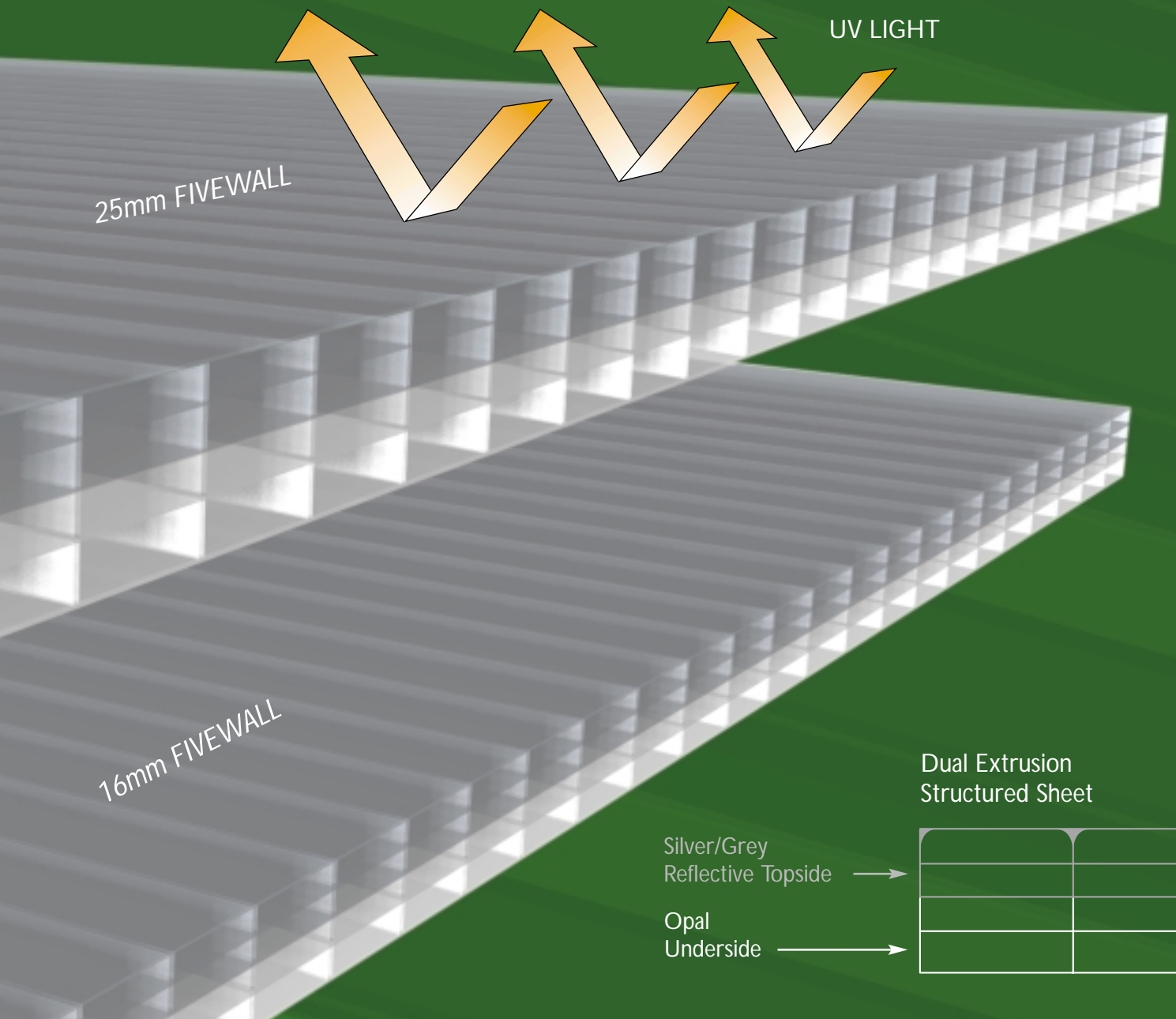




REFLECTIVE, HEAT CONTROL  
POLYCARBONATE SHEET

# ATHERMIC HEATSHIELD

ATHERMIC HEATSHIELD



## WHY MACROLUX 'ATHERMIC HEATSHIELD' ?

We are now experiencing some of the warmest summers on record which are expected to continue and increase in the future. Macrolux have developed a new technologically advanced - Polycarbonate sheet to reduce excessive heat build up in conservatories and delay the time for achieving the maximum temperature.

## REDUCES SOLAR ENERGY TRANSMISSION AND HEAT BUILD UP

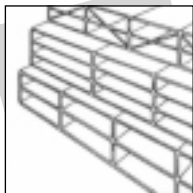
The revolutionary Macrolux 'ATHERMIC HEATSHIELD' is a special reflective finish which is co-extruded into the upper surface of Macrolux Multiwall polycarbonate sheets. To further reduce internal glare, the underside is Opal finish and also gives a bright internal appearance. Conservatories, especially those with clear roofs experience an excessive heat build up and 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 HEATSHIELD has been independently tested by TNO Centre, Netherlands and comparisons made with standard 16mm triplewall polycarbonate sheets. These independent tests confirm that by utilising ATHERMIC HEATSHIELD the total heat/solar energy transmission penetrating through the sheet can be significantly reduced.

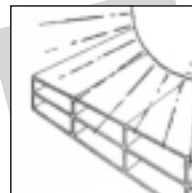
### COMPARATIVE TABLE for protection against internal temperature increase

Sheet	Long Life Transparent	Athermic Heatshield
Macrolux 10mm Twin Wall	9.2%	31.0%
Macrolux 16mm Triple Wall	14.6%	37.0%
Macrolux 25mm Five Wall	13.1%	33.8%
Macrolux 32mm 'M' Structure	9.2%	29.2%



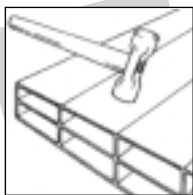
## FULL RANGE OF PRODUCTS

ATHERMIC HEATSHIELD is available on the extensive range of Macrolux products (up to 2100 mm wide) including Twinwall, Triplewall and the new 5 Wall, 'M' Structure and 'X' Structure Range.



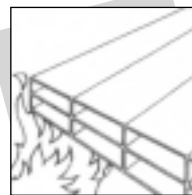
## RESISTANCE TO WEATHERING

Macrolux ATHERMIC HEATSHIELD has a UV absorber co-extruded onto the outer surface of the sheet. This forms a barrier against UV radiation, and ensures exceptional resistance to ageing without affecting the sheet's mechanical properties or impact strength.



## RESISTANCE TO BREAKAGE

Although light in weight all Macrolux polycarbonate sheet is approx 200 times stronger than glass and virtually unbreakable when subjected to heavy storms, hailstones or falls of ice and snow.



## EXCELLENT FIRE PERFORMANCE

Macrolux ATHERMIC HEATSHIELD is classed as self-extinguishing, does not emit poisonous toxic gasses and complies with most European standards, including a Class 1 fire rating to BS476 part 7 and BS476 part 6 and can be recommended for use as a Class 'O' building material.

## TECHNICAL INFORMATION

Sheet Thickness (mm)	16	25	40
Structure	5wall	5 wall	'X' wall
Approx. Weight kg/sqm	2.8	3.4	4.0
K Value w/m <sup>2</sup> k	1.9	1.6	1.4
Light Transmission	30%	25%	22%

Available from