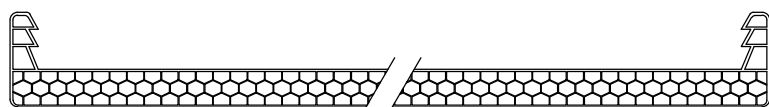
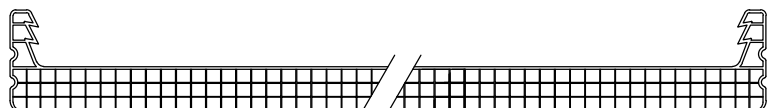
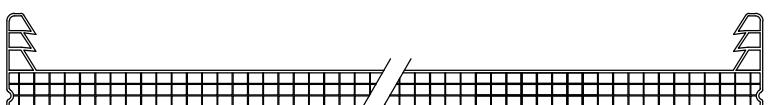

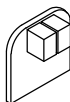
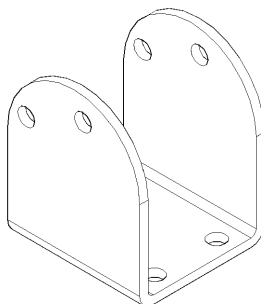
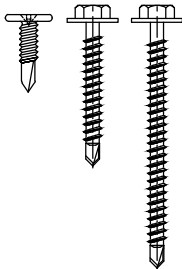
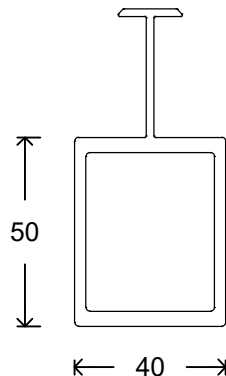
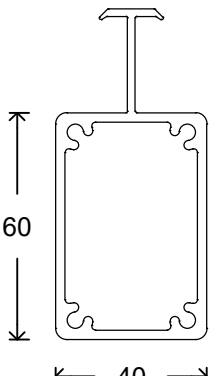
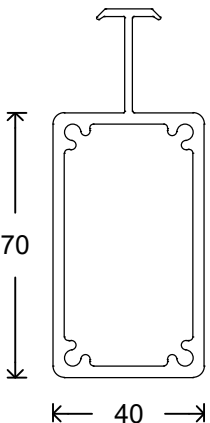
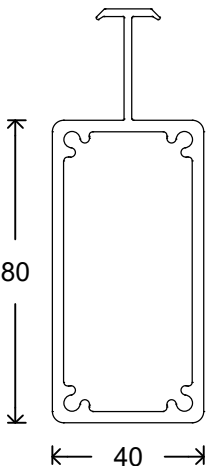
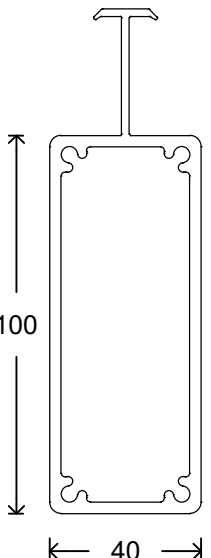
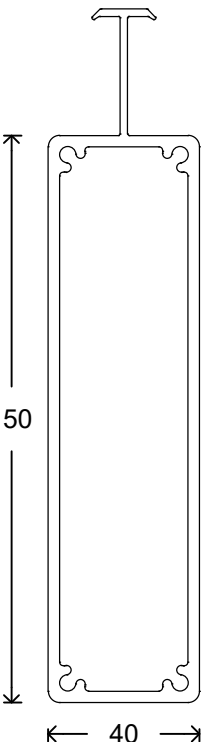
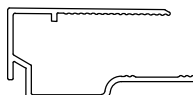
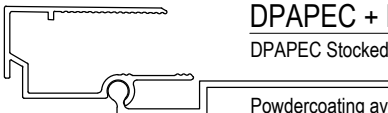
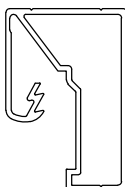
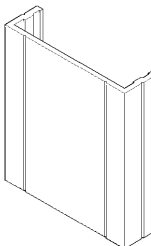
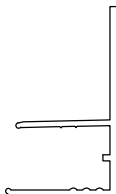
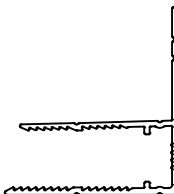

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TITLE PAGE AND GENERAL NOTES

