



SUNPAL[®]

Multiwall Polycarbonate Standing Seam Architectural System
For facades and curtain wall glazing



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SUNPAL is an advanced multiwall polycarbonate panel system that combines proven design, light transmission, thermal insulation and strength. It offers a lightweight, leak-proof design that withstands very high loads and accommodates expansion and contraction. The system's distinct advantages make it ideal for long-term application on many types of projects. As with any true architectural glazing system, SUNPAL is appropriate for a variety of vertical glazing designs in facades, curtain walls and windows.

SUNPAL is a self-fastening system, based on multiwall panels, and is available in a range of thicknesses. The panels join together by polycarbonate or aluminum joiners, which are sealed at the ends by End-Caps. The joiners can be hidden or visible, depending on the installation method and design choice. There is no need for any fastener penetration through the panels.

Ventilated Sealing Tape seals the panel lower end, to prevent dirt from entering the flutes, while also providing sufficient drainage. U-Profiles (polycarbonate or aluminum) or F-Profiles (aluminum) seal the upper ends of the panels. Aluminum F-Profiles finish off side edges of the plane, creating a fully framed installation.

Typical Applications

- Commercial facades and curtain walls
- Museums and libraries
- Sport facilities - translucent facades
- Celerstory windows
- Industrial and agricultural sidelights
- Parking structures and service stations
- Swimming pool siding
- Internal partition walls
- Residential porch walls



Easy to
Install



Durable Against
Impact



Reduced
Rain Noise



Premium
Solution



UV Protection



Superior
Strength



Panel Types

SUNPAL panels have a multiwall structure, and are available in thicknesses of 8mm, 10mm, 18mm and 20mm. Standard SUNPAL panels are UV protected on both sides. One side UV protected panels are available for special orders. Maximum panel length is 39' 4" (11.99m) (typical stock length).

Type	Panel Data	Drawings
SUNPAL 8/600 Lite *	Width: 600mm Height: 23.5mm Height with Polycarbonate Joiner: 31mm Weight: 1.11 Kg/m, 1.83 Kg/m ² Min. cold bending radius: 2.0m	
SUNPAL 8/600 *	Width: 600mm Height: 23.5mm Height with Polycarbonate Joiner: 31mm Weight: 1.24 Kg/m, 2.00 Kg/m ² Min. cold bending radius: 2.0m	
SUNPAL 10/600 **	Width: 600mm Height: 25.5mm Height with Polycarbonate Joiner: 33mm Weight: 1.56 Kg/m, 2.60 Kg/m ² Min. cold bending radius: 2.4m	
SUNPAL 18/1000 **	Width: 1000mm Height: 33.5mm Height with Polycarbonate Joiner: 41mm Weight: 3.11 Kg/m, 3.11 Kg/m ² Min. cold bending radius: 3.0m	
SUNPAL 20/1000 *	Width: 1000mm Height: 35.5mm Height with Polycarbonate Joiner: 43mm Weight: 3.19 Kg/m, 3.19 Kg/m ² Min. cold bending radius: 3.0m	

* Available subject to MOQ ** Stocked in Australia



Colours

Colour		SUNPAL 8/600* & 10/600			SUNPAL 18/1000* & 20/1000		
		%LT	SHGC	SC	%LT	SHGC	SC
	Clear	65 *	0.63	0.72	50 *	0.54	0.62
	Bronze	25 *	0.40	0.46	20	0.35	0.39
	Grey	30 *	0.45	0.52	24 *	0.44	0.51
	White Opal	25 *	0.37	0.43	20	0.30	0.34
	White Ice	50	0.56	0.64	40	0.48	0.55
	Green	50 *	0.56	0.64	38	0.46	0.53
	Blue	50 *	0.60	0.69	36	0.50	0.57
	Red	20 *	0.52	0.60	20	0.44	0.50
	Purple	40 *	0.55	0.63	40	0.50	0.58
	Magenta	20 *	0.55	0.63	20	0.52	0.60
	Orange	35 *	0.51	0.59	35	0.46	0.53
	Yellow	55 *	0.57	0.65	55	0.51	0.59
	Aqua Green	14	0.30	0.35	14	0.27	0.31
	Navy Blue	20	0.45	0.52	22	0.41	0.47
MultiLayer							
	White / Bronze	10	0.29	0.34	10	0.29	0.34
	White / Grey	10	0.29	0.34	10	0.29	0.34
	White / Blue	10	0.37	0.43	10	0.37	0.43
	White / Red	4	0.28	0.32	4	0.28	0.32
SolarSmart™ Selective Solar Control Technology							
	Solar Ice	20 *	0.28	0.32	15	0.23	0.26
	Solar Control	20 *	0.30	0.34	15 *	0.25	0.29
	Bluish Breeze	34	0.32	0.38	34	0.33	0.38
DiffuserPlus							
	Clear	50	0.49	0.56	33 *	0.40	0.46
	Bronze	20	0.42	0.44	20	0.37	0.43
	White Opal	26	0.40	0.45	20 *	0.33	0.38
	Green	40	0.48	0.54	25	0.38	0.44
	Blue	40	0.51	0.59	25	0.41	0.48
	Red	20	0.47	0.55	15	0.39	0.45
	Solar Ice	20	0.35	0.41	15 *	0.30	0.35
	Grey	30	0.42	0.49	30	0.41	0.48

Note: *stocked colour in Australia. Other colours available subject to MOQ please contact your local Palram distributor.

LT (Light Transmission)

The percentage of incident visible light that passes through an object.

SHGC (Solar Heat Gain Coefficient)

The percentage of incident solar radiation transmitted by an object, which includes the direct solar transmission and the part of the solar absorption radiated inward.

SC (Shading Coefficient)

The amount of the sun's heat transmitted through a given window compared with that of a standard 3mm thick single pane of glass under the same conditions.

Efficient Daylighting



Solarsmart™ is a multi benefit technology that combines high light transmission with low heat buildup. By blocking Infra-Red energy that causes heat buildup, they transmit "cool light" and reduce air-conditioning and lighting costs.

Transmit more energy-saving, natural visible light.



Block Infra-Red energy and reduce heat buildup.

