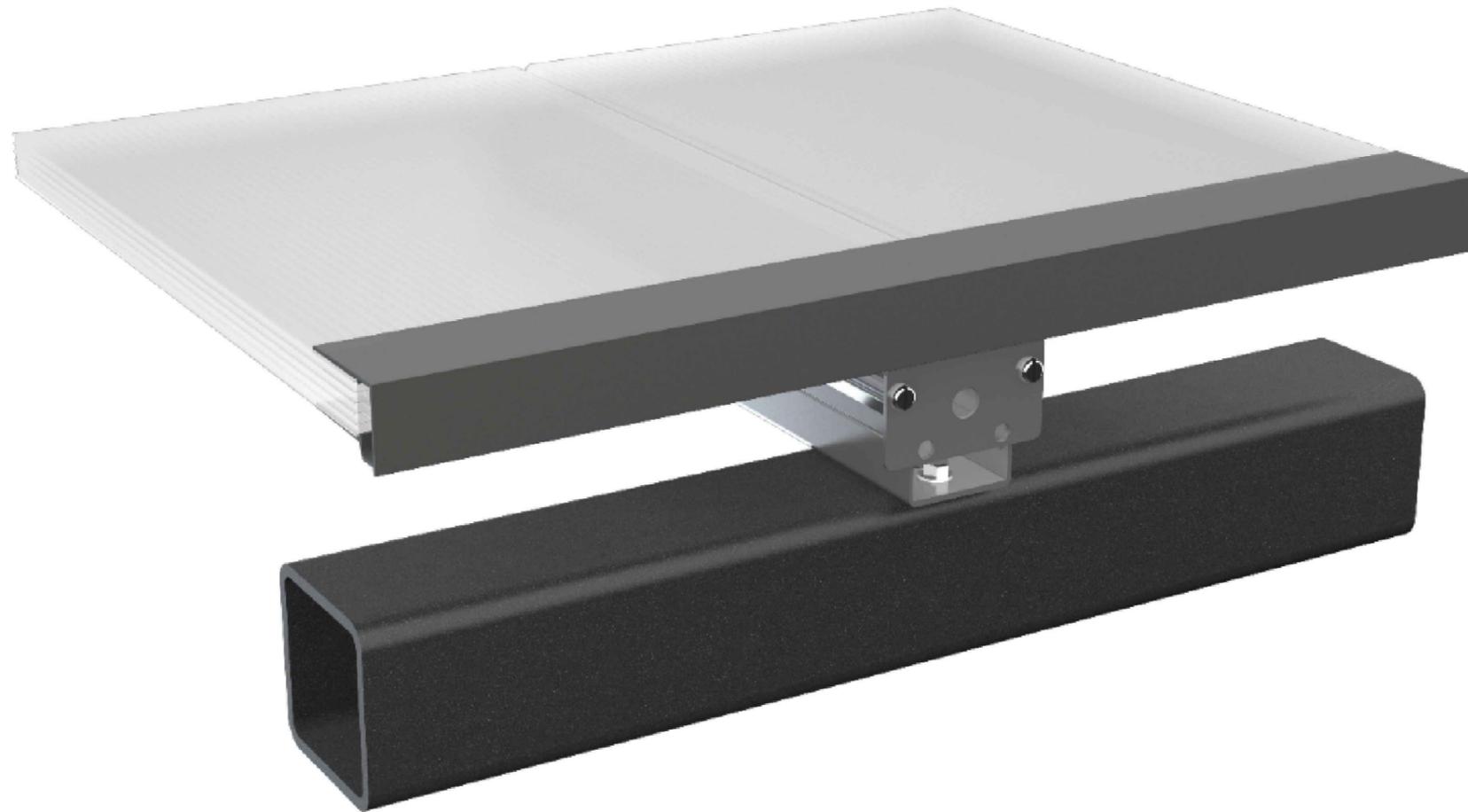


# DANPAL SEAMLESS ROOF SYSTEM

with DANPALON<sup>®</sup> Multicell Panels



## GENERAL NOTES

### DRAWING INFORMATION:

This drawing set is only applicable to the standard Danpal Seamless Roof System using Danpalon<sup>®</sup> 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:

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.

