



Creating perfect environments  
in which to live and work.



## The highest standards. From manufacture to delivery.

Choose Pilkington **Optifloat™** and you'll benefit from the excellent standards of product and service for which Pilkington is synonymous.

All manufacture of Pilkington **Optifloat™** meets EN 572 part 2 1995, the exacting European standard. We've also made Health and Safety a priority, reflected by our plants' exemplary record and the comprehensive training received by all our staff.

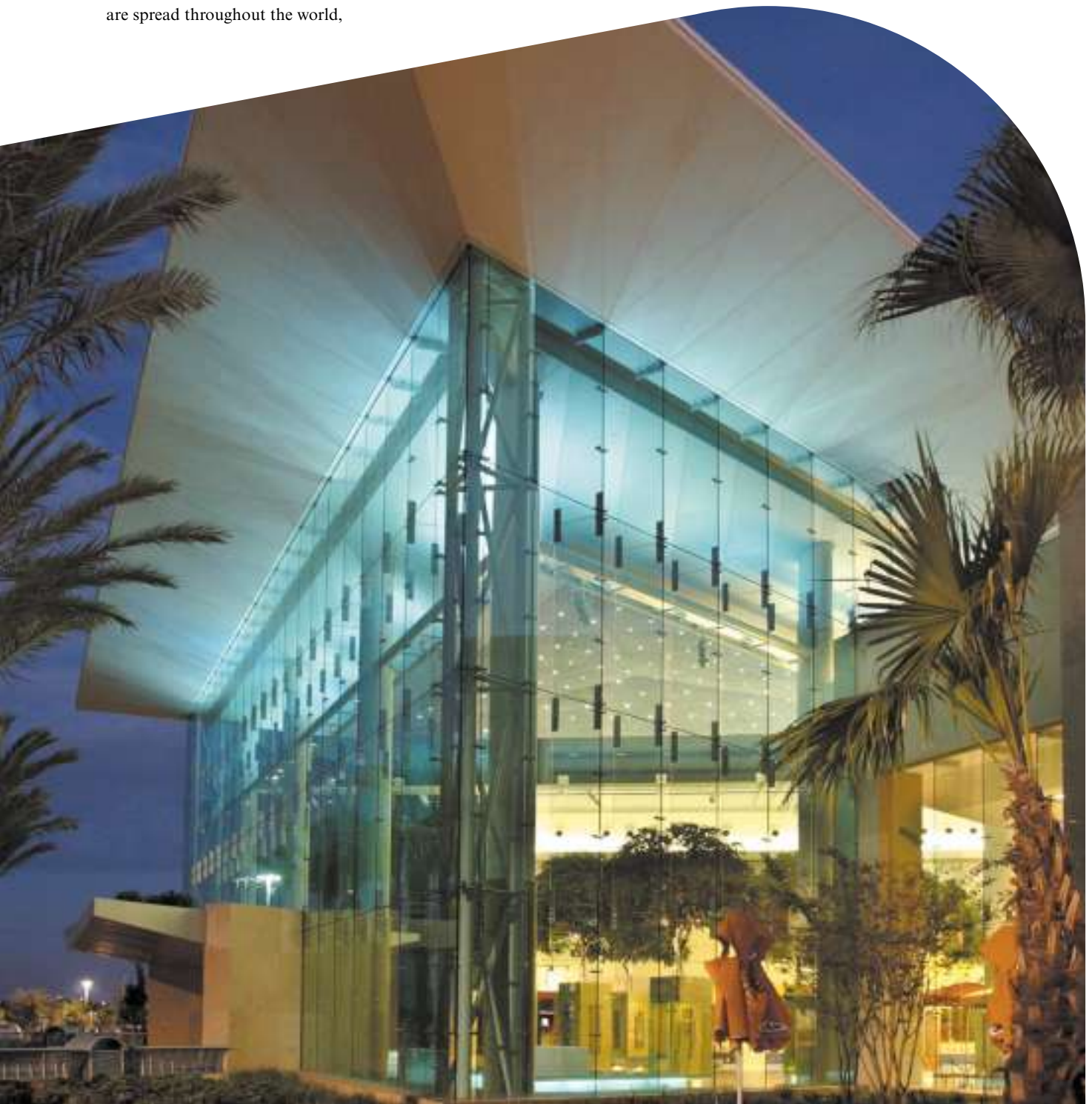
We're just as committed to you.