SolarSmart™ Panel ↑

Double Diffusion



DiffuserPlus™ offers double diffusion which prevents both transmitted and reflected light from excessive glare.

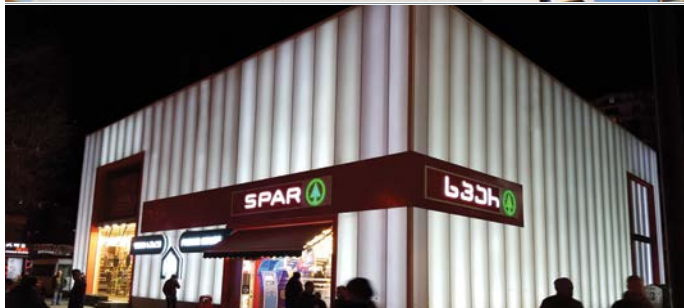


Project Gallery



Swinburne Hawthorn University, Australia

Application: Facade
SUNPAL Type: Red 18mm



Spar Tbilisi, Georgia

Architect: Irakli Abashidze
Application: Facade
SUNPAL Type: White Diffuser 20mm



Foxwell State Secondary College, Australia

Architect: Open Architecture Studio
Application: Facade - 630sqm
SUNPAL Type: White Opal Diffuser Plus 18mm



Santiago Metro Train Depot, Chile

Application: Sidelight - 1,500sqm
SUNPAL Type: White Opal 18mm



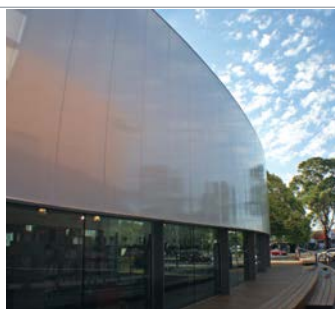
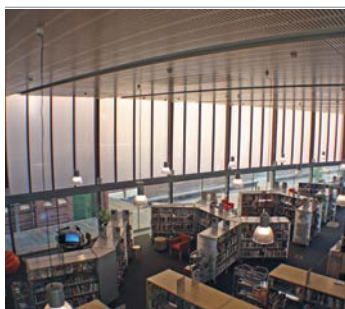
Pretoria University, South Africa

Architect: EarthWorld Architects
Application: Sidelight - 300sqm
SUNPAL Type: Solar Control 18mm



Wingate Sports Center, Israel

Architect: Atzmon Architects
Application: Sidelight - 2,600sqm
SUNPAL Type: Grey, Blue & Bronze 18mm



Williamstown Library, Victoria, Australia

Architect: Sally Draper Arch.

Application: Sidelight - 330sqm

SUNPAL Type: Solar Ice 18mm



Whitten Oval Community Sports Hall, Australia

Architect: Peddle Thorp

Application: Curtain Wall - 370 sqm

SUNPAL Type: Solar Ice 18 mm



Business Park, UK

Architect: Aros Architects UK

Application: Staircase Cladding - 146 sqm

SUNPAL® Type: 18 mm



Griffith University at Gold Coast Australia

Application: Study Pod Partitions

SUNPAL Type: Clear 8 mm



Stradbroke House, Australia

Application: Facade

SUNPAL Type: Solar Ice 10mm



Private Residence, New Zealand

Application: Curtain Wall

SUNPAL Type: Solar Ice 18mm



Typical Physical Properties

Property	Method*	Conditions	Units	Value
Density	D-792		g/cm ³	1.2
Heat deflection temperature (HDT)	D-648	Load: 1.82 MP	°C	130
Service Temperature - Short term			°C	-50 to +120
Service Temperature - Long term			°C	-50 to +100
Coefficient of linear thermal expansion	D-696		cm/cm °C	6.5 x 10 ⁻⁵
Tensile strength at yield	D-638	10 mm/min	MPa	62
Elongation at break	D-638	10 mm/min	%	>80
Impact falling dart	ISO 6603/1		J	40-400
Practical Thermal expansion/contraction rate			mm/m	3

*ASTM method except where noted otherwise

Thermal Insulation

Type	U-Value [Watts /m ² ·K]	R-Value [m ² ·K / Watt]
SUNPAL Lite 8 mm	2.45	0.41
SUNPAL 8 mm	2.45	0.41
SUNPAL 10 mm	2.10	0.47
SUNPAL 18/20 mm	1.50	0.67

Flammability

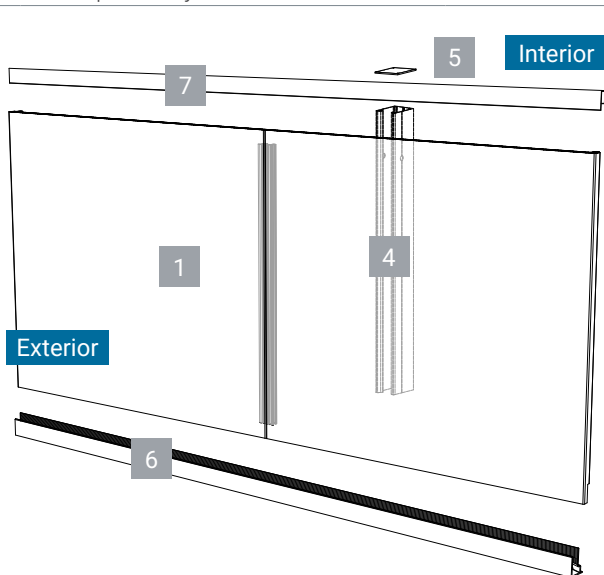
SUNPAL complies with the most demanding international fire resistance standards in the field of plastics, as indicated in the detailed table herein. The classification is subject to product type, thickness and color.