Flashings 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<sup>®</sup> STANDARD DETAILS ARE INTENDED ONLY AS A GUIDE FOR PROJECT-SPECIFIC ENGINEERING DOCUMENTATION BY AN APPROPRIATELY QUALIFIED ENGINEER.**



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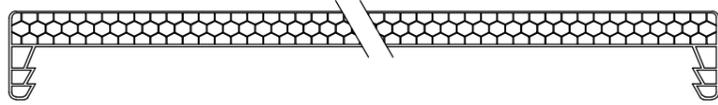
Sheet Title:  
**TITLE PAGE AND GENERAL NOTES**  
 Drawing Series:  
**DANPAL SEAMLESS ROOF STANDARD DETAILS**

Drawn:  
**HL**  
 Sheet Scale:  
**NTS**

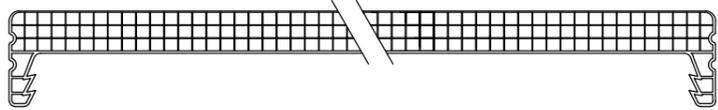
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**12/11/2020**

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**A**  
 Sheet:  
**1 of 4**

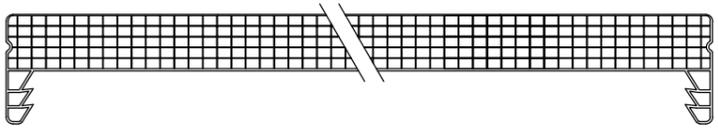
## DANPALON® PANEL OPTIONS



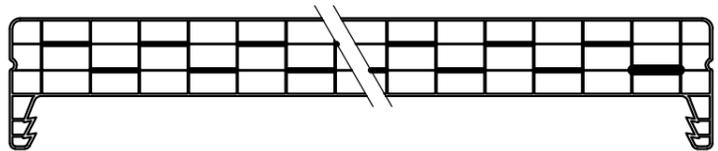
**DP10 - 10mm Honeycomb**  
 (600mm width)  
 Weight: 2666gsm  
 Stocked in all Reflective, Standard and Premium colours  
 Other colours available to order



**DP12 - 12mm Multicell**  
 (900mm width)  
 Weight: 2840gsm  
 Stocked in Softlite Ice and Reflective Grey  
 Other colours and 600mm width available to order



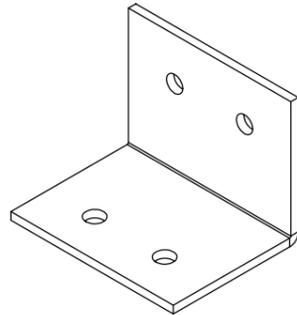
**DP16 - 16mm multicell**  
 (600mm or 1040mm width)  
 Weight: 3666gsm  
 Stocked in Clear (1040mm only), Opal (1040mm only), Ice, Softlite Ice (1040mm only) and Reflective Grey  
 Other colours and 900mm width available to order



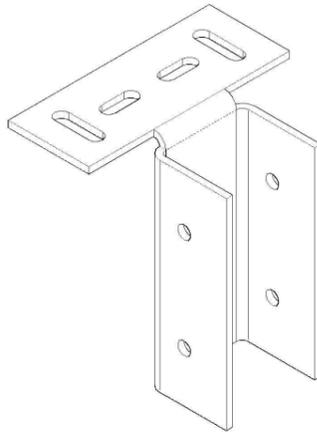
**3DLite - 22mm Louvred Panel**  
 (600mm width)  
 Weight: 3100gsm  
 Stocked in White  
 Other colours available to order

## CONNECTOR BRACKETS

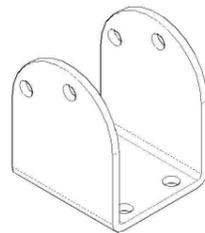
**DPBA - Angle Bracket**  
 Stocked In Galvanised Steel Finish  
 Powdercoating available to order