Drawing Series:
DANPAL FREESPAN MULTICELL ROOF STANDARD DETAILS

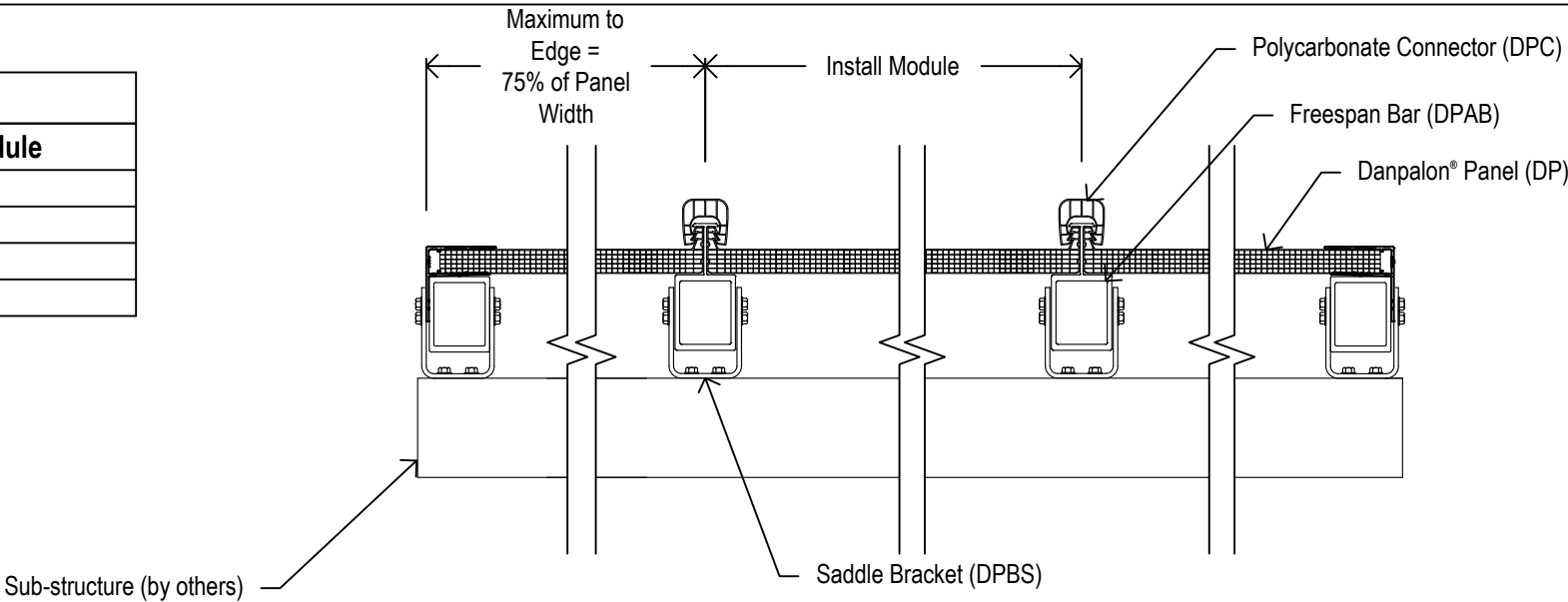
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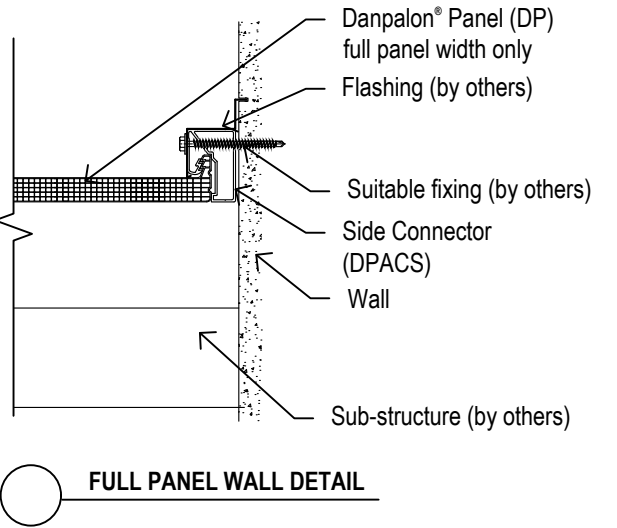
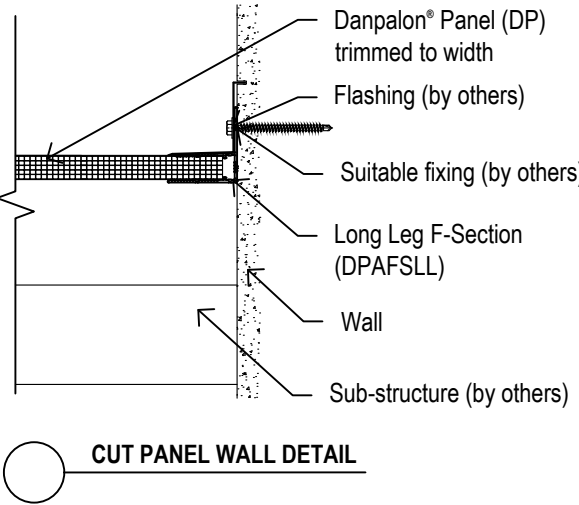