Method	Classification*
EN 13501	B, s1, d0
ASTM E 84	Class A
ASTM D635	10mm - CC1
	18mm - CC2

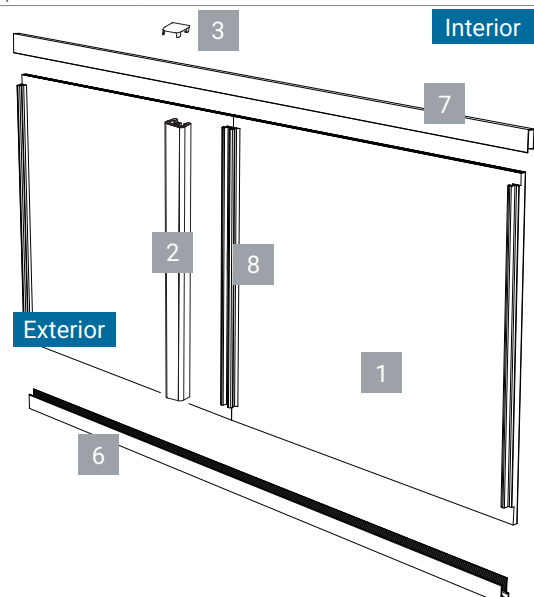
*Depends on panel thickness.

Assembly Details

1 Panel	4 Aluminum Joiner 'C'	7 Polycarbonate U-Profile
2 Polycarbonate Joiner	5 End-Cap for Aluminum Joiner 'C'	8 T-Fastener
3 End-Cap for Polycarbonate Joiner	6 Aluminum Sealing Strip	



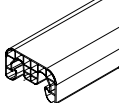
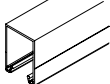
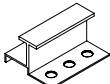
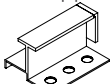
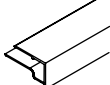
Hidden seam installation



Visible seam installation

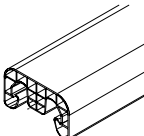
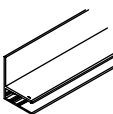
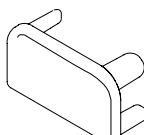
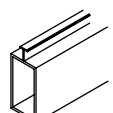
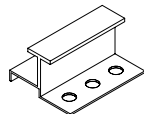
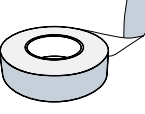
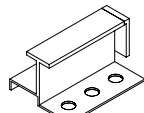
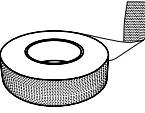
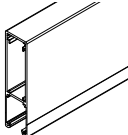
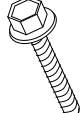
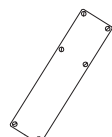
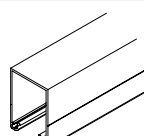
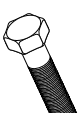
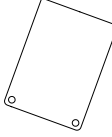
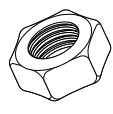
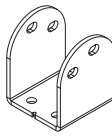
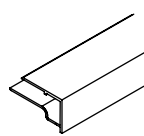
System Principles

A SUNPAL system is primarily defined by the panel thickness. All other components are selected to match this panel.

Component		
Joiners		The joiners are made of polycarbonate or aluminum and fit all panel types. The choice between them is usually made according to the type of application - Polycarbonate Joiner for or any case where the seam is external; Aluminum Joiner 'C' for hidden seam applications.
	Polycarbonate Joiner 	Polycarbonate Joiner is 22mm high and 39mm wide, made of extruded polycarbonate in a color matching to that of the panels. Its maximum length is 11,990mm and it weighs 160 gr/m. The Polycarbonate Joiner should overhang about 100mm beyond the last fastener. End Cap for the Polycarbonate Joiner is a clear acrylic cap designed to be plugged at the joiner edge. It prevents water and dirt penetration, helps to reinforce the joiner ends and provides styled appearance to the system edge.
	Aluminum Joiner 	Aluminum Joiner 'C' is 39mm wide and 54mm high, anodized extruded aluminum. Stocked in 6000mm length. The Aluminum Joiner should overhang about 250mm beyond the last fastener. Note: for curved applications, polycarbonate joiners can be cold-curved. Aluminum joiners have to be pre-curved.
Fasteners	T-Fastener 	T-Fastener - Sunpal panels are attached to the supporting structure by the T-Fasteners. These are stainless steel concealed clips that are fixed onto the structure with screws. The fasteners have four different sizes to match each panel type. For installing SUNPAL system onto wooden structure, the T-Fasteners are fixed with Wood Screws. For metal structure, Metal Screws are used. As standard, each fastener is fixed with two screws. For high wind areas, using three screws per fastener is recommended.
	T-Stopper 	T-Stopper - To prevent "travelling" of the panels, it is recommended to fix one T-Stopper at a certain fixing point along each Joiner. This will be the only longitudinal fixed point, while all other fixings of this panel are floating, by regular T-Fasteners. It is a special T-Fastener with added stopper plate, which fits into a slit cut in the attached panels (prepared on spot).
Sealing & end cap Strips	Aluminum Sealing Strip 	The Aluminum Sealing Strips are anodized aluminum profiles with four sizes that match each type of SUNPAL panel. Maximum length is 6000mm (Stock length). These are used as a closure for the panels end (usually the lower) to prevent penetration of dirt and moisture and provide efficient drainage. U-Profile is used for sealing the panel's upper end, preventing penetration of moisture and dirt. Polycarbonate U-Profiles are made of polycarbonate and have two types to suite 8mm and 10mm panels. Their maximum length is 6m (Stock length). Aluminum U-Profile is an anodized aluminum profile, with two types of sizes to suit 18mm and 20mm panels. Their maximum length is 6000mm (Stock length). Aluminum F-Profiles are available in four sizes to match each panel type. These aluminum profiles are anodized and their maximum length is 6000mm (Stock length). The F-Profiles are generally used as side fixing detail, also applicable for an upper-end closure.



