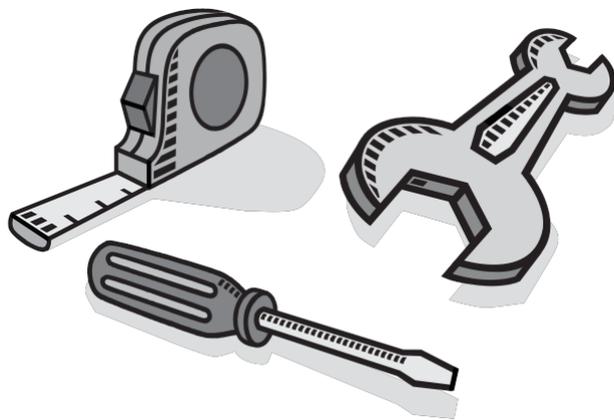
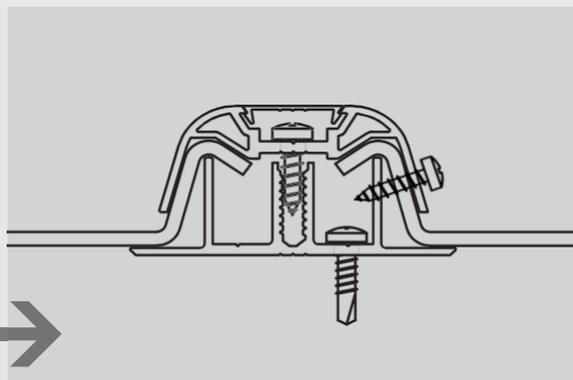
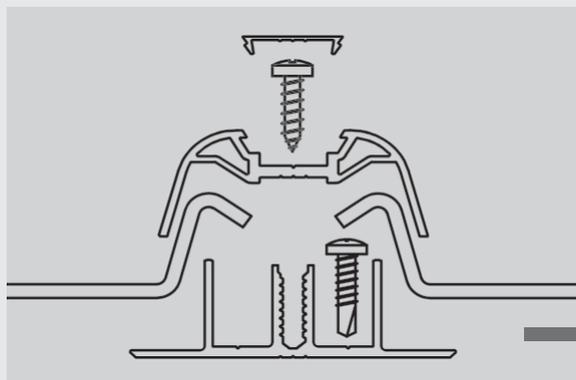


# SUNGLAZE™

Solid Polycarbonate  
Standing-Seam  
Architectural System



## Installation Instructions



SUNGLAZE is a self fastening system, based on PALSUN solid polycarbonate sheets. The panels join together by a simple set of aluminum profiles, which are enclosed at the ends by End-closures. Screws lock the system and fix it to the structure, without any penetration through the panels. The Cap-plug completes the assembly, covers the screw head and provides a smooth surface.

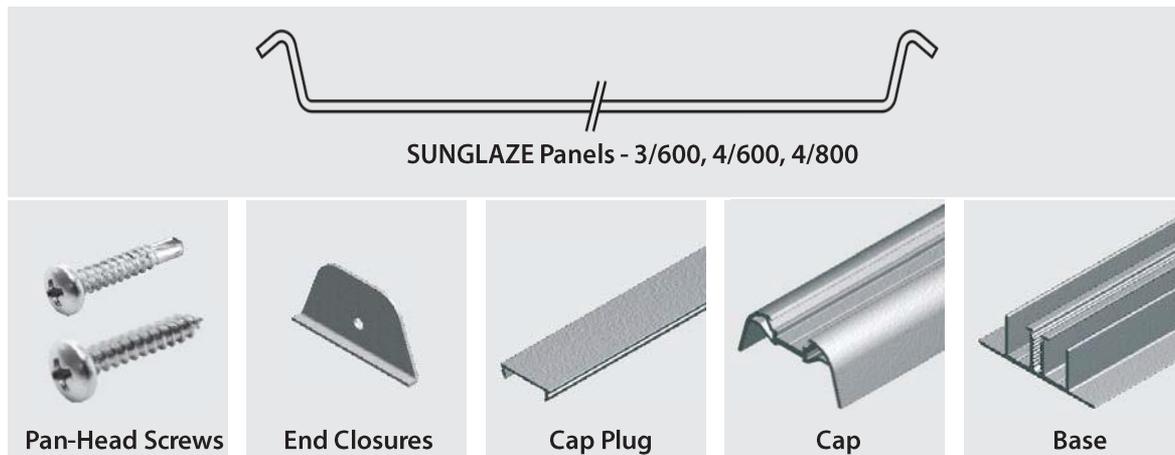
This booklet contains general SUNGLAZE installation guidelines only.  
For complete and extensive information please refer to the SUNGLAZE Technical Guide.