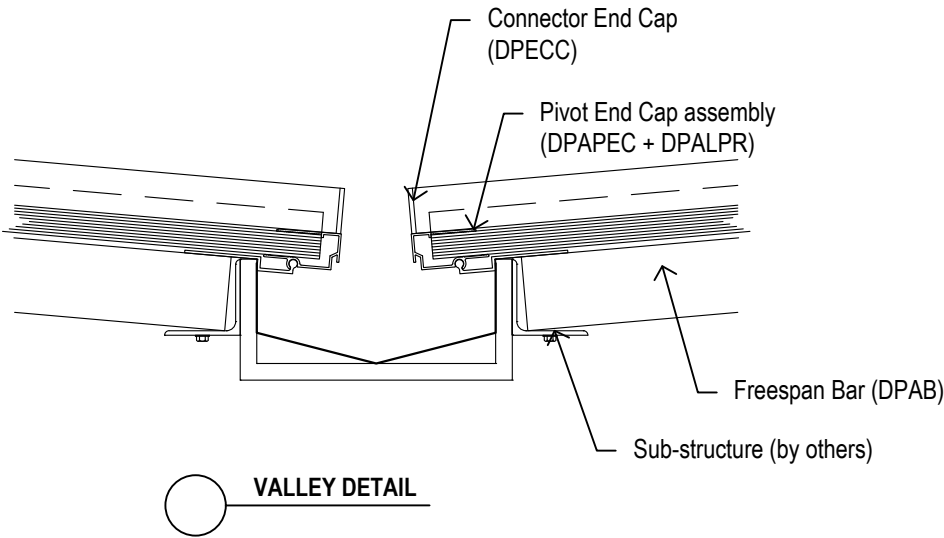
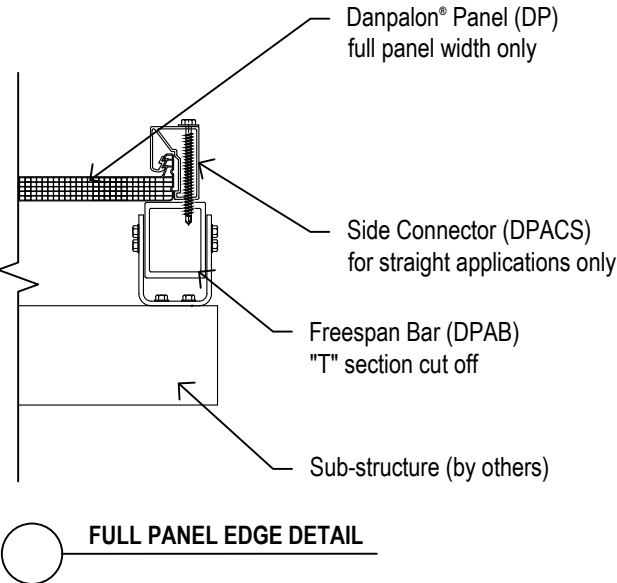
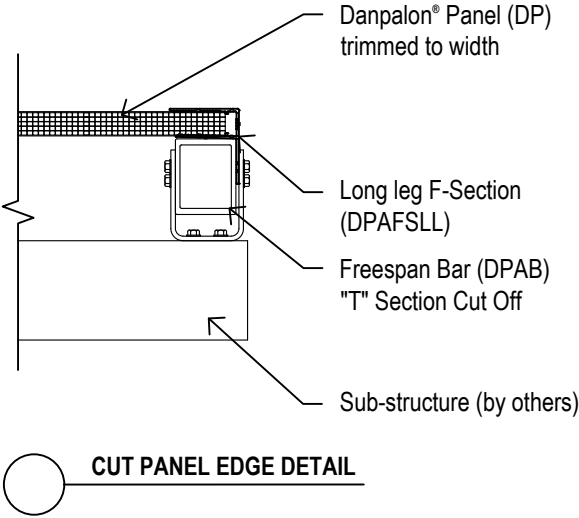
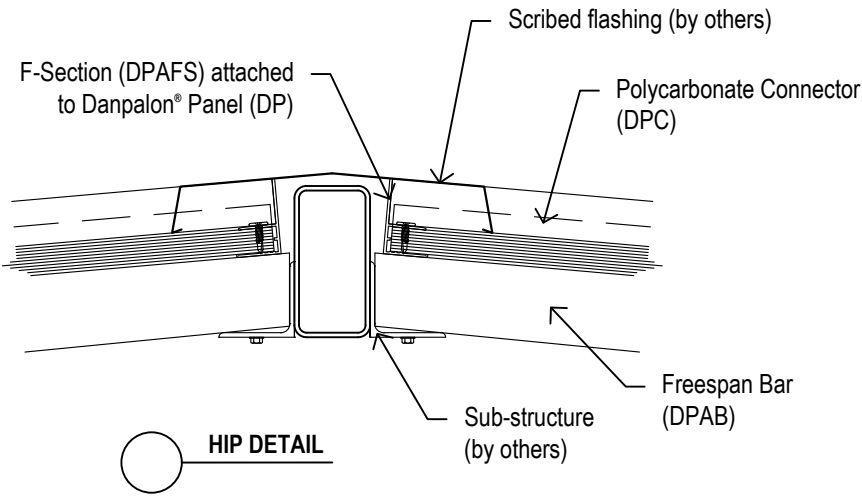
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Sheet:
1 of **5**