**DPBG40 / 60 / 80 - Girt Bracket**  
 Stocked In Galvanised Steel Finish  
 Powdercoating available to order



**DPBS - Saddle Bracket for DPAC60 - DPAC150**  
 Stocked In Galvanised Steel Finish  
 Powdercoating available to order



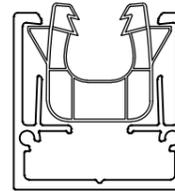
## FASTENERS



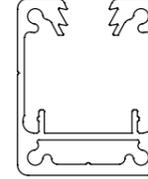
**WS16/22/35 - Wafer Screw 16mm / 22mm / 35mm**  
**TEK25 - Hex Head Screw 25mm / 45mm**  
 Self-Drilling screws suitable for Metal and Timber (specify substrate when ordering)  
 Zinc-Galv. and Stainless Steel options available to order

## CONNECTOR OPTIONS

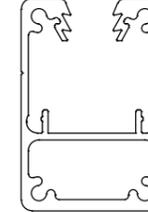
**DPAEC50 Expansion Connector**  
 Weight: 1.3 kg/m



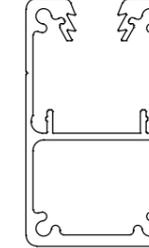
**DPAC50 Connector**  
 Weight: 1.6 kg/m



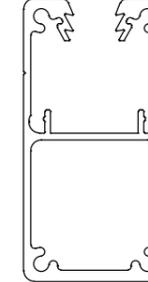
**DPAC60 Connector**  
 Weight: 1.7 kg/m



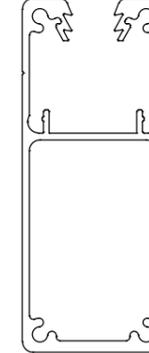
**DPAC70 Connector**  
 Weight: 1.8 kg/m



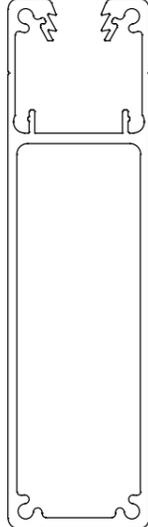
**DPAB80 Connector**  
 Weight: 1.9 kg/m



**DPAC100 Connector**  
 Weight: 2.3 kg/m



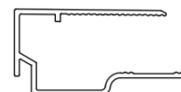
**DPAC150 Connector**  
 Weight: 3 kg/m



### Notes:

All connectors are Aluminium 6351 T5 Alloy  
 Stocked in Mill Finish  
 Anodising and Powdercoating available to order

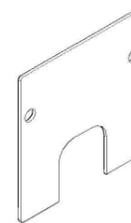
## OTHER PROFILES AND ACCESSORIES



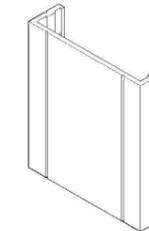
**DPAEC - Aluminium End Cap (Non-Pivot)**  
 Stocked in Clear Anodised Finish  
 Powdercoating available to order  
 Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels  
 (\*16mm variant shown)



**DPAECLW - Aluminium Light Weight End Cap**  
 Stocked in Mill Finish  
 Anodising and Powdercoating available to order  
 Suitable for 10mm and 16mm Danpalon® Panels  
 (\*16mm variant shown)



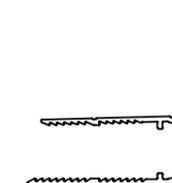
**DPECLP - Expansion Connector End Plate**  
 Stocked in Stainless Steel



**DPACBEC - Aluminium Connector Bar End Cap**  
 Stocked in Mill Finish  
 Anodising and Powdercoating available to order  
 Suitable for 50mm to 150mm Connectors (DPAC50-150)



**DPAFS - Aluminium F-Section**  
 Stocked in Mill and Clear Anodised Finish  
 Powdercoating available to order  
 Suitable for 8mm, 10mm, 12mm and 16mm Danpalon® Panels  
 (\*16mm variant shown)



**DPAFSL - Aluminium Long Leg F-Section**  
 Stocked in Mill Finish  
 Anodising and Powdercoating available to order  
 Suitable for 16mm Danpalon® Panels



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Sheet Title:  
**COMPONENT DETAILS**