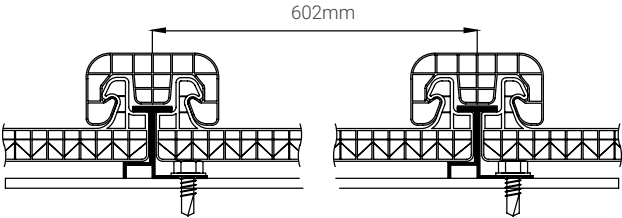
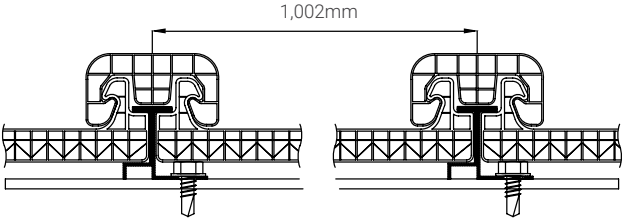
System Components

Component	Suppliance Data	Component	Suppliance Data
 Polycarbonate Joiner	Length: 12m Colors: panel matched	 Aluminum F-Profile	Length: 6m Finish: Anodized
 End-cap for Polycarbonate Joiner	Colors: Clear	 Aluminum Span-Bar *	Length: 7m Finish: Anodized
 T-Fastener	Sizes: 8mm, 10mm**, 18mm**, 20mm Finish: Stainless steel	 Aluminum (Solid) Tape	
 T-Stopper	Sizes: 8mm, 10mm**, 18mm**, 20mm Finish: Stainless steel	 Breather (Ventilated) Tape	
 Aluminum Joiner - C 150 *	Length: 6m Finish: Anodized	 Wood Screw Galvanized Hex-head tapping screw 5x25mm (1")	
 End-Cap for Aluminum Joiner - C 150	Finish: Mill Finish (Natural)	 Metal Screw Galvanized Hex-head self-drilling screw 4.8x19mm (3/4")	
 Aluminum Joiner - C	Length: 6m Finish: Anodized	 Stainless Steel M6 Bolt	
 End-Cap for Aluminum Joiner - C	Finish: Mill Finish (Natural)	 Stainless Steel M6 Nut	
 Saddle Bracket 50mm - Rev C		 Stainless Steel M6 Washer	
 Aluminum Sealing Strip	Length: 6m Finish: Anodized	 Screw for Alu Joiner C End Cap	

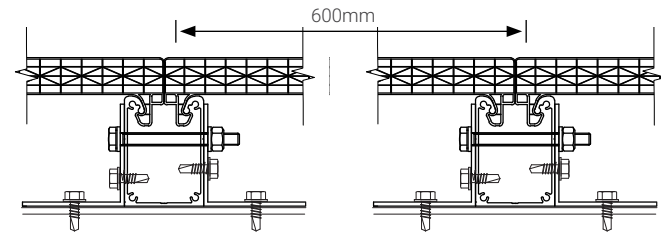
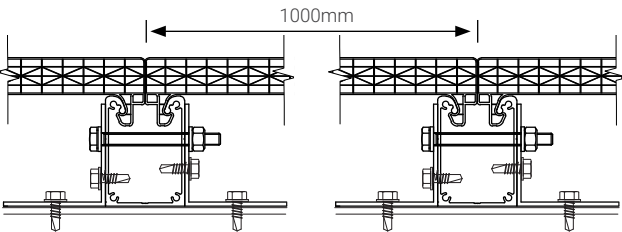
* MOQ - Minimum Order Quantity Required ** Stocked in Australia

Installation Data

Assembled System Width - Visible seam installation

SUNPAL 8/600 and 10/600	SUNPAL 18/1000 and 20/1000
	
Interior	Interior

Assembled System Width - Hidden seam installation

SUNPAL 8/600 and 10/600	SUNPAL 18/1000 and 20/1000
	
Interior	Interior



Maximum Spans Between Girts - Visible seam installation

Type (mm)	Single Span (mm)						Multi-Span											
							Mid-Span (mm)						End-Span (mm)					
																		
	75	100	125	150	175	200	75	100	125	150	175	200	75	100	125	150	175	200
	kg/m ²						kg/m ²						kg/m ²					
SUNPAL 8 mm	850	750	700	650	600	550	1150	1050	900	850	800	750	900	825	700	665	625	585
SUNPAL 10 mm	950	850	800	750	700	650	1350	1250	1100	1050	1000	950	1050	975	860	820	780	740
SUNPAL 18 mm	1100	1000	950	900	850	800	1500	1400	1300	1200	1150	1100	1170	1090	1015	930	900	860
SUNPAL 20 mm	1200	1100	1000	950	900	850	1600	1500	1400	1300	1250	1200	1250	1170	1090	1015	975	935

1. For specific data or any other planning consultation, please contact Palram's Marketing Support department.
2. The values are based on deflection criterion of L/20 of the Polycarbonate panels.
3. The table is valid for purlin installation only.
4. The dimensions depicted do not supersede the requirements of local construction codes.