DANPALON® PANEL OPTIONS										
	<p><u>DP8 - 8mm Honeycomb</u> (600mm width) Weight: 1900gsm Stocked in Clear, Opal, Reflective Ice and Reflective Grey Other colours available to order</p>									
	<p><u>DP10 - 10mm Honeycomb</u> (600mm width) Weight: 2666gsm Stocked in all Reflective, Standard and Premium colours Other colours available to order</p>									
	<p><u>DP12 - 12mm Multicell</u> (900mm width) Weight: 2840gsm Stocked in Softlite Ice and Reflective Grey Other colours and 600mm width available to order</p>									
	<p><u>DP16 - 16mm Multicell</u> (600mm or 1040mm width) Weight: 3666gsm Stocked in Clear (1040mm only), Opal (1040mm only), Ice, Softlite Ice (1040mm only) and Reflective Grey Other colours and 900mm width available to order</p>									
CONNECTORS										
	<p><u>DPC - Polycarbonate Connector</u> Stocked in all available panel colours</p>									
<p><u>DPECC - Connector End Cap</u> Stocked in Clear Suitable for Polycarbonate Connectors only</p>										
BAR BRACKETS										
										
<p><u>DPBS - Saddle Bracket</u> Stocked In Galvanised Steel Finish Powdercoating available to order</p>										
FASTENERS										
										