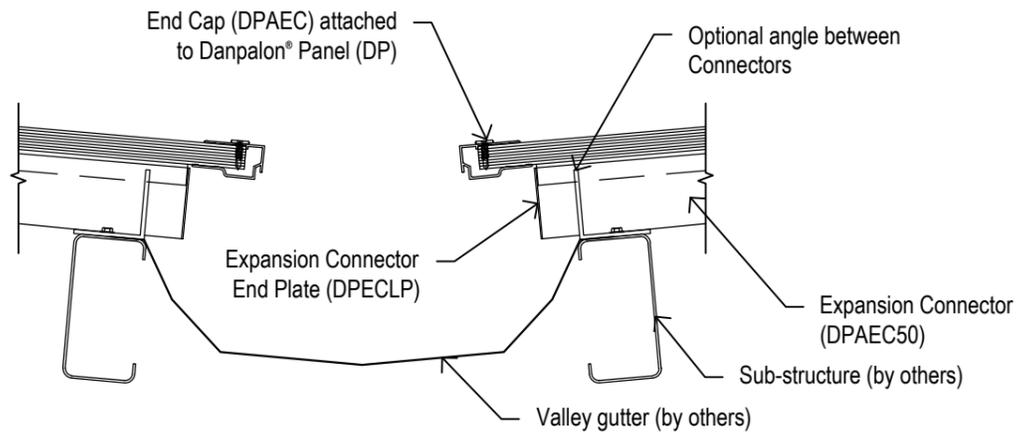
Drawing Series:  
**DANPAL SEAMLESS ROOF STANDARD DETAILS**

Drawn:  
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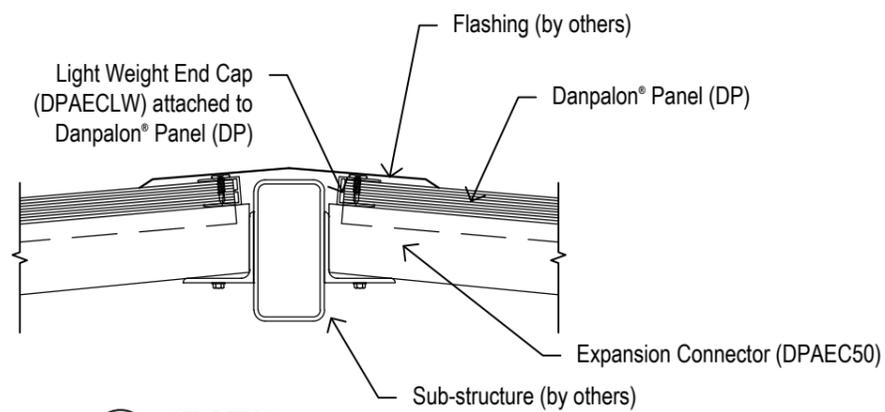
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**2 of 4**

