

 **Macrolux**[®]

ATHERMIC BI-COLOR

MULTIWALL POLYCARBONATE PANEL



MACROLUX® ATHERMIC BI-COLOR POLYCARBONATE PANEL

MACROLUX® ATHERMIC polycarbonate sheet reduces solar energy transmission and excessive heat build-up.

The revolutionary ATHERMIC is a special reflective finish which is co-extruded into the upper surface of the Macrolux multiwall polycarbonate sheet. To further reduce internal glare, the underside is in an opal finish which also gives it a bright internal appearance.

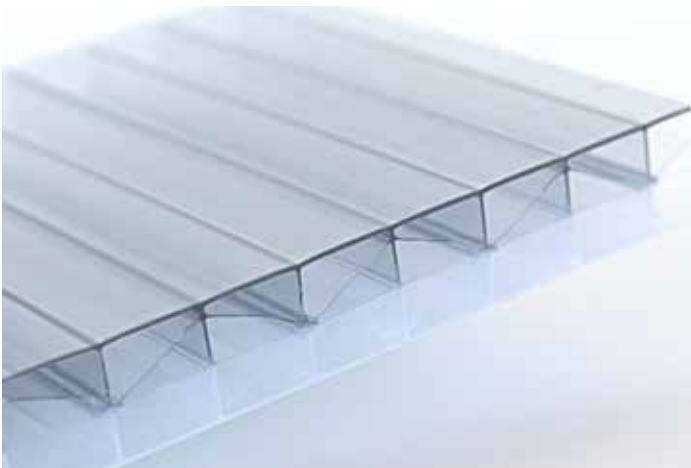
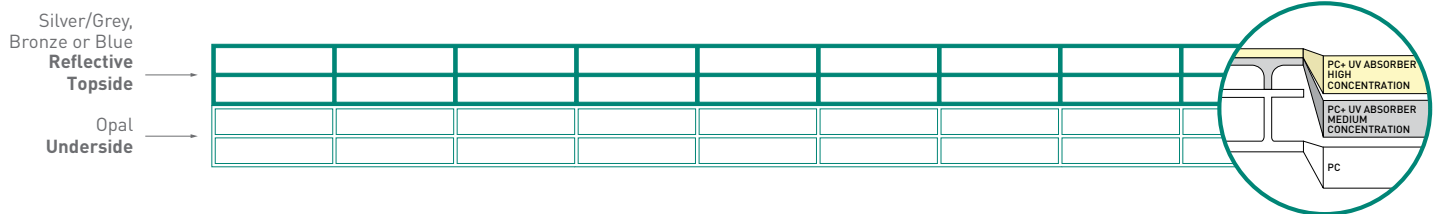
Conservatories, especially those with clear roofs, such as greenhouses, pool enclosures, industrial buildings and shopping centers, experience an excessive heat build-up not only in the height of the summer but whenever the sun is out. Existing methods to reduce or counteract this heat buildup are limited to installing roof vents and/or blinds – options which can potentially exceed a customer's budget and in many instances detract from the beauty of the conservatory.



MACROLUX ATHERMIC has been independently tested by the TNO Center in The Netherlands and comparison made with standard 16 mm triple wall polycarbonate sheet. The independent tests confirm that by utilizing MACROLUX ATHERMIC the total heat/solar energy transmission penetrating through the sheet can be reduced by as much as 35%.

Macrolux Bronze/Opal is a high performance 2 in 1 polycarbonate sheet. This product is supplied as a two-tone sheet (bronze/opal) with the bronze side to face outwards towards the sun and opal (white) to face inwards. When installed, this provides a brighter internal appearance even on an overcast day and gives far greater privacy over traditional glazing materials.

Dual Extrusion Structured Sheet



Advantages



Full Range Of Products

Macrolux Athermic is available on the extensive range of Macrolux products including Triple Wall, Five-wall, "M" Wall Series and "X" Structured Series.



Resistance To Breakage

Although light in weight, all Macrolux polycarbonate sheets are approximately 200 times stronger than glass and virtually unbreakable when subjected to heavy storms, hailstones or ice and snow.



Resistance To Weathering

Macrolux Athermic has a UV absorber coextruded onto the outer surface of the sheet. This forms a barrier against UV radiation, and ensures exceptional resistance to ageing without affecting the sheets mechanical properties or impact strength.



Excellent Fire Performance

Macrolux Athermic is classified as selfextinguishing, does not emit poisonous toxic gasses and complies with most standards.



Excellent barrier to UV rays.



Aesthetically pleasing colors.



10 year warranty.



Helps retain greater privacy.



Eliminates the need for expensive blinds.



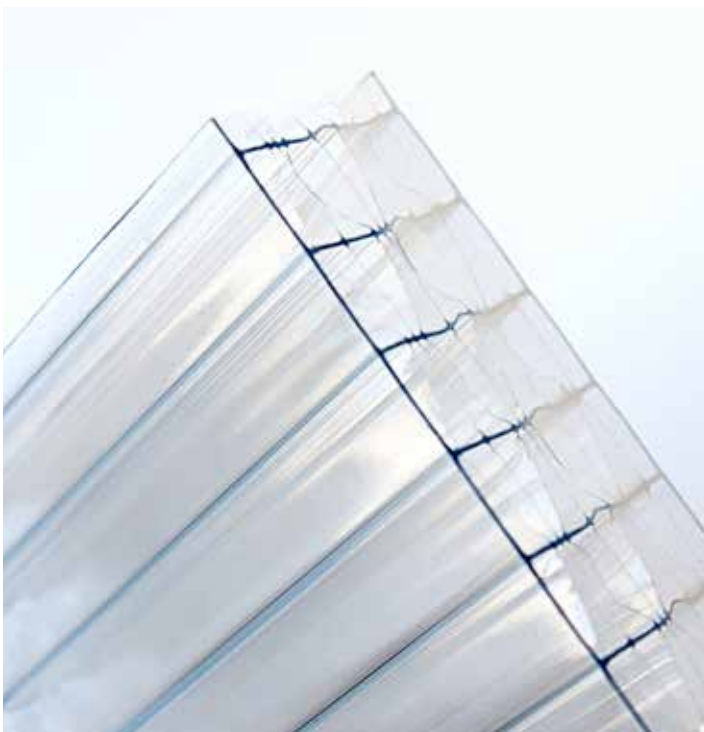
Gives a bright internal appearance.

Technical Data (Grey/Opal and Brz./Opal)

SHEET THICKNESS (mm)	16mm	25mm	40mm
Structure	5 Wall	5 Wall	"X" Wall
Approx Weight (sq.ft.)	0.552	0.674	0.880
Light transmission (%)	25%	20%	N/A
U-Value	0.335	0.282	0.176
R-Value (1/u)	2.98	3.55	5.68

Comparative table for protection against internal temperature increase

SHEET	LONG LIFE TRANSPARENT	ATHERMIC
Macrolux 16mm Triple Wall	14.6%	37%
Macrolux 25mm Five Wall	13.1%	33.8%
Macrolux 32mm "M" Structure	9.2%	29.2%





This information and our product application recommendations are illustrative and must be verified for each project. The pictures presented are merely illustrative.

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