<p><u>WS16/22/35 - Wafer Screw 16mm / 22mm / 35mm</u> <u>TEK25/45/65 - Hex Head Screw 25mm / 45mm / 65mm</u> Self-Drilling screws suitable for Metal and Timber (specify substrate when ordering) Zinc-Galv. and Stainless Steel options available to order</p>										
FREESPAN BAR OPTIONS										
<div><div><p><u>DPAB50</u> 50mm Bar Weight: 1.8kg/m</p></div></div>						<div><p><u>DPAB60</u> 60mm Bar Weight: 1.8kg/m</p></div>	<div><p><u>DPAB70</u> 70mm Bar Weight: 2.1kg/m</p></div>	<div><p><u>DPAB80</u> 80mm Bar Weight: 2.3kg/m</p></div>	<div><p><u>DPAB100</u> 100mm Bar Weight: 2.6kg/m</p></div>	<div><p><u>DPAB150</u> 150mm Bar Weight: 3.4kg/m</p></div>
<p>Notes: All bars are Aluminium 6351 T5 Alloy Stocked in Mill Finish Anodising and Powdercoating available to order</p>										
OTHER PROFILES AND ACCESSORIES										
		<p><u>DPAEC - Aluminium End Cap (Non-Pivot)</u> Stocked in Clear Anodised Finish Powdercoating available to order Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels (*16mm variant shown)</p>								
		<p><u>DPAPEC + DPALPR - Pivot End Cap + Lower Pivot</u> DPAPEC Stocked in Clear Anodised Finish, DPALPR Stocked in Mill Finish Powdercoating available to order Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels (*16mm variant shown)</p>								
		<p><u>DPACS30 - Aluminium Side Connector (30mm)</u> Stocked in Mill Finish Anodising and Powdercoating available to order Suitable for 8mm (using tape), 10mm, 12mm and 16mm Danpalon® Panel (*16mm variant shown)</p>								
		<p><u>DPACBEC - Aluminium Connector Bar End Cap</u> Stocked in Mill Finish Anodising and Powdercoating available to order Suitable for 50mm to 150mm Bars (DPAB50-150)</p>								
		<p><u>DPAFS - Aluminium F-Section</u> Stocked in Mill and Clear Anodised Finish Powdercoating available to order Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels (*16mm variant shown)</p>								
		<p><u>DPAFSL - Aluminium Long Leg F-Section</u> Stocked in Mill Finish Anodising and Powdercoating available to order Suitable for 16mm Danpalon® Panels</p>								
			<p>Sheet Title: COMPONENT DETAILS Drawing Series: DANPAL FREESPAN MULTICELL ROOF STANDARD DETAILS</p>							
<p>Dan Pal Australia Pty Ltd ABN 85 124 859 212 11/4-6 Junction Street, Auburn NSW 2144 Tel: 02 9475 2000 Web: www.danpal.com.au</p>			<p>Drawn: HL Sheet Scale: 1:2 @ A3</p>		<p>Checked: AN Date: 3/4/2023</p>					
			<p>Revision: B</p>		<p>Sheet: 2 of 5</p>					

PANEL SET OUT		
Panel Thickness	Panel Width	Install Module
8mm	600mm	603mm
10mm	600mm	603mm
12mm	900mm	903mm
16mm	1040mm	1043mm



CROSS SECTION - TYPICAL DETAILS



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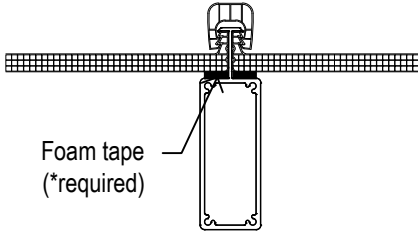
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Drawing Series:
DANPAL FREESPAN MULTICELL ROOF STANDARD DETAILS

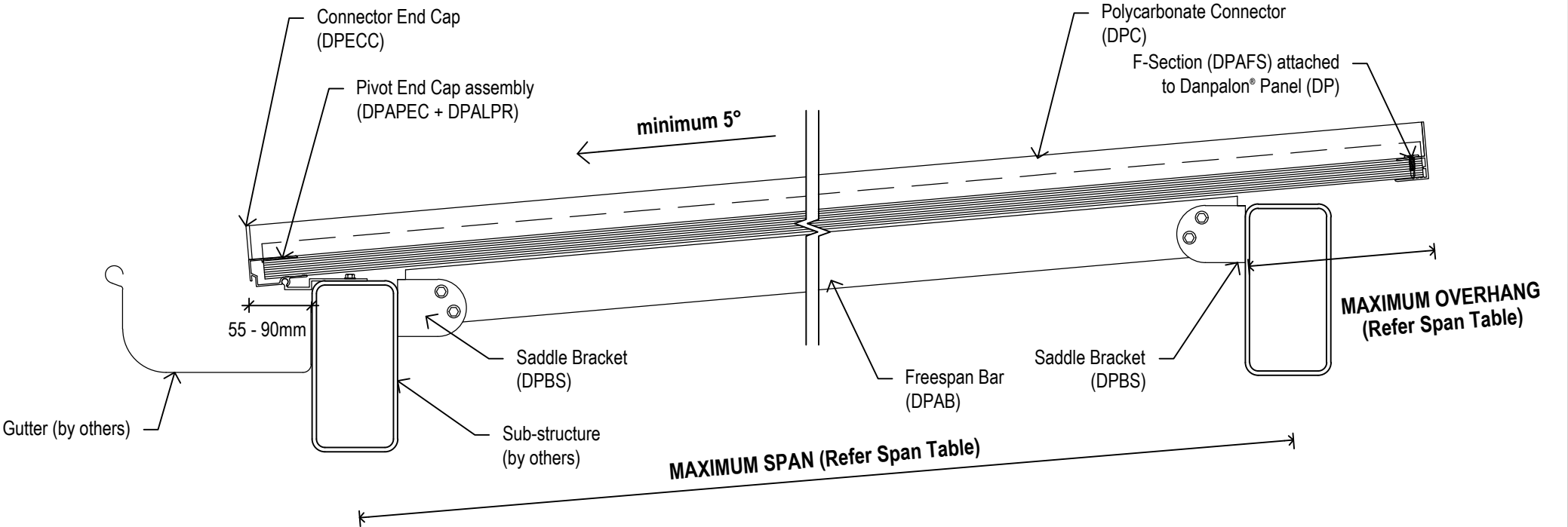
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Sheet Scale: 1:5 @ A3	Date: 3/4/2023	Sheet: 3 of 5