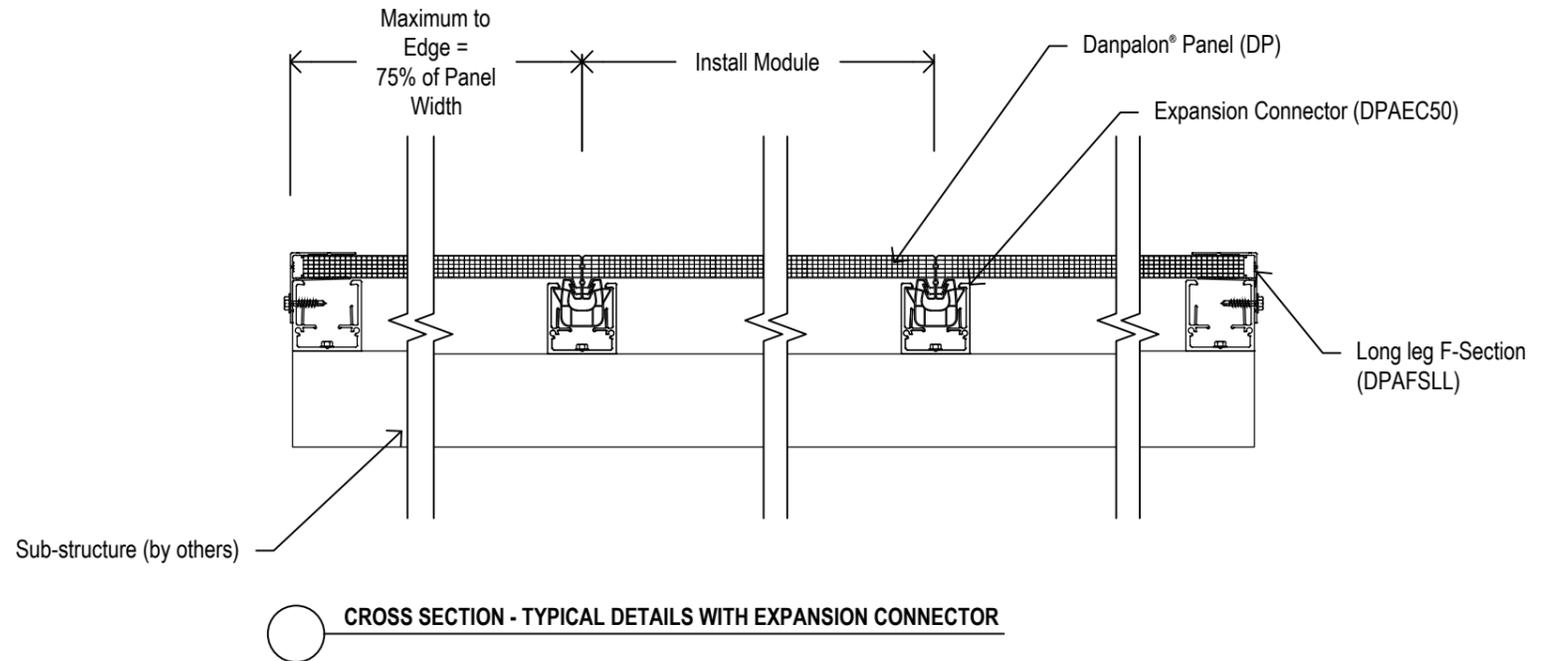
PANEL SET OUT		
Panel Thickness	Panel Width	Install Module
10mm	600mm	601mm
12mm	900mm	901mm
16mm	1040mm	1041mm
3DLite	600mm	601mm



