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Pilkington **Optiwhite**™

PILKINGTON

Greater clarity through technical excellence.

Pilkington Optiwhite™ For true colour and maximum light transmission.

Whether the requirement is to achieve maximum light transmission or to demonstrate the true colour of an item on display, Pilkington **Optiwhite™** is the clear choice. Pilkington **Optiwhite™** is a specially developed float glass which displays none of the faint tint apparent in most standard 'clear' glass, making it suitable for a wide range of applications from commercial façades to furniture.

Deutsche Post Tower, Bonn.

Technical excellence as standard.

As with all products manufactured by Pilkington, technical excellence is a standard feature. Pilkington **Optiwhite™** has superior performance when compared with conventional clear float products; this includes higher light transmission and greater solar heat transmittance.

For instance, the light transmission of 10mm Pilkington **Optiwhite™** is higher than a clear float glass of similar thickness and close to the theoretical maximum.

Direct solar heat transmittance is also greater with Pilkington **Optiwhite™** and is vital when specifying glass for solar energy collection applications. In either direct transmittance, or as the component glass in mirrors reflecting energy onto solar collectors, the performance of Pilkington **Optiwhite™** is substantially superior.

Cover Image: Deutsche Post Tower, Bonn, Germany

The beauty of Pilkington **Optiwhite**™

Pilkington **Optiwhite**™ provides the means of displaying purity of colour and enhanced lighting effects across an extensive range of applications.

Glass Façades.
In commercial buildings, shop windows, showrooms, display cases and exhibition areas, Pilkington **Optiwhite**™ displays products with a greater degree of clarity. Due to the need for enhanced external viewing, Pilkington **Optiwhite**™ was the product of choice for architects when designing the Deutsche Post Tower and the Metropolitan Building, Warsaw. For similar reasons, BMW chose to use Pilkington **Optiwhite**™ in their headquarters in Milan .

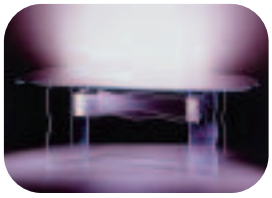
Display Units.
The clarity of Pilkington **Optiwhite**™ sharply displays screen-printed colours that are applied to the glass. Ideal uses are in display cabinets and a wide range of white and brown goods.

Furniture & Interior Design.
Glass is now the material of first choice for many designers throughout Europe. Pilkington **Optiwhite**™ is a powerful product in the quest to create attractive environments, offering greater interior light and displaying objects with more clarity. Incorporated into furniture designs, Pilkington **Optiwhite**™ enhances the appearance of natural materials. Where edges of the glass are purposely exposed as a design feature, the contrast with the surface is much reduced in comparison with standard float glass. Pilkington **Optiwhite**™ is ideal for use in tables, cabinets and shelving.

Photovoltaic Panels.
Pilkington **Optiwhite**™ applications have also been extended to environmentally friendly photovoltaic panels, which capture natural light and convert it into electricity. The high light transmittance of Pilkington **Optiwhite**™ makes it the product of choice over normal float glass.

Laminated Applications.
As the strength of laminated glass is dependent on multiple layers of glass and polymers, achieving optical clarity (a challenge faced by the industry) has been overcome with the introduction of Pilkington **Optiwhite**™.

Multiple layers of glass have, in the past, exaggerated any tint inherent in standard clear float. Pilkington **Optiwhite**™ maintains visual clarity throughout the range, benefiting applications where optical quality is required with maximum security.



'Chiaramarea' table photograph courtesy of Nonsole Vetro di Alessandro Faggin.

Metropolitan Building, Warsaw

Pilkington Optiwhite™ Technical Details.
Pilkington **Optiwhite**™ is available in a range of thicknesses from 2mm to 19mm. For processing, handling, cleaning and maintenance, Pilkington **Optiwhite**™ requires no different treatment to standard float.

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	Light		Solar energy				Shading Coefficient			UV	U value
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance	Short Wavelength	Long Wavelength	Total	Transmittance	(W/m^2K)
Pilkington Optiwhite											
2mm	0.91	0.08	0.91	0.08	0.01	0.91	1.05	0.00	1.05	0.86	5.9
3mm	0.91	0.08	0.90	0.08	0.02	0.91	1.03	0.02	1.05	0.84	5.8
4mm	0.91	0.08	0.90	0.08	0.02	0.91	1.03	0.02	1.05	0.83	5.8
5mm	0.91	0.08	0.89	0.08	0.03	0.90	1.02	0.01	1.03	0.81	5.8
6mm	0.91	0.08	0.89	0.08	0.03	0.90	1.02	0.01	1.03	0.81	5.7
8mm	0.91	0.08	0.88	0.08	0.04	0.89	1.01	0.01	1.02	0.78	5.7
10mm	0.90	0.08	0.87	0.08	0.05	0.88	1.00	0.01	1.01	0.76	5.6
12mm	0.90	0.08	0.86	0.08	0.06	0.88	0.99	0.02	1.01	0.73	5.5
15mm	0.89	0.08	0.85	0.08	0.07	0.87	0.98	0.02	1.00	0.71	5.5
19mm	0.89	0.08	0.83	0.08	0.09	0.86	0.95	0.04	0.99	0.68	5.3

Determined in accordance with EN 410 and EN 673

Handling and Storage.

Glass should be stored in dry conditions and out of direct sunlight, stacked upright and fully supported in a manner which prevents the glass from sagging. It should be stood on edge on strips of wood, felt or other relatively soft materials. 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 contamination such as welding, cementatious, plaster products or adhesives.

For further details, call our Technical Helpline on 01744 692000 or visit www.pilkington.com

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