Maximum Spans Between Purlins - Hidden seam installation

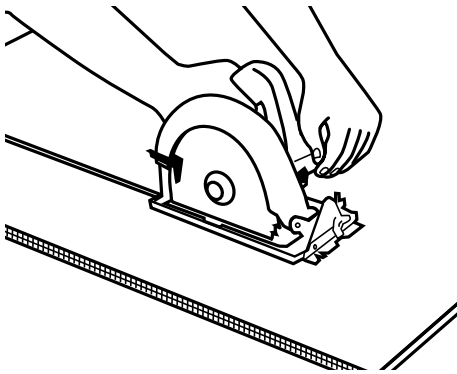
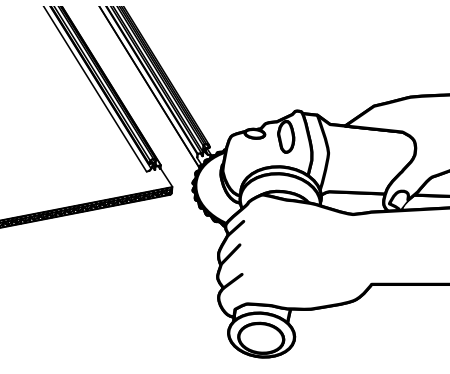
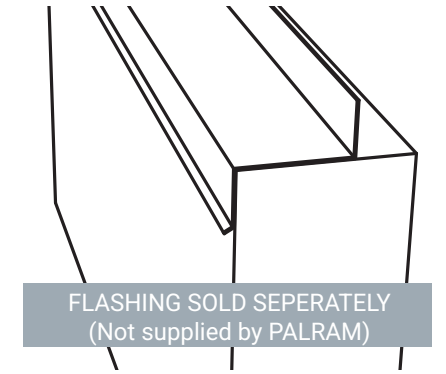
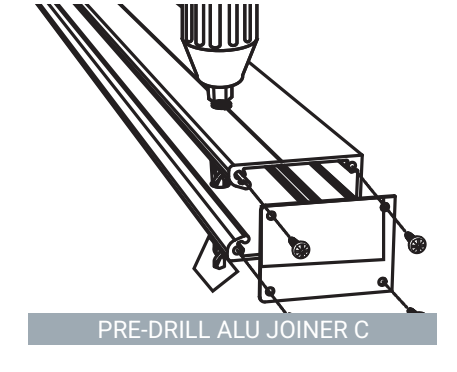
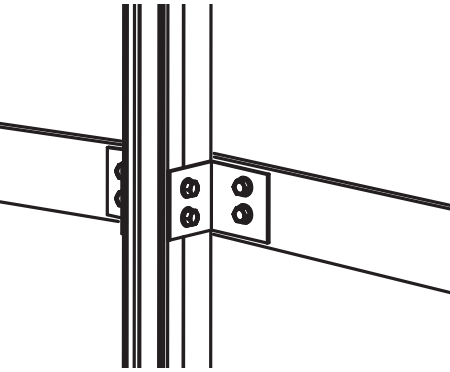
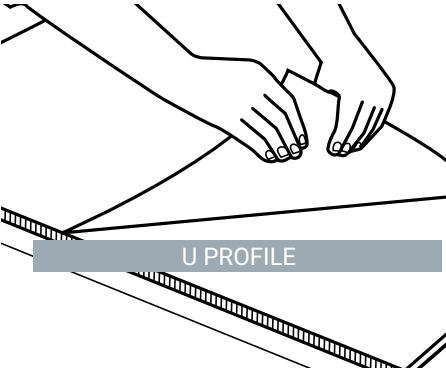
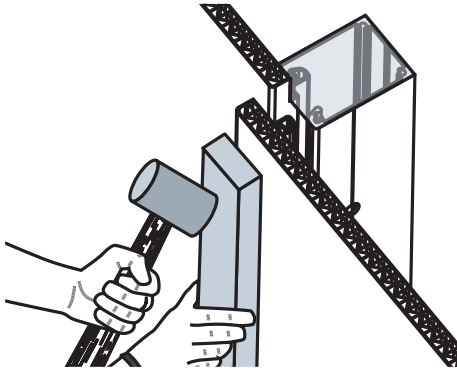
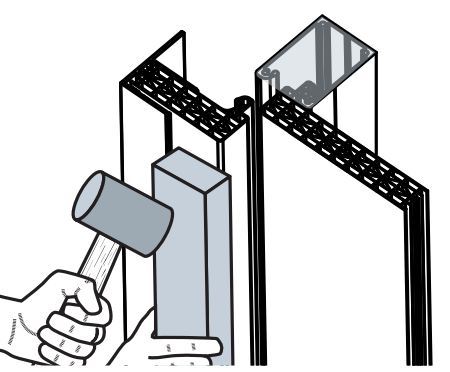
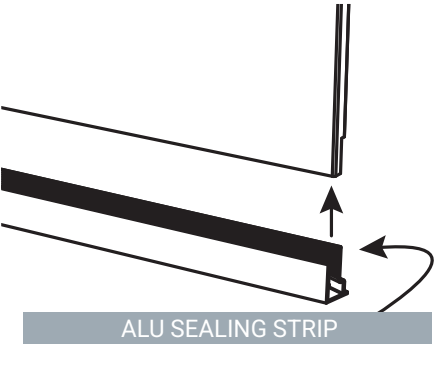
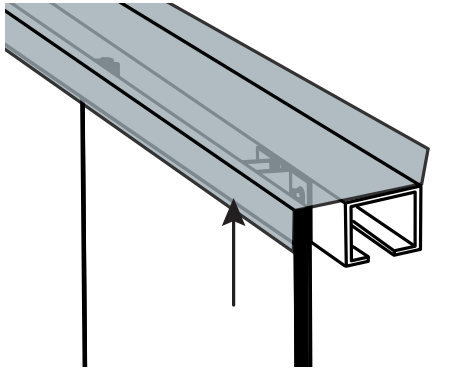
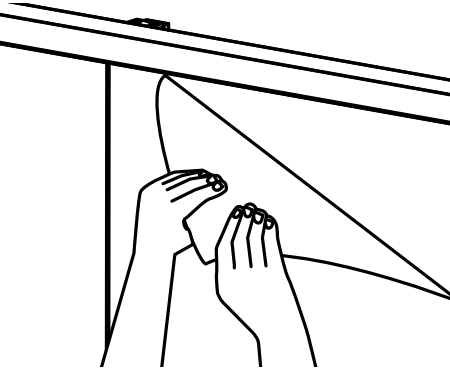
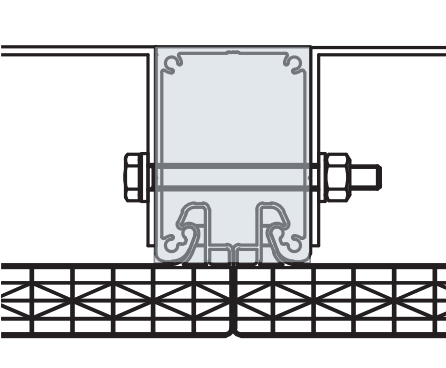
Type [mm]	75 [kg/m ²]	100 [kg/m ²]	125 [kg/m ²]	150 [kg/m ²]	175 [kg/m ²]	200 [kg/m ²]
SUNPAL 8 mm						
	3375	3075	2850	2675	2550	2425
SUNPAL 10 mm						
SUNPAL 18 mm						
	2850	2575	2400	2250	2100	1975
SUNPAL 20 mm						

1. For specific data or any other planning consultation, please contact Palram's Marketing Support department.
2. The spans are calculated for max deflection of L/200 of the span.
3. The calculation is based on fixed boundary condition i.e. no rotation at fixing point.
4. The dimensions depicted do not supersede the requirements of local construction codes.
5. The Aluminum is calculated for max allowed bending stress of 126 Mpa.
6. M6 bolted connection to be applied every 300mm centers along alu joiner C.
7. Spans must be confirmed by a local structural engineer.es.

Cyclonic installation available please contact a Palram representative.