Our Pilkington **Optifloat™** plants and sales teams are spread throughout the world,

with the aim of making the full product range accessible to all markets. To ensure the convenience of a local service with the reassurance of a global company, product supply is co-ordinated by the most modern computer systems – so you can rely on getting what you want, where and when you want it.

And we constantly monitor our performance to ensure it meets the standards you should expect from Pilkington. The world leaders in glass.

Global co-ordination gives you a service you can rely on every time.



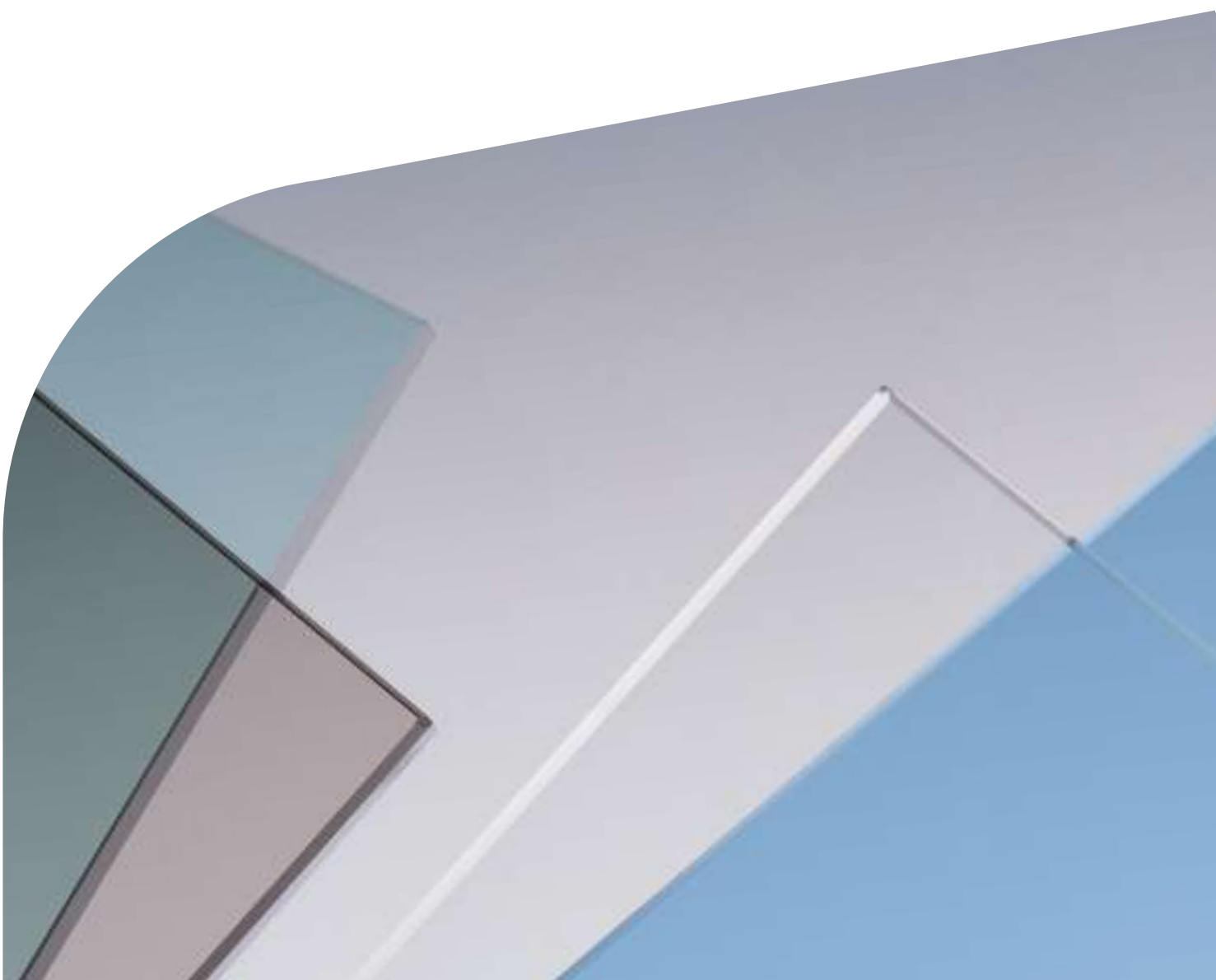


## An unrivalled heritage in float glass.

Pilkington are the world leaders in glass and the inventors of float glass, now globally known as Pilkington **Optifloat**™.