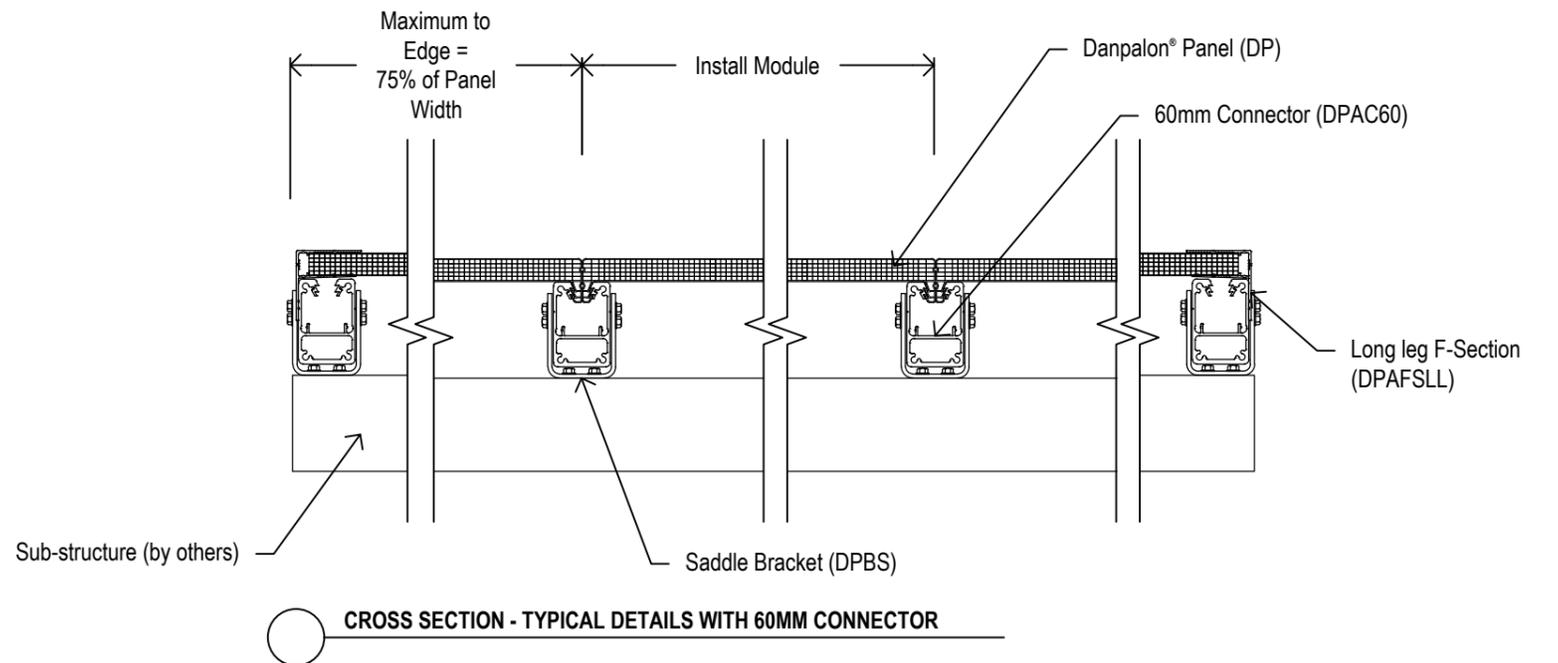
○ VALLEY DETAIL



○ HIP DETAIL



○ CROSS SECTION - TYPICAL DETAILS WITH EXPANSION CONNECTOR



○ CROSS SECTION - TYPICAL DETAILS WITH 60MM CONNECTOR



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Sheet Title:  
**CROSS SECTION DETAILS**  
 Drawing Series:  
**DANPAL SEAMLESS ROOF STANDARD DETAILS**

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 Sheet Scale:  
**1:5 @ A3**

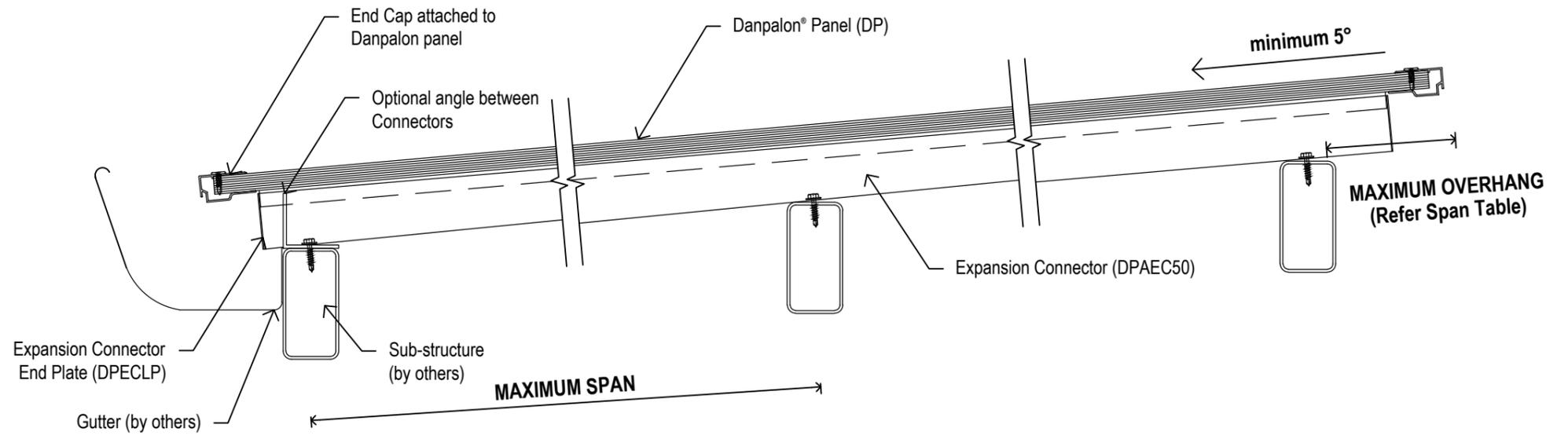
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**AN**  
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### SPAN TABLE