SPAN TABLE				
Freespan Bar	Danpalon® Panel			
	8mm	10mm	12mm	16mm
50mm (DPAB50)	-	-	-	3800
60mm (DPAB60)	4600	4600	-	-
70mm (DPAB70)	5200	5200	-	-
80mm (DPAB80)	*5800	5800	5100	-
100mm (DPAB100)	*7000	*7000	*6100	6000
150mm (DPAB150)	*9600	*9600	*8100	8000
Above figures are in millimetres (mm).				
* Denotes that tape is required to make this panel compatible with this bar (refer to Tape Cross Section).				
Design load 1 kPA (ultimate) 0.7 kPA (serviceable). Deflection criteria span / 50.				
Curved spans vary according to desired radius.				
Please consult Danpal Australia for any other situations and more information.				

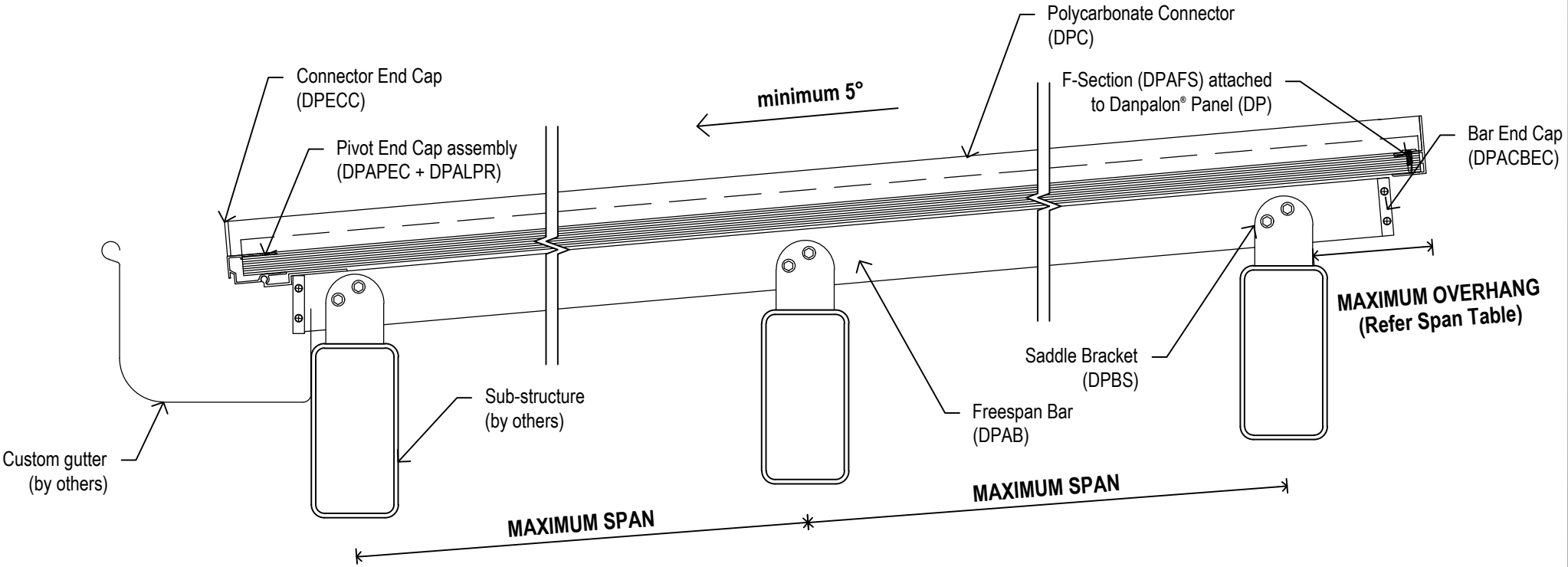
OVERHANG CHART				
Freespan Bar	Danpalon® Panel			
	8mm	10mm	12mm	16mm
Polycarbonate connector (without Bar)	100	100	150	200
50mm (DPAB50)	-	-	-	1200
60mm (DPAB60)	1700	1700	-	-
70mm (DPAB70)	2200	2200	-	-
80mm (DPAB80)	2600	2600	1600	-
100mm (DPAB100)	2800*	2800*	1500*	1400
150mm (DPAB150)	3000*	3000*	1600*	1500
Above figures are in millimetres (mm).				
* Denotes that tape is required to make this panel compatible with this bar (refer to Tape Cross Section).				
Please consult Danpal Australia for any other situations and more information.				