Few materials have had as big an effect on our living and working environments as glass. In fact, the pre-eminence of glass in architecture can be traced back to 1959, when Pilkington invented the float glass process – enabling efficient production of large quantities of high quality glass for the first time.

Although float glass production has since been licensed across the globe, Pilkington has constantly developed and improved the process to produce glass that is both of the highest quality and available in a wide range of sizes and thicknesses – allowing it to be used in virtually limitless applications.



## Clarity. Quality. Consistency.

Pilkington is committed to total quality. When you choose Pilkington **Optifloat™** you can be sure of receiving uniform float glass, free of visual distortion.

You would expect little else from the world's leading glass manufacturer. We invest over £30 million a year in research and development, to ensure the continual improvement of product ranges such as Pilkington **Optifloat™** in terms of quality and value for money.



Pilkington **Optifloat™**  
The highest quality float glass, with an unrivalled environmental pedigree.

Quality controlled  
manufacturing processes.



## An environmental edge.

Pilkington **Optifloat™** benefits you, while minimising damage to the environment. It is totally recyclable and reflects the environmental stance of Pilkington as a company.

We are utterly committed to environmentally aware processes, and since 1970 have halved our energy consumption and air pollution per ton of product manufactured.

Our efforts have not gone unrecognised.

The Pilkington float glass plants in Europe meet the stringent demands of international standard ISO 14001.

Through the implementation of forward thinking environmental policies it has cut waste to one fiftieth of the manufacturing industry norm, and also reduced emissions and water consumption.

It is a standard we are applying to all our float plants, worldwide.



## A diversity of uses and advantages.

### Product features

- Specially tinted Pilkington **Optifloat™** saves man-made energy, controls solar energy and gives a striking visual effect.
- Pilkington **Optifloat™** meets the increasing demands for light in today's workplace, creating more attractive interiors with a greater feeling of space.
- In both homes and the workplace, Pilkington **Optifloat™** offers a practical, stylish alternative to traditional materials in screens, partitions and furniture.
- Pilkington **Optifloat™** gives designers the freedom to create attractive modern environments that are also economical and easy to maintain.
- Pilkington **Optiwhite™** is a specially developed float glass with none of the faint tint usually apparent in 'clear' glass, making it suitable for use in applications from façades to furniture. It also offers superior performance in terms of higher light transmission and greater solar heat transmittance.

The combination of Pilkington **Optifloat™** and Pilkington expertise gives you the perfect environment.



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# Pilkington **Optifloat™**

## Technical Information Datasheet



	Light		Solar Energy				Shading Coefficient			U value (W/m <sup>2</sup> K)
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance	Short Wavelength	Long Wavelength	Total	

### Pilkington **Optifloat™** Clear



2mm	0.90	0.08	0.86	0.08	0.06	0.88	0.99	0.02	1.01	5.9
3mm	0.90	0.08	0.84	0.08	0.08	0.87	0.97	0.03	1.00	5.8
4mm	0.89	0.08	0.83	0.07	0.10	0.85	0.95	0.03	0.98	5.8
5mm	0.89	0.08	0.81	0.07	0.12	0.84	0.93	0.04	0.97	5.8
6mm	0.88	0.08	0.79	0.07	0.14	0.82	0.91	0.03	0.94	5.7
8mm	0.88	0.08	0.76	0.07	0.17	0.80	0.87	0.05	0.92	5.7
10mm	0.87	0.08	0.72	0.07	0.21	0.78	0.83	0.06	0.89	5.6
12mm	0.85	0.08	0.68	0.07	0.25	0.75	0.78	0.08	0.86	5.5
15mm	0.84	0.08	0.66	0.06	0.28	0.73	0.76	0.08	0.84	5.5
19mm	0.82	0.08	0.60	0.06	0.34	0.68	0.69	0.09	0.78	5.3