Installation Guidelines

A • Cut to Size 	B • Shorten The Upstands 	C • Install Sill Flashing  FLASHING SOLD SEPERATELY (Not supplied by PALRAM)
D • Alu Joiner C End Cap Fixing  PRE-DRILL ALU JOINER C	E • Fix Alu Joiner C To Structure 	F • Remove Inner Masking  U PROFILE
G • Panel Installation 	H • Edge Panel Installation 	I • Fix Alu Sealing Strip  ALU SEALING STRIP
J • Fix Alu Or Polycarbonate U Profile 	K • Remove Outer Masking Film 	L • Fix M6 Bolts 

*Reference to the illustrations above appear in brackets in the text below.



A ▪ Cut to Size

Measure the height of the structure and cut panels to allow maximum overhang of 150 mm (6") beyond top and bottom girts centers. Minimum overhang from girt centers is 50mm. Use a circular or hand saw with fine tooth blades for easier and more precise cutting.

B ▪ Shorten the upstands

Using a small cutting disc (2mm thick), shorten the upstands at the bottom end of the sheet by 20mm. Shorten the upstands of the top end by 20mm + 3mm X panel length (in meters) to allow thermal expansion. This cut should be parallel to the panel face, but without damaging the panel's surface. Since this step needs precision, it is highly recommended to perform this action at ground level.

Removing cutting chips

Use a vacuum cleaner or an air compressor with blow gun to blow out any "swarf" or loose particles from inside the panel. Make sure that both ends of panel are not covered with the protective film

C ▪ Install sill flashing

Install a sill flashing along the entire bottom purlin / edge of the structure. If needed, make an overlap and seal with silicone. Note that the sill flashing is not part of the Sunpal system.

Marking the center

To achieve a symmetric installation, determine the layout of the first panel, starting at the center of the structure. Measure the structure's width, to determine using odd or even number of the prepared panels i.e. centering a panel or an alu joiner. Accordingly, make a mark on the sill flashing indicating the location of the middle panel or middle pair of panels.

D ▪ Alu joiner C end cap fixing

At ground level, fix the end caps to both ends of each alu joiner C profile. Use the provided screws (4 per end cap).

D ▪ Pre-drill alu joiner C profiles

At ground level, drill 6.5mm (0.25") holes at 300mm on centers along the entire length of the alu joiner C. Use the marking along the profile for hole location guidance. First and last hole to be 50mm (2") from the joiner edge.

E ▪ Fix alu joiner C to structure

Based on your decision in step 5, set the first alu joiner C in place and fix it to every girt with standard angle profiles and self-drilling screws – minimum 4 screws per connection (two from each side of the alu joiner C) - note that the angles and screws are not part of the Sunpal system.

Make sure the aluminum joiners are installed correctly according to the specification. (Vertical/plumb) at the correct fixing centers, 1000mm (Sunpal 18 or Sunpal 20) and 600mm (Sunpal 8 or Sunpal 10), it is highly recommended that you use spacer rod to achieve accurate installation.

F ▪ Remove inner masking

Remove the protective film from the internal face only (between the upstands). Keep this side away from the supportive structure until final positioning of the panel, to avoid scratching.

G ▪ Panel installation

Set the panel with the upstand facing inwards resting on the bottom end cap of the alu joiner C. Hook one side of the panel into the alu joiner C and then snap the other side into the alu joiner C using a rubber mallet. Do not hit the panel directly. Use a piece of wood with cloth between it and the sheet to stop/ reduce the risk on marking or damaging the sheets when locking them into place.

Edge panel preparation

Measure the distance from the center of the last alu joiner C to the structure's edge. On ground level, longitudinally cut the panel 5mm narrower and then insert the side F profile along the entire length of the edge panel.

Determine width of end panels required.

Using a circular saw (fitted with fine tooth blade) or jigsaw cut the external side panels to width.

H ▪ Edge panel installation

Set the panel with the upstand resting on the bottom end cap of the alu joiner C. Snap the sheet into the alu joiner C using a rubber mallet. Do not hit the panel directly. Use a piece of wood to disperse the impact. After the edge panel is fully snapped, fix the F Profile to the structure edge. Alu F profile can be fitted to the sub structure either with the return leg internally or externally.

I ▪ Fix alu sealing strip

Along the panel bottom end by pushing it on. It is designed to be a tight fit, so start by pushing one end on. Using a mallet slowly tap it until it is firmly inserted. These sealing strips are necessary to prevent penetration of dirt and moisture.

J ▪ Fix alu or polycarbonate U profile

At the panel top end by pushing it on. It is designed to be a tight fit, so start by pushing one end on. Using a mallet slowly tap it until it is firmly inserted. These U profiles are necessary to prevent penetration of dirt and moisture.

K ▪ Remove outer masking

Shortly after installation is completed, peel off the protective film from the panel's external face. Delaying removal of the protective film can make it very difficult to peel it off later. On exceptionally hot days, remove the protective film immediately to prevent it from bonding with the panel.

L ▪ Fix M6 bolts

After installation is completed, fix the M6 bolts at the holes drilled in stage D. Use the provided bolts, nuts and washers.

Install top and side flashings

After sheet installation is complete, install the top and side flashing to the perimeter of the system to ensure watertight connection along the structure's perimeter. Note that these flashings are not part of the Sunpal system.

Notes:

- SUNPAL system does not require using silicones or adhesives for parts interface. For sealing of flashing assemblies use only PALRAM approved accessories, silicones, sealing tape, closure fixtures etc.
- For cleaning SUNPAL panels use a pressure cleaner and allow natural drying. Do not use cloth/ sponge/ chamois or similar, doing this can scratch the panels and harm their performance.



