



SPECIAL APPLICATIONS



Pilkington **Optiwhite™**

The clear choice.



PILKINGTON

Pilkington **Optiwhite**[™]

For true colour
and maximum light
transmission.

Greater clarity through technical excellence.

Whether the requirement is to demonstrate the true colour of an item on display, or to achieve maximum light transmission, 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' glasses, making it suitable for a wide range of applications from commercial facades to furniture

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 91%. This is 4% 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.





Pilkington **Optiwhite™** *The clear choice for maximum light transmission.*

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BMW showroom, Milan.

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 Facades.

In shop windows, car showrooms, display cases and exhibition areas, Pilkington **Optiwhite™** displays products with a greater degree of clarity. Due to their need for enhanced external viewing, BMW chose to use Pilkington **Optiwhite™** in their new headquarters in Milan. For similar reasons, Pilkington **Optiwhite™** was the product of choice for architects when designing the Berlin Reichstag.

Screen-Printing.

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 new product in the quest to create attractive environments, offering greater interior light and displaying objects with more clarity. Incorporated into furniture, Pilkington **Optiwhite**[™] enhances the appearance of natural materials. Where edges of the glass are purposefully 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.



'Chiamarea' table photograph courtesy of Nonsolo Vetro di Alessandro Faggini.

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 a optical quality is required with maximum security.

Pilkington **Optiwhite**[™] Technical Details.

Pilkington **Optiwhite**[™] is available in a range of 2mm-15mm. For processing, handling, cleaning and maintenance, Pilkington **Optiwhite**[™] requires no different treatment to standard float.

Pilkington **Optiwhite™** Monolithic Glass Performance Data.

	Light		Solar Radiant Heat				Shading Coefficient			U value	Sound Insulation			Mass	
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance	Short Wavelength	Long Wavelength	Total	(W/m ² K)	Rm (dB)	Rw (dB)	UV Transmittance	(kg/m ²)	Code
	%	%	%	%	%	%					*	*	%		
2mm	91.8	8.0	91.2	7.7	1.1	92	1.04	0.01	1.05	5.9	*	*	85	5.0	92/92
3mm	91.7	8.0	90.9	7.7	1.4	91	1.04	0.01	1.05	5.8	26	30	83	7.5	92/91
4mm	91.6	8.0	90.6	7.7	1.7	91	1.04	0.01	1.05	5.8	27	30	82	10.0	92/91
5mm	91.5	8.0	90.2	7.7	2.1	91	1.03	0.01	1.04	5.8	29	32	81	12.5	92/91
6mm	91.4	7.9	89.8	7.6	2.5	91	1.03	0.01	1.04	5.7	29	32	79	15.0	91/91
8mm	91.2	7.9	89.0	7.6	3.3	90	1.02	0.01	1.03	5.7	31	34	76	20.0	91/90
10mm	91.0	7.9	88.1	7.6	4.3	89	1.01	0.02	1.03	5.6	33	36	74	25.0	91/89
12mm	90.7	7.8	87.0	7.6	5.4	88	1.00	0.02	1.02	5.5	34	37	72	30.0	91/88
15mm	90.3	7.6	85.2	7.5	7.3	87	0.98	0.02	1.00	5.5	35	38	71	37.5	90/87

* Not recommended for glazing. Calculated in accordance with EN410:1998 and EN673:1997.