Connector	Danpalon® Panel			
	10mm	12mm	16mm	3D Lite
Expansion (DPAEC50)	3000	2700	2500	3000
50mm (DPAC50)	3600	3200	3100	3600
60mm (DPAC60)	4200	3700	3600	4200
70mm (DPAC70)	4700	4100	4000	4700
80mm (DPAC80)	5200	4600	4450	5200
100mm (DPAC100)	6300	5500	5300	6300
150mm (DPAC150)	9000	7600	7300	9000

Above figures are in millimetres (mm).  
 Design load 1 kPA (ultimate) 0.7 kPA (serviceable). Deflection criteria span / 50.  
 Curved spans vary according to desired radius and are not possible when using the Expansion Connector or 150mm Connector.  
 Please consult Danpal Australia for any other situations and more information.

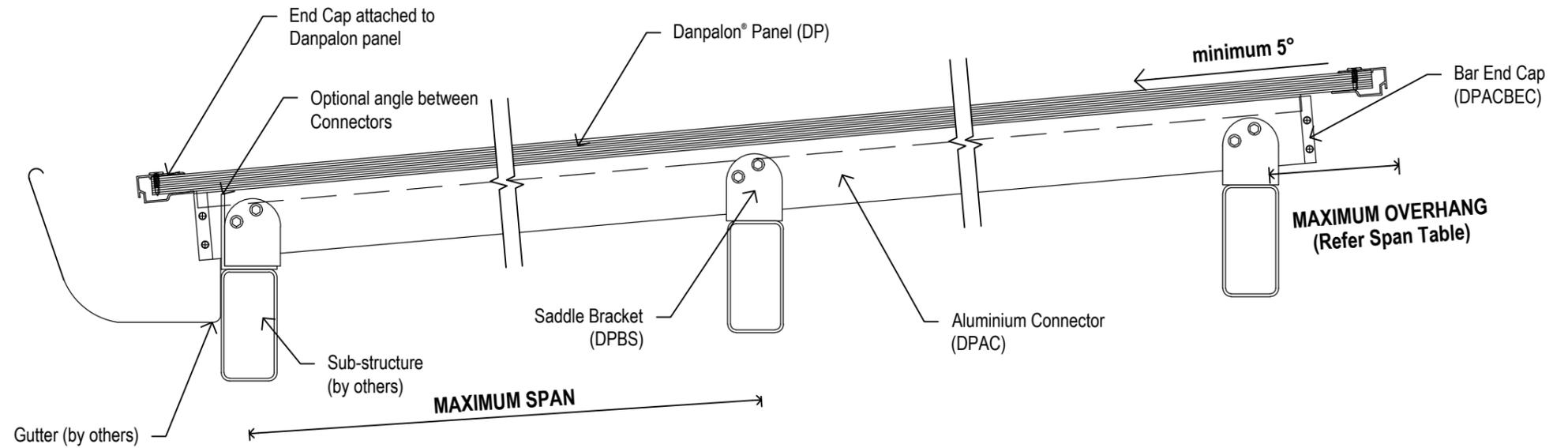


LONGITUDINAL SECTION - TYPICAL DETAILS WITH EXPANSION CONNECTOR

### OVERHANG CHART

Connector	Danpalon® Panel			
	10mm	12mm	16mm	3D Lite
Expansion (DPAEC50)	800	750	725	800
50mm (DPAC50)	1000	900	875	1000
60mm (DPAC60)	1300	1200	1150	1300
70mm (DPAC70)	1600	1550	1500	1600
80mm (DPAC80)	1900	1850	1800	1900
100mm (DPAC100)	2500	2200	2000	2500
150mm (DPAC150)	4000	3400	3000	4000

Above figures are in millimetres (mm).  
 Design load 1 kPA (ultimate) 0.7 kPA (serviceable). Deflection criteria span / 50.  
 Curved spans vary according to desired radius and are not possible when using the Expansion Connector or 150mm Connector.  
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LONGITUDINAL SECTION - TYPICAL DETAILS WITH 60MM CONNECTOR



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Sheet Title:  
**LONGITUDINAL SECTION DETAILS**  
 Drawing Series:  
**DANPAL SEAMLESS ROOF STANDARD DETAILS**

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**4 of 4**