Typical Installation Details

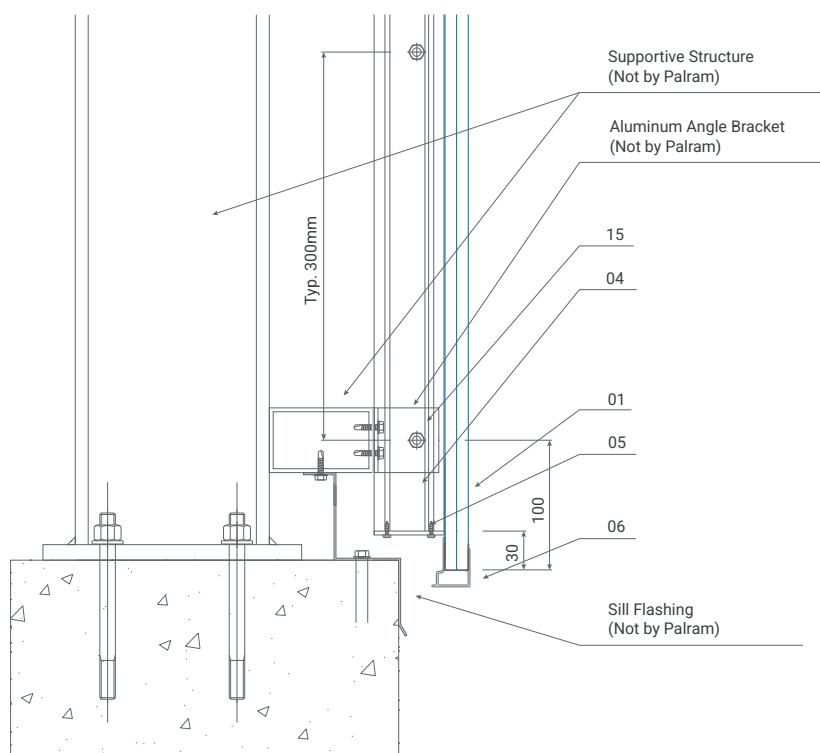
Please note: All drawings are available as CAD files from www.palram.com.

01	Panel	06	Aluminum Sealing Strip	11	Aluminum F-Profile
02	Polycarbonate Joiner	07	Polycarbonate U-Profile	12	Metal Screw
03	End-Cap for Polycarbonate Joiner	08	T-Fastener	13	Wood Screw
04	Aluminum Joiner 'C'	09	T-Stopper	14	Aluminum U-Profile
05	End-Cap for Aluminum Joiner 'C'	10	Aluminum Span-Bar		

