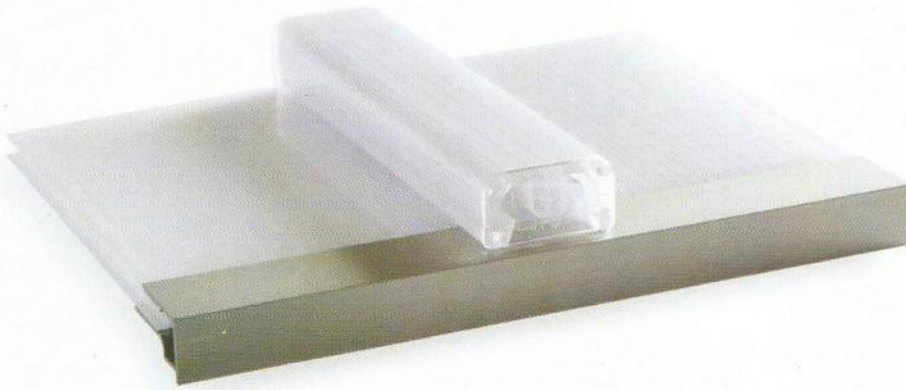


SUNPAL®

MULTIWALL MODULAR DAYLIGHT SYSTEM



100 %
Leak Proof

Solar Smart -
Heat Block

Overview

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 roofing and cladding designs, flat or curved.

Main Benefits

- Withstands very high loads
- Accommodates expansion & contraction
- Simple & fast installation
- Leak-proof
- High thermal insulation
- Ideal for curved designs
- Double sided UV protection
- SolarSmart™ cool light colors

Typical Applications

- Architectural roofing & glazing
- Commercial and retail roofing
- Sport facilities - translucent roofing
- Covered walkways, awnings & entrances
- Open markets - light roofing
- Service stations - translucent roofing
- Parking structure covering
- Swimming pool covers

Profiles

SUNPAL panels are of multiwall structure, available in thicknesses of 8mm, 10mm, 18mm and 20mm. Standard SUNPAL panels have UV protection on both sides, although panels with UV protection on one side only can be produced on special orders. Maximum panel length is 11.99m (typical stock length).

10/600

Width: 600mm

Height: 25.5mm

Height with PC Joiner: 33mm

Weight: 1.56 Kg/m, 2.60 Kg/m²

Min. cold bending radius: 2.4m

18/1000

Width: 1000mm

Height: 33.5mm

Height with PC Joiner: 41mm

Weight: 3.11 Kg/m, 3.11 Kg/m²

Min. cold bending radius: 3.0m

20/1000

Width: 1000mm

Height: 35.5mm

Height with PC Joiner: 43mm

Weight: 3.19 Kg/m, 3.19 Kg/m²

Min. cold bending radius: 3.0m

Scan for Video



Flammability

SUNPAL flammability classification appears in the attached table, based on a test performed by certified independent laboratories. The quoted certificate represents the flammability performance of the entire system.

Standard	*Classification
EN 13501	B, s1, d0

Thermal Insulation

Type	U-Value [Watts /m ² .°C]	R-Value [m ² .°C / Watt]
SUNPAL 10 mm	2.10	0.47
SUNPAL 18/20 mm	1.50	0.67

Typical Physical Properties

Property	*Method	Conditions	Units	Value
Density	D-792		g/cm ³	1.2
Heat deflection temperature (H.D.T)	D-648	Load: 1.82 MPa	°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

Colors

☐ Clear, ■ Bronze, ☐ White Opal, ☐ White Ice, ☐ Solar Ice, ■ Solar Control
■ Grey, ■ Green, ■ Blue, ■ Red And more.

System Components

