

## Solar control to defeat the heat

The control of the temperature and the management of heat are essential elements in maintaining a desired level of comfort within buildings. They are also critical elements for cost control and to maximize energy savings.

The products of the IR line absorb the part of the light relative to the infra-red rays (from 780 to 1400nm), blocking effectively the solar heat, while letting the solar light through. The result is a reduction of the internal transmission of heat and a reduction of the cost for cooling the area. In fact all the products from the IR line can contribute to reduce the tem-

perature increase up to 25% while increasing the light transmission by up to 60% with respect to other window products. This represents a great advantage for building applications.

## The lasting warranty

All products from the line IR come with a written 10-year warranty against the reduction of its characteristics relative to light and solar transmission, turning yellow and breakage caused by hail.

All the information contained in this document is reliable, non-binding for the producer and can be subject to change without notice.

Polycarbonate  
line with filter  
of protection

# IR

how to avoid  
the heating  
effect of  
transparent  
surfaces

ED.EN 03\_14

**LIGHT&SPACE**  
ROOF SYSTEMS

official distributor in Australia for

17 The Concord - BUNDOORA 3083  
tel. +61 1 300 867 970 - fax +61 9470 8665  
web: lightandspace.com.au



**dott.gallina**

POLYCARBONATE SHEETS AND SYSTEMS

strada Carignano 104 - 10040 La Loggia (TO) Italia  
tel. +39 011 9628177 - fax +39 011 9628361  
mail: info@gallina.it - web: www.gallina.it



**dott.gallina**



## New product range

The Policarb®IR, Policomp®IR sheets and arcoPlus®IR panels let light in but not heat. They make up dott. Gallina's new product range for transparent coverings and windows with solar control. All products of the IR line offer

innovative solutions for typical building applications where high levels of light are wanted while reducing the internal heating. The potential result: reduced energy spending for cooling and for lighting.

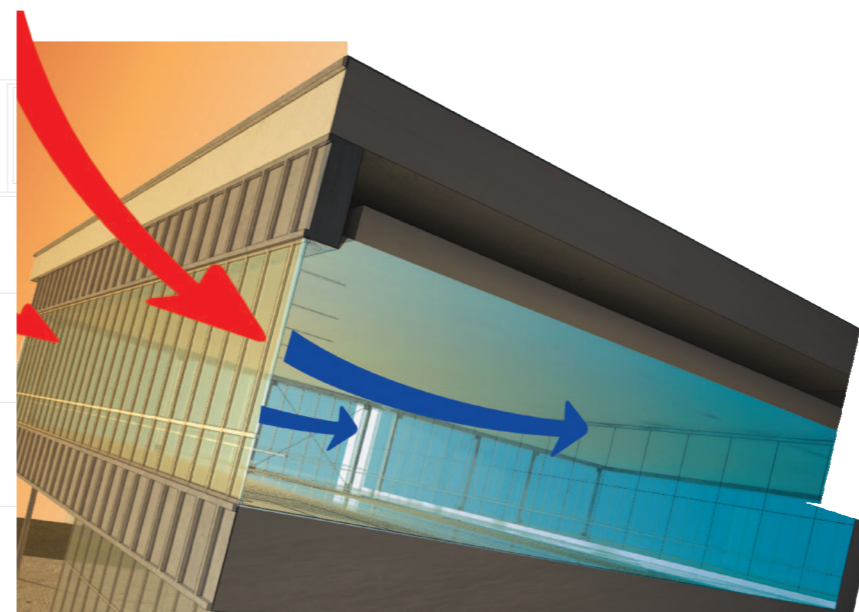


## More comfort inside without giving up the advantages of natural illumination

The new Policarb®IR sheets are available in all thicknesses and dimensions. As for the multiwall sheets, also the modular arcoPlus®IR panels offer an incredible de-

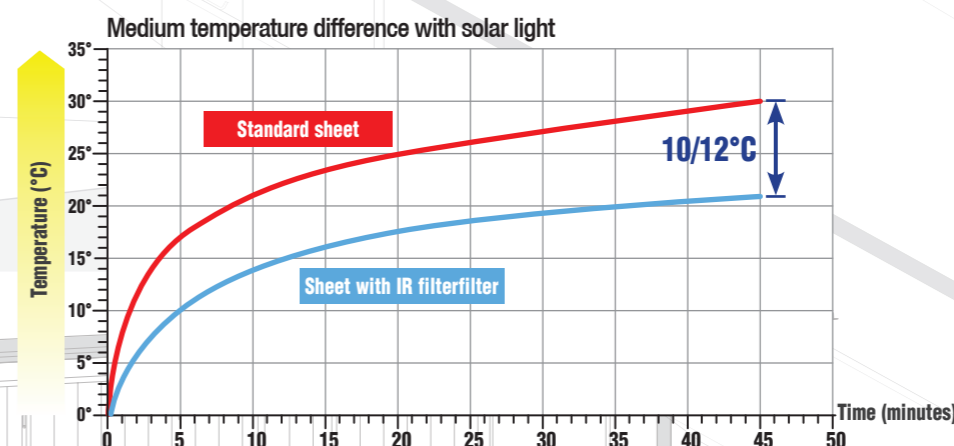
sign liberty, in applications such as skylights, tunnels, greenhouses, gazebos, thanks to the wide range of available products.

**PoliCarb®**  
**arcoPlus®**  
**PoliComp®**



## Natural protection

The heat coming from solar heating is for the most part absorbed by the external surface, treated with IR absorbers, that limits radiation to the inside of the building and the consequent heating up.



## Comparison to other products

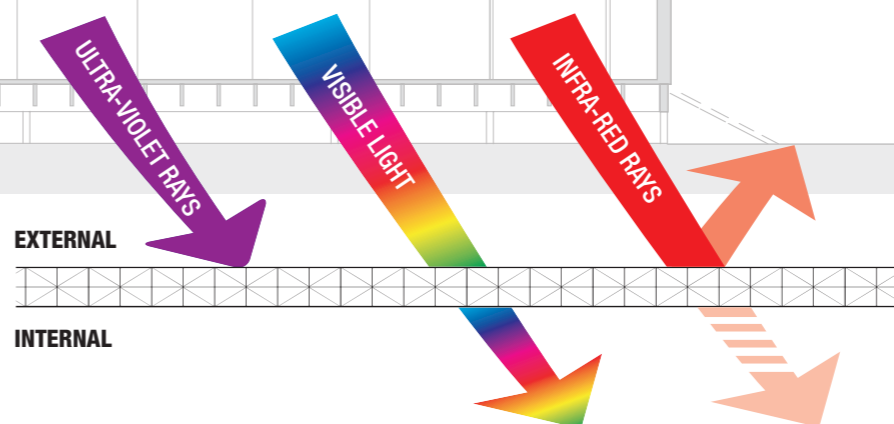
There are similar products on the market, but this new technology permits the production of products with the

filter of protection against infra-red only on the external surface, to avoid the complex heating of the elements and consequent transmission of the heating to the inside.

## Internal temperature reduction comparison

Based on the tests run, it can be evaluated that for the products used for those with a protective infra-red ray filter the internal heating can be reduced significantly.

Polycarbonate line with filter of protection  
**IR**



all products in polycarbonate by dott. gallina are UV protected and block out the harmful ultraviolet radiation.

The Policarb®IR sheets and modular arcoPlus®IR panels transmit a higher quantity of light.

The Policarb®IR sheets and modular arcoPlus®IR panels transmit to the inside less infra-red energy.