Cladding Details

Cladding Detail 1

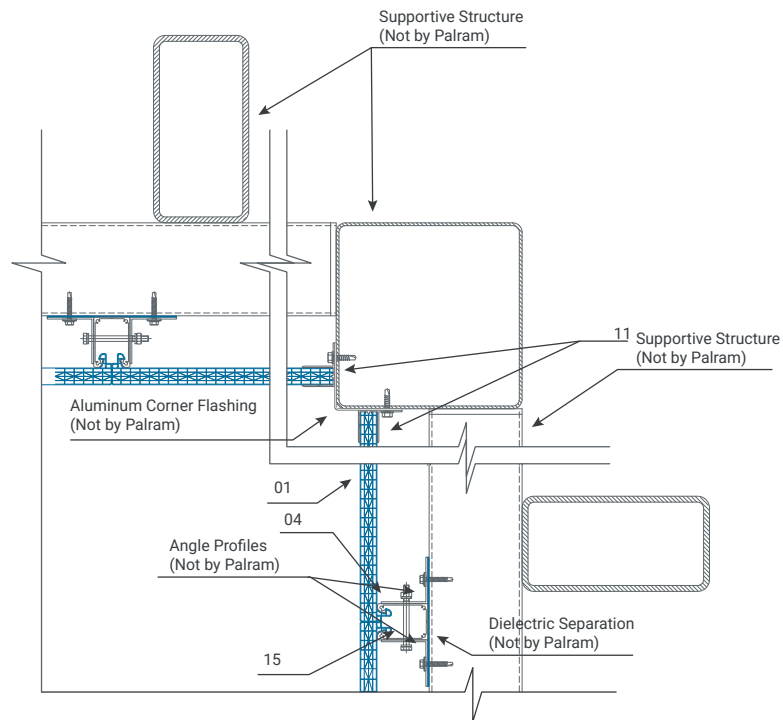
Cladding Base - Hidden Seams



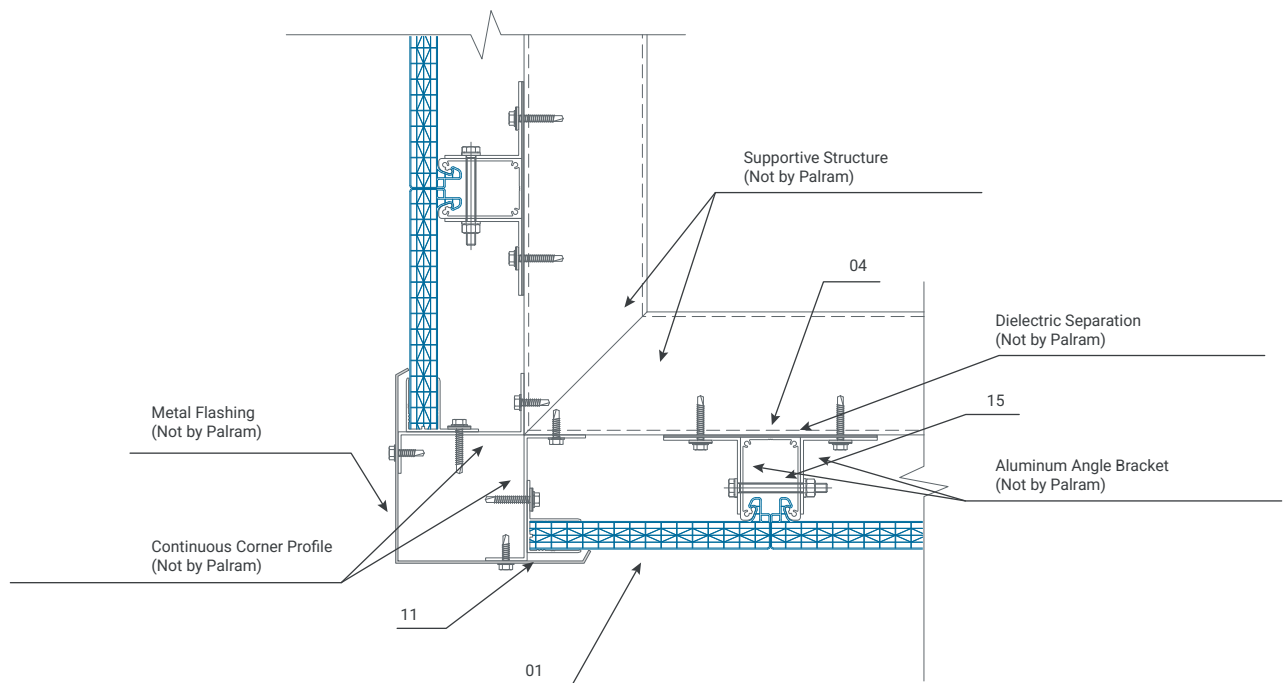
Cladding Detail 2

Corner Details

Inside corner



Outside corner

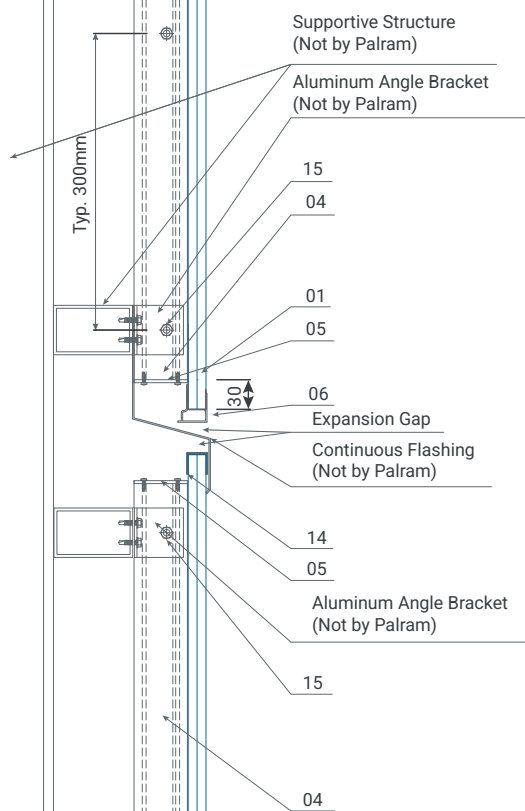


01 - Panel | 02 - Polycarbonate Joiner | 03 - End-Cap for Polycarbonate Joiner | 04 - Aluminum Joiner 'C' | 05 - End-Cap for Aluminum Joiner 'C' | 06 - Aluminum Sealing Strip | 07 - Polycarbonate U-Profile | 08 - T-Fastener | 09 - T-Stopper | 10 - Aluminum Span-Bar | 11 - Aluminum F-Profile | 12 - Metal Screw | 13 - Wood Screw | 14 - Aluminum U-Profile



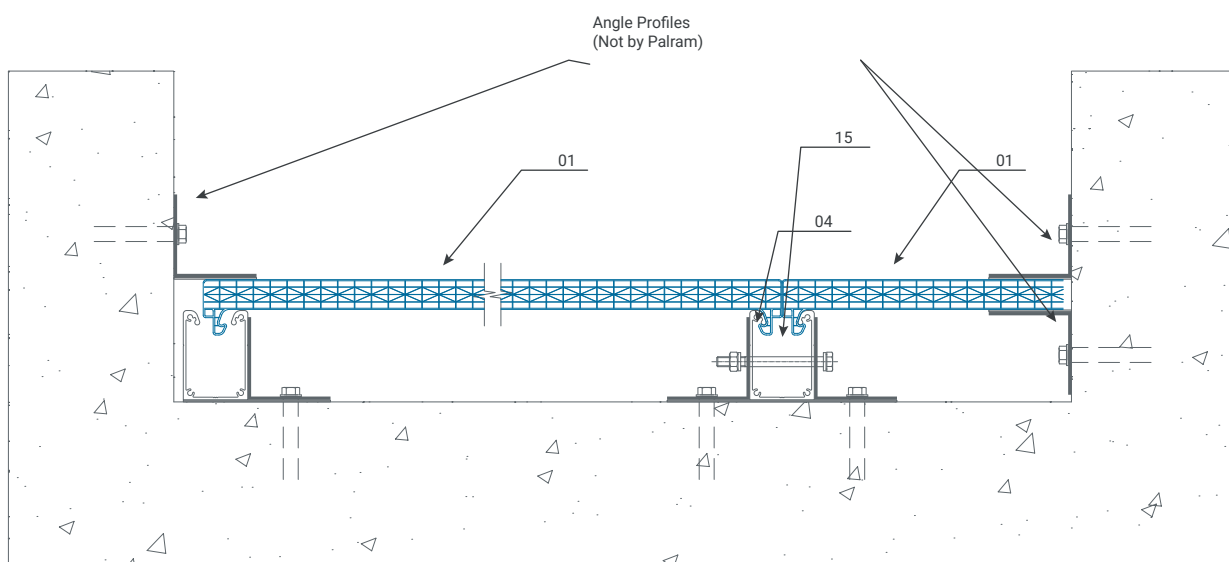
Cladding Detail 3

Panels Cladding Joint



Cladding Detail 4

Parallel Apron Flashings - Hidden Seams



01 - Panel | 02 - Polycarbonate Joiner | 03 - End-Cap for Polycarbonate Joiner | 04 - Aluminum Joiner 'C' | 05 - End-Cap for Aluminum Joiner 'C' | 06 - Aluminum Sealing Strip | 07 - Polycarbonate U-Profile | 08 - T-Fastener | 09 - T-Stopper | 10 - Aluminum Span-Bar | 11 - Aluminum F-Profile | 12 - Metal Screw | 13 - Wood Screw | 14 - Aluminum U-Profile

Manufacturer's Lifetime Warranty

SUNPAL panels are guaranteed for water leak-proof performance for 25 years. SUNPAL panels bear a limited lifetime warranty not to lose more than 8% of light transmission for 15 years and no more than 1% per year thereafter, when measured according to ASTM D1003-77. SUNPAL panels are warranted for up to 10 years from the date of purchase not to break or fail as a result of impact by hail measuring up to 20 mm in diameter, in speed of up to 21 m/s. For detailed warranty terms please see Palram's website.

Please note: Warranties apply only if the panels are installed and maintained according to Palram specifications and installation instructions.

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