

# SUNPAL® POLYCARBONATE GLAZING SYSTEM Data Sheet

Our Sunpal® polycarbonate glazing systems are designed to cover your large or small projects with a high-quality, robust roof system.

Featuring multi-wall polycarbonate panels and aluminium glazing bars, this duo really is the perfect roof system for your project.

## Weather Protection:



UV



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## Features:

|                      |  |
|----------------------|--|
| <b>Suitable for:</b> | Education   Hospitality   Leisure   Retail   Commercial   Healthcare     |
| <b>Maintenance:</b>  | Requires only periodic cleaning  |
| <b>Availability:</b> | The polycarbonate glazing system can be added to your existing structure |

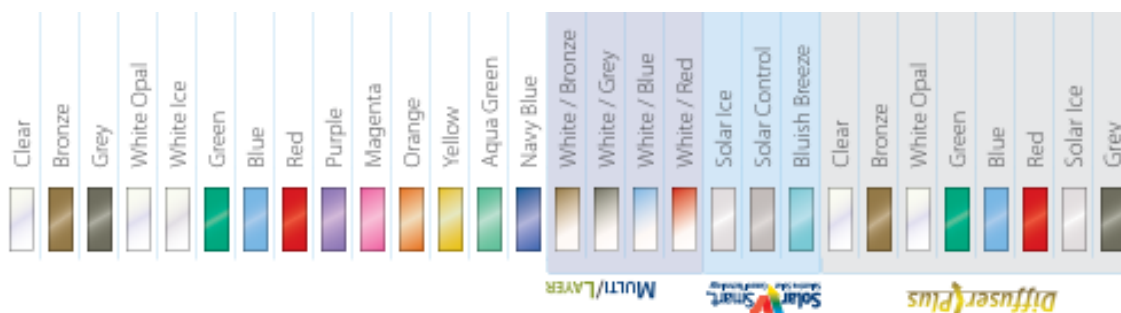
## Specifications:

|                               |   |
|-------------------------------|---|
| <b>Panel Material:</b>        | Available in a choice of 8mm, 10mm, 18mm and 20mm thick multiwall polycarbonate   |
| <b>Frame Material:</b>        | The roof bars are constructed from aluminium  |
| <b>UV Protection:</b>         | Up to 99.9%   The roof panels will not turn yellow over time due to UV degradation  |
| <b>Light Transmission:</b>    | 20% - 90% depending on the polycarbonate colour chosen  |
| <b>Strength:</b>              | 250 times the impact strength of glass and 30 times the impact resistance of acrylic  |
| <b>Colour Options:</b>        | The polycarbonate is available in 29 colours  |
| <b>Thermal Transmittance:</b> | The polycarbonate sheet provides a thermally insulating glazing solution, achieving U-values 2.45 to 1.50 Watts/m <sup>2</sup> .°C depending on the thickness |

## International Standards:

|                         |  |
|-------------------------|--|
| <b>Fire Ratings:</b>    | The polycarbonate sheets achieve European standard EN 13501 B, s1, d0 (dependant on the panel thickness)     |
| <b>Strength Tests:</b>  | The panels have a tensile strength at yield of D-638 with conditions of 10 mm/min MPa 62                     |
| <b>CE Marked:</b>       | Yes  |
| <b>Quality Assured:</b> | Tested and warranted systems manufactured to ISO 9001:2000 quality standard ensures high product performance |

## Polycarbonate Colour Options:



## Technical Files Available:

|               |   |
|---------------|---|
| PDF CAD File  | × |
| DXF CAD File  | × |
| IGES CAD File | × |
| STL CAD File  | × |
| BIM File      | × |
| NBS Spec      | × |

| Type                  | Panel Data   | Drawing |
|-----------------------|--|---------|
| SUNPAL®<br>8/600 Lite | Width: 600mm<br>Height: 23.5mm<br>Height with Polycarbonate Joiner: 31mm<br>Weight: 1.11 Kg/m, 1.83 Kg/m²<br>Min. cold bending radius: 2.0m  |         |
| SUNPAL®<br>8/600      | Width: 600mm<br>Height: 23.5mm<br>Height with Polycarbonate Joiner: 31mm<br>Weight: 1.24 Kg/m, 2.00 Kg/m²<br>Min. cold bending radius: 2.0m  |         |
| SUNPAL®<br>10/600     | Width: 600mm<br>Height: 25.5mm<br>Height with Polycarbonate Joiner: 33mm<br>Weight: 1.56 Kg/m, 2.60 Kg/m²<br>Min. cold bending radius: 2.4m  |         |
| SUNPAL®<br>18/1000    | Width: 1000mm<br>Height: 33.5mm<br>Height with Polycarbonate Joiner: 41mm<br>Weight: 3.11 Kg/m, 3.11 Kg/m²<br>Min. cold bending radius: 3.0m |         |
| SUNPAL®<br>20/1000    | Width: 1000mm<br>Height: 35.5mm<br>Height with Polycarbonate Joiner: 43mm<br>Weight: 3.19 Kg/m, 3.19 Kg/m²<br>Min. cold bending radius: 3.0m |         |



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