Creating New Solutions for over 40 Years

## System components

SUNGLAZE panel type is defined by the rafter center-to-center spans and the loading requirements. Other system components fit all panel types.



## Roof structure

SUNGLAZE system is designed for both rafter and purlin construction options. Recommended minimum roof slope for Sunglaze applications is 5°. Where lower slopes are necessary, we recommend rafter construction.

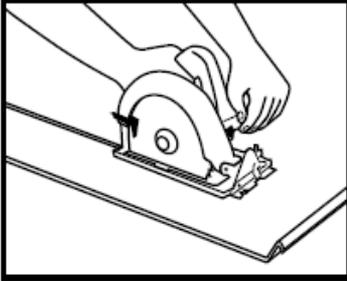
*In case of metal rafters, thermal isolation is required between the rafters and the Alu base profile. This is usually obtained by inserting EPDM stripes between rafters and profiles.*

## Recommended Spans for Rafter and Purlin Design

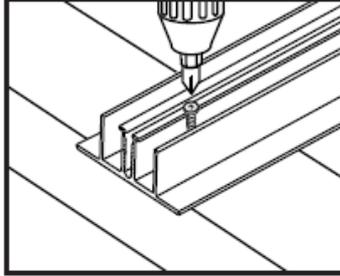
Type	Rafter Centers	Multi-Span								
		Single Span (mm)			Mid-Span (mm)			End-Span (mm)		
		75kg/m <sup>2</sup>	100kg/m <sup>2</sup>	125kg/m <sup>2</sup>	75kg/m <sup>2</sup>	100kg/m <sup>2</sup>	125kg/m <sup>2</sup>	75kg/m <sup>2</sup>	100kg/m <sup>2</sup>	125kg/m <sup>2</sup>
3/600	600	900	820	760	1540	1400	1300	1210	1100	1020
4/600	600	900	820	760	1540	1400	1300	1210	1100	1020
4/800	800	820	745	690	1400	1275	1180	1100	1000	925

