

 PILKINGTON

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GROUP



Low-Iron Clear Float Glass
Pilkington **Optiwhite™**



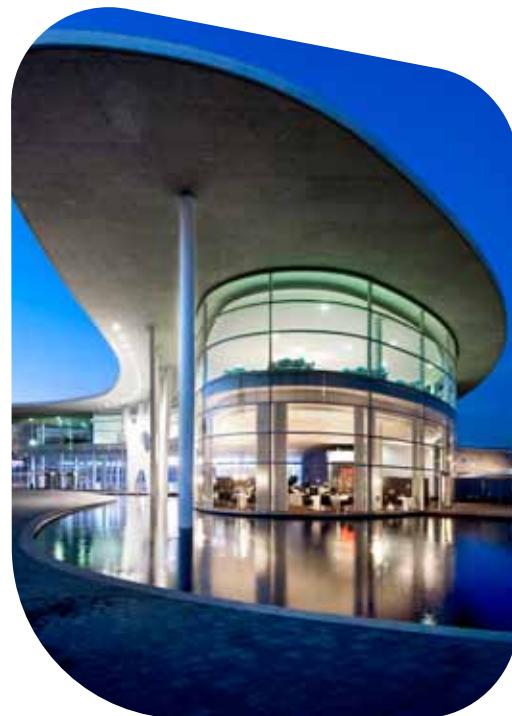
The Solution is Clear

Today the use of glass in architecture and design is becoming more and more prevalent, and Pilkington **Optiwhite™** is at the very forefront of making it possible.

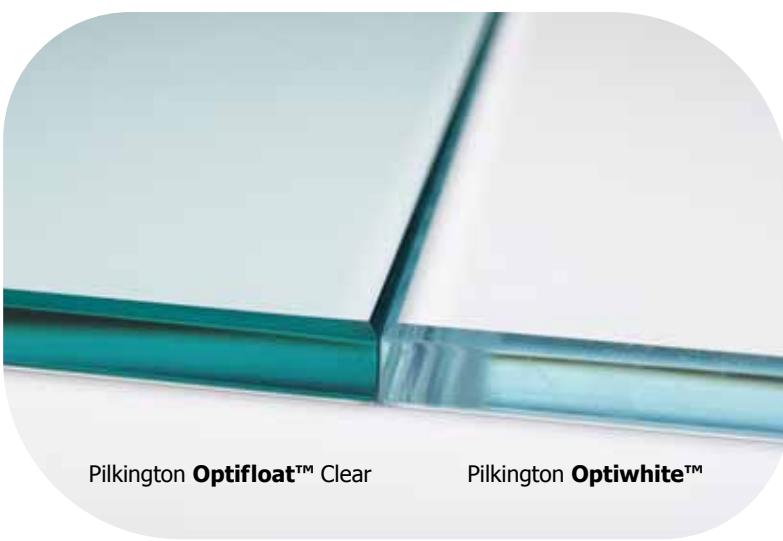
The reason for this is the sheer variety of benefits which Pilkington **Optiwhite™** can offer, making it an excellent choice for a wide range of applications. Pilkington **Optiwhite™** is an extra-clear, low-iron float glass; it is practically colorless, and the green cast inherent to other clear glasses is not present. It is perfect for applications where transparency and purity of color are desired.



Pilkington **Optiwhite™**
Glass Pavilion at The Toledo Museum of Art
Toledo, Ohio



Pilkington **Optiwhite™**
Barcelona Exhibition Building
Barcelona, Spain



Available in thicknesses between 3 mm and 19 mm (the widest range on the market), Pilkington **Optiwhite™** provides increased design flexibility and, when combined with other Pilkington products, it can offer additional benefits such as thermal insulation or solar control. It also comes with all the reassurance of not only being a market-leading product in its own right, but of bearing the market-leading Pilkington name, and with the unrivalled support you would expect from our brand.

Features and Benefits

- High light transmittance for true color and outstanding visual clarity when an unrestricted view is required.
- Purity of color with minimum color cast when viewing through the glass, ensuring a true representation of the designer's vision.
- Ensures a more natural, brighter view.
- Improves aesthetics of laminated glass.
- Provides less greenish color of the glass edges.
- High solar heat transmittance providing passive solar gain to allow more heat through, which can save costs on energy bills during the winter.
- Can be toughened or laminated for safety and security.
- Can be painted or silk-screened for spandrel or decorative applications.
- Can be combined with other products from the Pilkington range to provide additional benefits.

Interior Glazing

Laminated glass provides safety and security by marrying together multiple layers of standard float glass and polyvinyl butyral (PVB) interlayers. However, this process also exaggerates any tint or color inherent to the product. This is much less noticeable when using Pilkington **Optiwhite™** as the substrate for laminated glass.

The resulting product is free from inherent darkening conventionally associated with laminated glass. Incorporating thicker clear float glass enhances safety and security.

Pilkington **Optiwhite™** is the ideal alternative solution for balustrades, balconies, doors, partitions and stairs.



