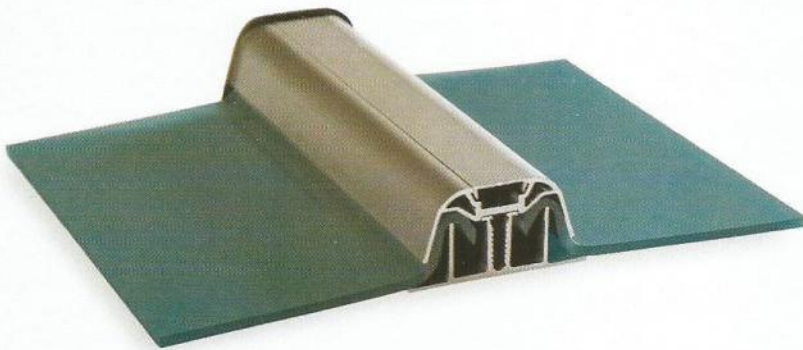


# SUNGLAZE®

## SOLID MODULAR DAYLIGHT SYSTEM



### Overview

Sunglaze is an architectural system that offers smart design, elegant appearance, versatility, low maintenance and sustainable performance to various architectural challenges. Sunglaze incorporates proprietary standing-seam profiling and glazing that enable wide spans and high loading capacity. It can be specified in various lengths to match different structures, including flat and curved designs. Sunglaze is easy to fasten; the panels are simply joined by an aluminum profile set that is 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, covering the screw head and provides a smooth appearance from above.

### Main Benefits

- Clear and elegant appearance
- Standing seam leak-proof performance
- Free thermal expansion
- Caulking and silicone free
- Withstanding high loads
- Easy, fast and safe installation
- Minimal maintenance

### Typical Applications

- Architectural projects
- Commercial and retail
- Sports venues roofing
- Covered walkways
- Open markets
- Service stations
- Entrances
- Pool covers



## Profiles

Sunglaze solid polycarbonate panels are offered in 3mm, 4mm and 6mm thickness. Panel width is determined by the system width, 600mm or 800mm. Maximum panel length is 11.9m (Typical stock length, equaling slightly more than 39 feet). Standard Sunglaze panels include UV protection on one side (UV protection on both sides is optional for special orders).

### 3/600

**Width:** 584mm (600mm system)  
**Height:** 20mm  
**Weight:** 3.79 Kg/m<sup>2</sup>, (2.20 Kg/m)  
**Min. cold bending radius:** 4m

### 4/600

**Width:** 585mm (600mm system)  
**Height:** 21mm  
**Weight:** 5.05 Kg/m<sup>2</sup>, (2.94 Kg/m)  
**Min. cold bending radius:** 4m

### 4/800

**Width:** 785mm (800mm system)  
**Height:** 21mm  
**Weight:** 4.98 Kg/m<sup>2</sup>, (3.90 Kg/m)  
**Min. cold bending radius:** 4m

### 6/800

**Width:** 785mm (800mm system)  
**Height:** 21mm  
**Weight:** 7.453 Kg/m<sup>2</sup>, (5.96 Kg/m)  
**Min. cold bending radius:** 4m

## Typical Physical Properties

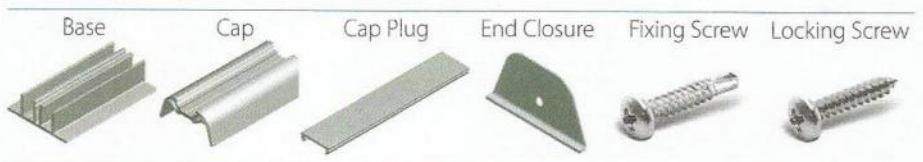
Property	Method**	Conditions	Units	Value
<b>Mechanical</b>				
Density	D-792		g/cm <sup>3</sup>	1.2
Tensile modulus of elasticity	D-638	1 mm/min	Mpa	2,300
Flexural strength	D-790	1 mm/min	Mpa	93
Flexural modulus	D-790	1.3 mm/min	Mpa	2,600
Notched impact strength Izod	D-256	23°C	J/m	800
Impact falling dart	ISO 6603/1d	3mm	J	158
Impact - fall through	E-695		m/kg	336
Charpy Impact after Xenon Arc Exposure (D-6110)	D-2565-08	3000 hrs	% Loss of Impact Strength	<10
<b>Thermal</b>				
HDT (Heat Deflection Temperature)	D-648	Load: 1.82Mpa	°C	135
Vicat softening temperature	D-1525	Load: 1kg	°C	150
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 <sup>-5</sup>
Thermal conductivity	C-177		W/m °K	0.21
Specific heat capacity	C-351		kJ/kg °K	1.3
<b>Weathering</b>				
Color change	D-2244	60 months	ΔE	<3
Yellowing index	E-313	60 months	Δ Yellowness Index	<10
Light transmission	D-1003	10 years	%	<6
<b>Leakage / Structural</b>				
Water leakage	E-283	20 psf		none
Air leakage	E-331	6.24 pfs (Condition of air leakage test)	cfm/ft <sup>2</sup>	0.05
Uniform load	E-330		psf	+140 / -45

\*Properties in the table relate to the polycarbonate glazing panels in the Sunglaze system. \*\*ASTM method except where noted otherwise. \*\*\* All tests results are pending sheet thickness

## Colors

□ Clear, ■ Bronze, □ White Opal, □ White Diffuser, □ Solar Ice, ■ Grey ■ Solar Control, ■ Solar Olympic, ■ Smart Green, ■ Smart Blue, ■ Bluish Breez

## System Components



Scan for Video