TAPE CROSS SECTION



LONGITUDINAL SECTION - SINGLE SPAN, BARS BETWEEN FRAME



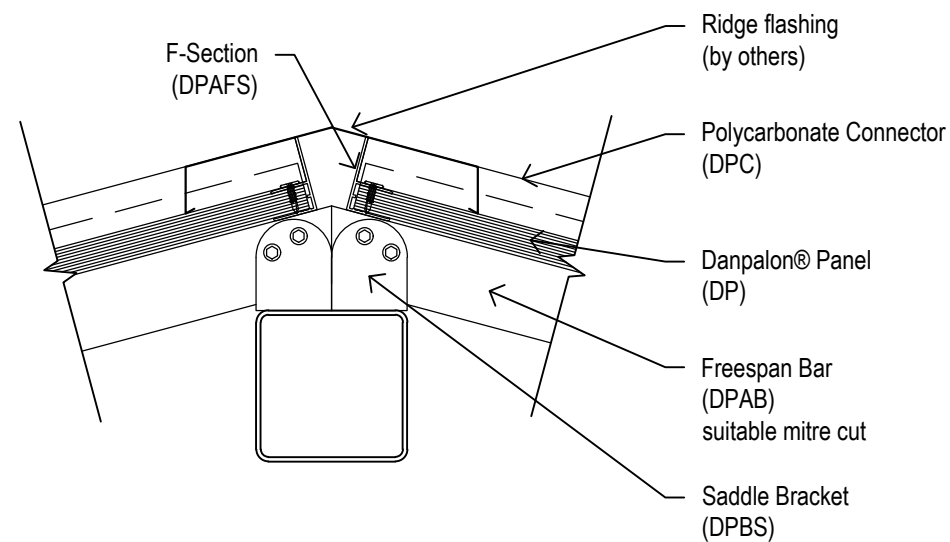
LONGITUDINAL SECTION - MULTIPLE SPANS, BARS OVER FRAME



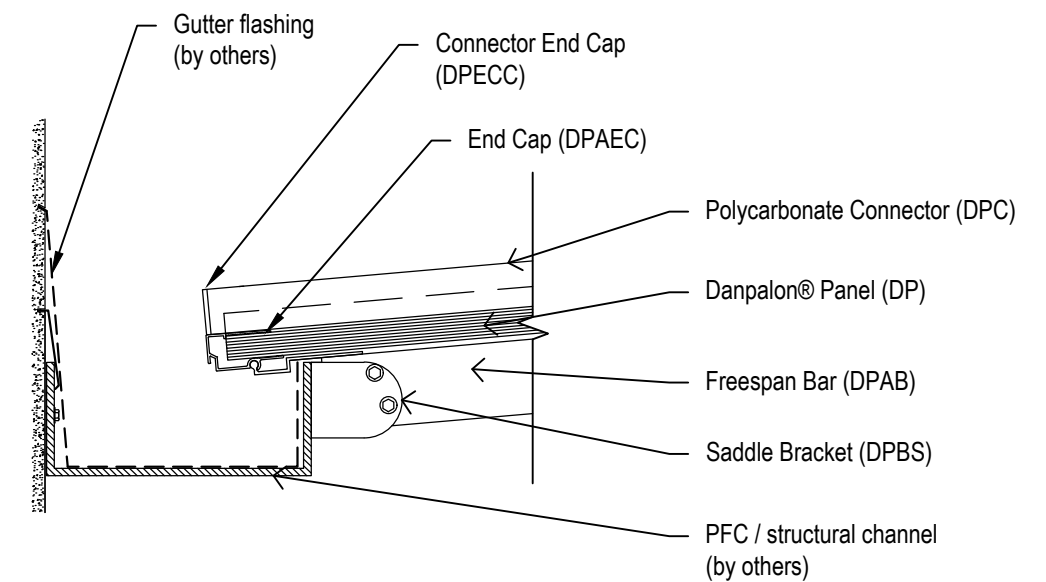
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Sheet Title:
LONGITUDINAL SECTION DETAILS
Drawing Series:
DANPAL FREESPAN MULTICELL ROOF STANDARD DETAILS