# Installation

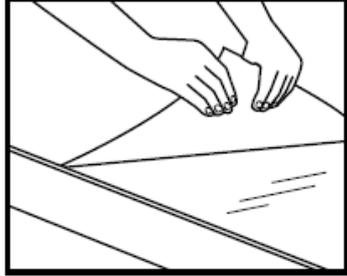
**1** Cut to size



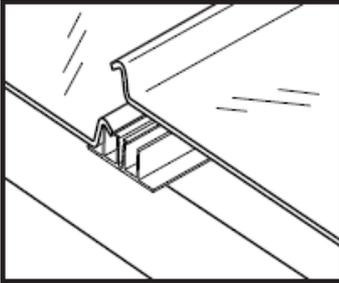
**2** Fix base



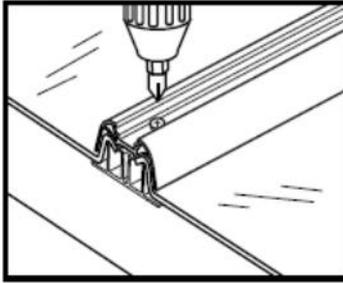
**3** Remove inner masking



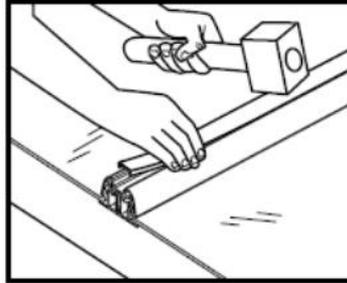
**4** Position the Panels



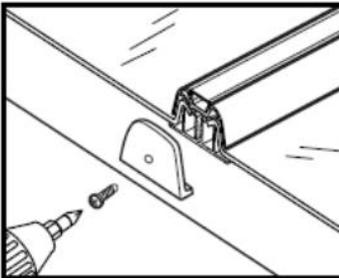
**5** Fix Cap



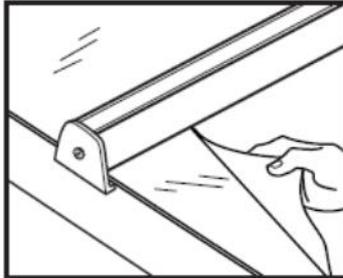
**6** Assemble Cap Plug



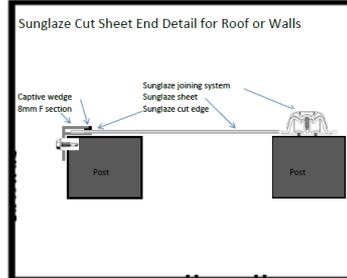
**7** Fix End Cap



**8** Remove outer masking



**9** Install side flashings



### 1. Cut to size (Fig. 1)

Cut Aluminium profiles to length, allowing for overhangs of up to 100mm at each end. An overhang of minimum 50mm over the gutter is recommended. Cut panels to length, 20mm shorter than Aluminium profiles for expansion allowance. Use a circular saw or hand saw with fine tooth blades and a moderate feeding rate to ensure a smooth cut.

### 2. Fix Base profile (Fig. 2)

Set the first Base profile at the center of the supporting structure, and fix it to the structure using the provided fixing screws. Fix screw at each purlin or by the recommended span on a rafter. (It is recommended to position screws on each base side alternately).

### 3. Remove inner masking foil (Fig. 3)

Remove protective foil from the panel's internal face only. To avoid scratching, keep this side away from the roof purlins until the Panel is finally positioned.

### 4. Position Panels (Fig. 4)

Position the first Panel onto the two Base profiles. Make sure the Panel is correctly seated along their whole length.

### 5. Lock Cap (Fig. 5)

Position Cap onto the Base and Panels edges. Pre-drill 5mm holes along the positioning groove every 25cm (it is recommended to perform pre-drilling in advance on the ground). Fix the Cap with locking screws through the pre-drilled holes and into the Base profile. (It is recommended to position 2 screws at 50mm apart to the start and finish of each cap)

### 6. Expansion locking screw

Drill a #11(.1910 inch) hole through the side of the cap, sheet and base outer upright. Screw through this hole, in the cap and sheet and into the base to prevent creeping during expansion and contraction (This locking screw should be located at the gutter line or under the ridge flashing. Sheets over 5.0m should have this screw through both sides of the cap)

### 7. Insert Cap Plug (Fig. 6)

Click Cap Plug into place on the Cap using a rubber mallet or your fist, performing moderate strikes with short intervals. (Use dabs of silicone, under the cap @ approximately 200mm centres to prevent possible dislodgement).

### 8. Fix End Closure (Fig. 7)

Fix End Closure at the bottom end of the Aluminium profiles (gutter end).

### 9. Remove outer masking foil (Fig. 8)

Remove the protective foil from the Panel's external face shortly after installation.

Delaying foil removal can make it very difficult to remove later (on hot days remove top protective film immediately after installation to prevent film from bonding to the panel).

### 10. Fix next Base

Position the next Base to meet the first Panel edge. Make sure the edge is at the correct length when in place. Fix screw at each purlin or by the recommended span on a rafter.

(It is recommended to locate screws on each base side alternately. Starting and finishing approximately 50mm from each end).

### 11. Repeat stages 3 to 9.

### 12. Cut side panels to size

Determine width of the required side panels and cut to size. Use a circular saw or hand saw with fine tooth blades and moderate feeding rate for easier and better cutting.

### 13. Side Flashings (Fig. 9)

Insert the cut edge of the Sunglaze sheet between the gap in the F section. The leg of the F section to be neat against the barge fascia and fastened there to. Insert the captive wedge to the upper side of the Sunglaze sheet and the underside of the upper portion of the F section. This is to hold it firm and seal it from the weather.

SUNGLAZE system does not require the use of silicones or adhesives for parts interface.

For sealing of flashing assemblies use only PALRAM approved accessories, silicones, sealing tape, closure fixtures etc.

For cleaning SUNGLAZE panels use water pressure cleaner and allow natural drying. Do not use cloth/ sponge/ chamois or similar, doing this can scratch the panels and harm their performance.



**Note:**



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