Body-tinted Pilkington **Optifloat™** glass range for Solar Control

### Pilkington **Optifloat™** Green



4mm	0.80	0.07	0.56	0.06	0.38	0.66	0.64	0.12	0.76	5.8
5mm	0.78	0.07	0.51	0.06	0.43	0.62	0.59	0.12	0.71	5.8
6mm	0.75	0.07	0.46	0.06	0.48	0.59	0.52	0.16	0.68	5.7
8mm	0.71	0.07	0.40	0.05	0.55	0.54	0.46	0.16	0.62	5.7
10mm	0.67	0.07	0.35	0.05	0.60	0.51	0.40	0.19	0.59	5.6

### Pilkington **Optifloat™** Bronze



3mm	0.68	0.07	0.66	0.06	0.28	0.73	0.75	0.09	0.84	5.8
4mm	0.61	0.06	0.59	0.06	0.35	0.68	0.68	0.10	0.78	5.8
5mm	0.55	0.06	0.53	0.06	0.41	0.64	0.61	0.12	0.73	5.8
6mm	0.50	0.06	0.47	0.06	0.47	0.60	0.54	0.15	0.69	5.7
8mm	0.40	0.05	0.38	0.05	0.57	0.53	0.44	0.17	0.61	5.7
10mm	0.33	0.05	0.31	0.05	0.64	0.47	0.36	0.18	0.54	5.6

### Pilkington **Optifloat™** Grey



3mm	0.65	0.06	0.65	0.06	0.29	0.72	0.75	0.08	0.83	5.8
4mm	0.57	0.06	0.57	0.06	0.37	0.67	0.66	0.11	0.77	5.8
5mm	0.50	0.06	0.51	0.05	0.44	0.62	0.59	0.12	0.71	5.8
6mm	0.44	0.05	0.45	0.05	0.50	0.58	0.52	0.15	0.67	5.7
8mm	0.35	0.05	0.36	0.05	0.59	0.51	0.41	0.18	0.59	5.7
10mm	0.27	0.05	0.28	0.05	0.67	0.46	0.32	0.21	0.53	5.6

The above performance data was determined in accordance with EN 410 and EN 673.

## Pilkington **Optifloat™**

A range of low to medium performance clear float glass manufactured using the standard float glass process.

### **Benefits Summary**

- Ideal for letting in light and keeping bad weather out
- Practical, stylish alternative to traditional solid materials
- Economical and easy to maintain

### **Handling and Storage information**

Glass should be stored in dry conditions and out of direct sunlight, stacked upright in properly designed racks and fully supported in a manner which prevents the glass from sagging. In no circumstances should glass products ever be stored in the horizontal position. It should be stood on edge on strips of wood, felt or other relatively soft material. Special care should be taken to protect the glass, especially the edges, from impact damage (knocks, abrasions and excessive local pressure). Upon receipt and before glazing, each glass should be checked for damage. Damaged glass should not be glazed. Water must not be allowed to reach the edges of stacked glass as it can be drawn between the plates by capillary action and cause damage. The glass must be protected from site contamination such as

## Pilkington **Optifloat™ Tinted**

A range of low to medium performance, body-tinted glass manufactured using the standard float glass process. Solar control and colour densities vary with thickness. Available in Bronze, Grey and Green.

### **Benefits Summary**

- Range of Solar control performance options
- Range of colours
- Low reflection
- Can be toughened or laminated
- Can be used in both single glazing and insulating glass units

welding, cementitious plaster products or adhesives. When glass is stored or transported there should always be some kind of protector between glass surfaces to prevent transit damage. This should be appropriate to the product and sizes considered. It may be for example, paper, rubber pads (buddies) or Lucite. When moving glass and glass products around a site or factory, whether on pallets, stillages or in cases etc, whether by fork life crane or other mechanical means, always bear in mind that glass remains fragile and will be broken by rough handling. Particular care should be taken to ensure that the glass is properly fastened and secured to prevent it falling and to avoid any damage. Glass should always be handled by staff who have been properly trained in approved practice, taking into account good health and safety procedures.

The technical information contained in this data sheet is in accordance with the relevant harmonised European Standard(s) for the product(s). For further information on European Standards and CE Marking kindly visit <http://www.gevpv.org/marking.html>



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