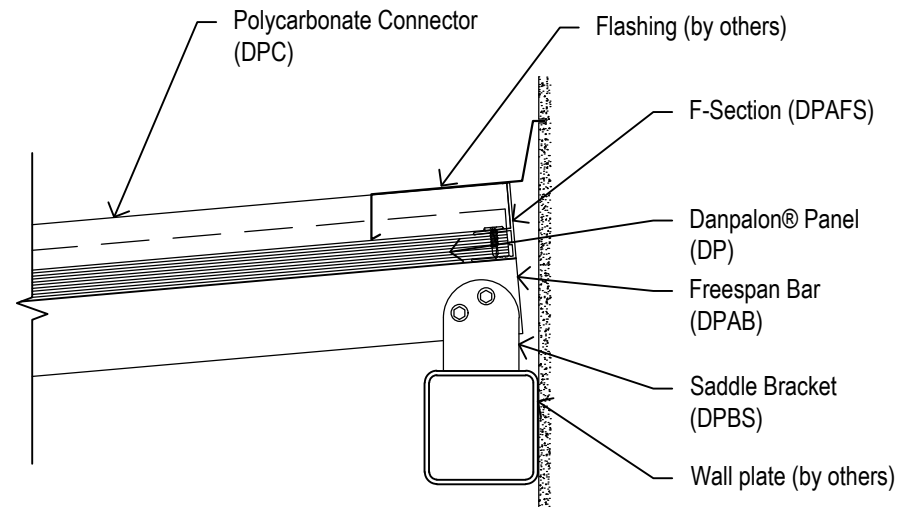
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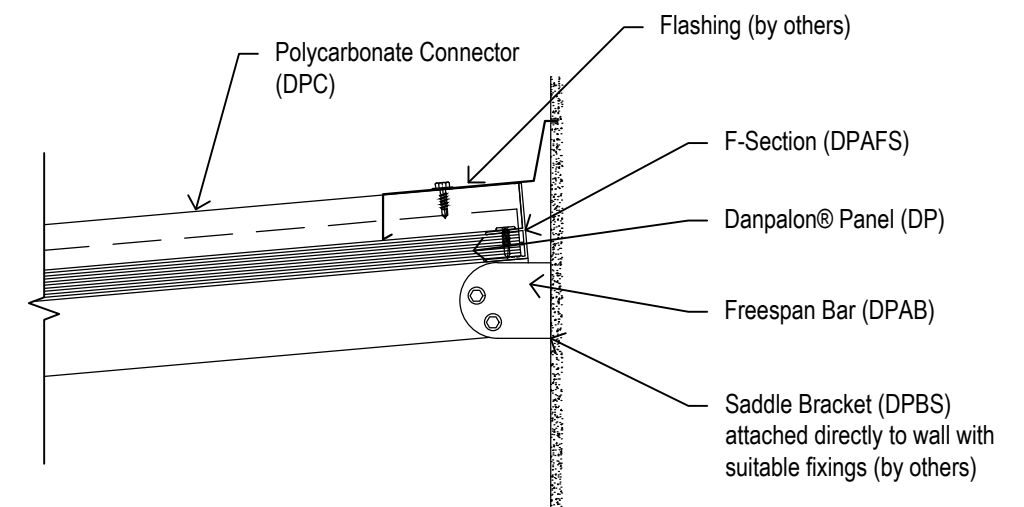
RIDGE DETAIL



STRUCTURAL GUTTER DETAIL



HEAD WALL MOUNT DETAIL



ALTERNATIVE HEAD WALL MOUNT DETAIL