

# Yule *Low-E Glass*

## *Plus* <sup>®</sup>

### DESCRIPTION

Low-E Glass is ordinary float glass with a microscopically thin metallic coating deposited on one of its surfaces. This coating improves the thermal performance of glass, making it the ideal choice to minimise heat loss and maximise comfort in the home.

### HOW LOW-E GLASS WORKS

Low-E stands for "low emissivity", and the basic principle of these coatings are to reduce heat emission from the room side. This means that the coating acts as a heat mirror trapping long wave radiation inside the building. This long wave radiation is created by heating systems, lighting and the building occupants themselves. The coating, however, allows the sun's heat, in the form of short wave radiation to pass into the building unrestricted. Once absorbed by the interior of any building the heat is re-radiated at longer wave lengths and reflected by the Low-E coated glass. Heat loss through the glass area can be reduced by up to 30%, thereby reducing household heating bills.

### BENEFITS

- Reduces heating costs
- Retains warmth in and keeps cold out
- Little cost addition to standard double glazing
- Looks no different to ordinary glass
- Requires no different installation
- Can be toughened or laminated for use as a safety glass



### AVAILABILITY

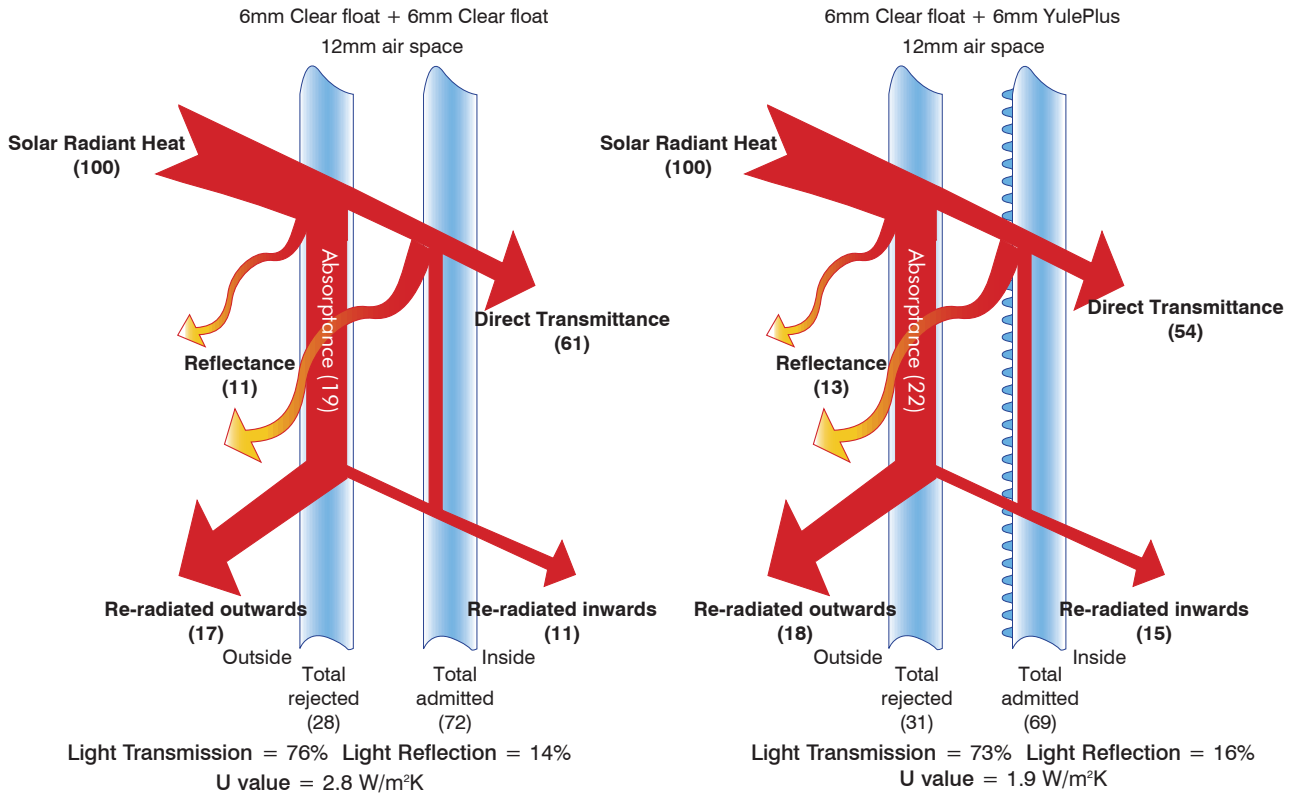
Available from stock in thicknesses of 4mm and 6mm or made in sealed glass units incorporating 4mm or 6mm glass.

### USAGE

Low-E Glass can be used in any domestic or commercial application where energy efficiency is required. When used with other solar control glasses Low-E Glass can greatly assist to improve the thermal performance of the window. When used in a double glazing unit, the Low-E coating is normally on the room side pane with the coated surface facing into the cavity of the sealed unit. Therefore heat loss is considerably reduced - saving on fuel costs.

Low-E Glass looks exactly like ordinary glass letting the same amount of light into a building but less energy out. It is truly an energy efficient version of double glazing which adds little to the cost of installing windows.

## DOUBLE GLAZED UNITS - COMPARATIVE PERFORMANCE VALUES



## PERFORMANCE

The following is intended as a general guide to the thermal performance of some of the configurations of YulePlus Low-E Glass when used in KeepHEAT Double Glazed Units. For more detailed technical information including thermal and acoustic performance, along with energy and light transmissions, weight and construction details, please refer to AC Yule's "Building Glass Product Characteristics" brochure.

UNIT TYPE	U VALUE (W/m <sup>2</sup> K)	SOUND INSULATION
<b>Heat Loss Reduction</b>		
Single clear float glass □ □ □	5.8	28
KeepHeat Double Glazing Units incorporating clear float glass	2.8	25
KeepHeat Double Glazing Units incorporating clear float glass and patterned glass	2.8	25
KeepHeat YulePlus Double Glazing Units incorporating clear float and low emissivity glass □	1.8	25
<b>Solar Control</b>		
KeepHeat YulePlus Double Glazing Units incorporating clear float and body tinted glass	2.8	32
KeepHeat YulePlus Double Glazing Units incorporating clear float and solar reflective glass	2.6*	32
KeepHeat YulePlus Double Glazing Units incorporating Low-E glass and body tinted glass	1.9*	32
KeepHeat YulePlus Double Glazing Units incorporating Low-E glass and solar reflective glass	1.8*	32
<b>Noise Control</b>		
KeepHeat YulePlus Double Glazing Units incorporating different thicknesses of clear float glass (comprising 10mm clear float, 12mm cavity, 6mm clear float)	2.8*	35

\* Thermal performance can vary quite significantly dependent on colour of glass and/or coating. The above information is for guide purposes only.