Pilkington **Optiwhite™**
Glass Railing Staircase
Norway

Exterior Glazing

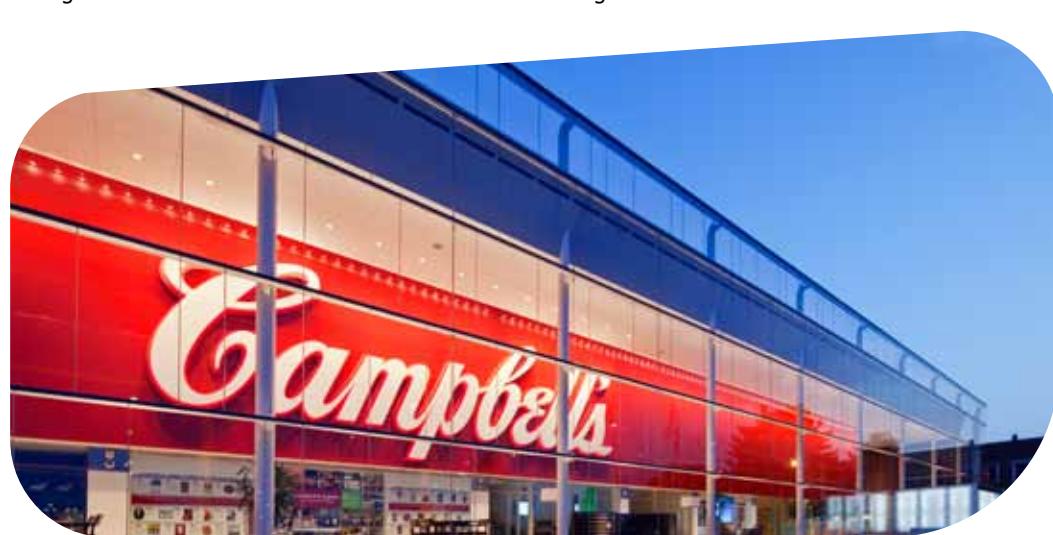
One of the most attractive features of Pilkington **Optiwhite™** is its ability to achieve greater brilliance and transparency, allowing a clear and true representation of colors when viewed through the glass. These same qualities also allow for great interior daylight, which no doubt explains why architects select Pilkington **Optiwhite™** as the product of choice for buildings where transparency and brightness are of paramount importance.

Thanks to these and the many other benefits that Pilkington **Optiwhite™** brings to exterior applications, it is the perfect choice for facades. It can be combined in an insulating glass unit with Pilkington solar control low-e products, such as Pilkington **Eclipse Advantage™** and Pilkington **Solar-E™**.

Furniture and Other Applications

As designers are finding, Pilkington **Optiwhite™** is an ideal solution for applications where glass is used as a design feature, such as glass tables. The same is true where glass edges are purposely exposed. Railings, shelving, and shower enclosures are examples of where its clarity enhances the entire appearance.

Its inherent ability to make colors appear brighter also means that Pilkington **Optiwhite™** provides an exceptional base glass for tiles, signs, furniture, doors, and gives more accurate color definition when used as a mirror base. When true color is important, it provides an ideal base for a sign with ceramic frit applied to the backside of the glass.



Pilkington **Optiwhite™**
Campbell's Employee Center,
Camden, New Jersey

Pilkington **Optiwhite™** Single Glass Performance Data

	Nominal Glass Thickness		Visible Light ²		Solar Energy ²		U-Factor ⁵			Solar Heat Gain Coefficient ⁷	Shading Coefficient ⁸		
	in.	mm	Transmittance ³ %		Reflectance ⁴ %		Transmittance ³ %	Reflectance ⁴ %	UV Transmittance ² %	U.S. Summer	U.S. Winter	European ⁶	
			Outside	Inside	Outside	Inside							
Pilkington Optiwhite™	1/8	3	91	9	9	91	8	88	0.94	1.04	5.8	0.91	1.04
	5/32	4	91	9	9	90	8	87	0.94	1.04	5.8	0.91	1.04
	3/16	5	91	9	9	90	8	86	0.93	1.03	5.7	0.91	1.04
	1/4	6	91	9	9	90	8	85	0.93	1.02	5.7	0.90	1.04
	5/16	8	91	9	9	89	8	84	0.92	1.01	5.6	0.90	1.03
	3/8	10	91	9	9	88	8	83	0.91	1.00	5.6	0.89	1.03
	1/2	12	90	9	9	88	8	81	0.89	0.99	5.5	0.89	1.02
	5/8	15	90	9	9	86	8	77	0.88	0.97	5.4	0.88	1.01
	3/4	19	90	8	8	86	8	78	0.86	0.95	5.3	0.88	1.01

*U.S. U-Factor (Btu/hr.sq ft. °F) is based on NFRC/ASTM standards

**European U-Factor (W/sq m K) is based on EN 410/673 (CEN) standard

All performance values are center-of-glass values calculated by the LBNL Window 6.3 program

See Pilkington Architectural Product Guide for explanation of superscript references^{-1, 10}

This publication provides only a general description of the product. Further, more detailed, information may be obtained from your local supplier of Pilkington products. It is the responsibility of the user to ensure that the use of this product is appropriate for any particular application and that such use complies with all relevant legislation, standards, codes of practice and other requirements. To the fullest extent permitted by applicable laws, Nippon Sheet Glass Co. Ltd. and its subsidiary companies disclaim all liability for any error in or omission from this publication and for all consequences of relying on it. Pilkington, "Optiwhite," "Solar-E," "Eclipse Advantage," and "Optifloat" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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