



Low-iron clear float glass

Pilkington Optiwhite™



PILKINGTON

NSG Group Flat Glass Business



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 colourless, and the green cast inherent to other glasses is not present. It is therefore ideal for use where glass edges are visible or where a neutral colour is desired. As its light transmission is 1% and 6% higher than clear float glass in 3 mm

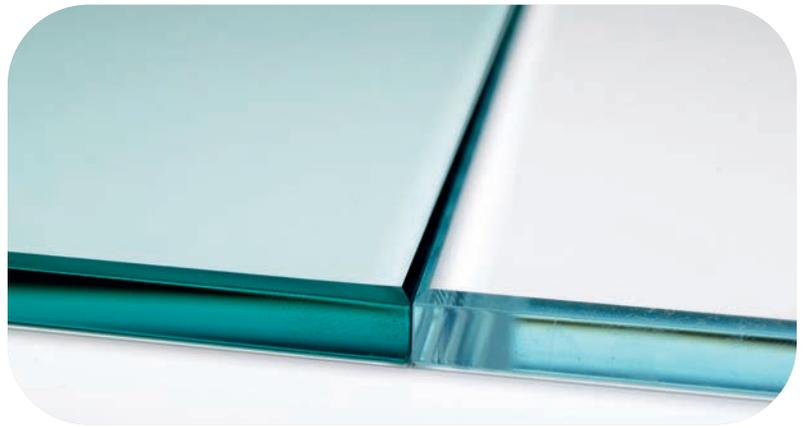
and 15 mm thickness respectively, it is perfect for applications where transparency and purity of colour are desired.

Available in thicknesses of between 2 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 self-cleaning. 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 transmission for outstanding visual clarity when an unrestricted view is required;
- Purity of colour with minimum colour cast when viewing through the glass, ensuring a truer representation of the designer's vision;
- High solar heat transmittance providing passive solar gain to allow more heat through, which can save costs on energy bills during the winter;
- Flexibility of application;
- Can be toughened or laminated for safety and security;
- Can be combined with other products from the Pilkington range to provide additional benefits.



Pilkington **Optifloat™** Clear

Pilkington **Optiwhite™**





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 of colour 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 the thicker clear float glass used for enhanced safety and security, making Pilkington **Optiwhite™** the ideal alternative solution for balustrades, balconies, doors, partitions and stairs.

Features and benefits

- Ensures a more natural, brighter view;
- Improves aesthetics of laminated glass;
- Made to exceptional, consistent quality and performance;
- Can be toughened or laminated;
- Can be combined with other products from the Pilkington range to provide additional benefits.







Exterior glazing

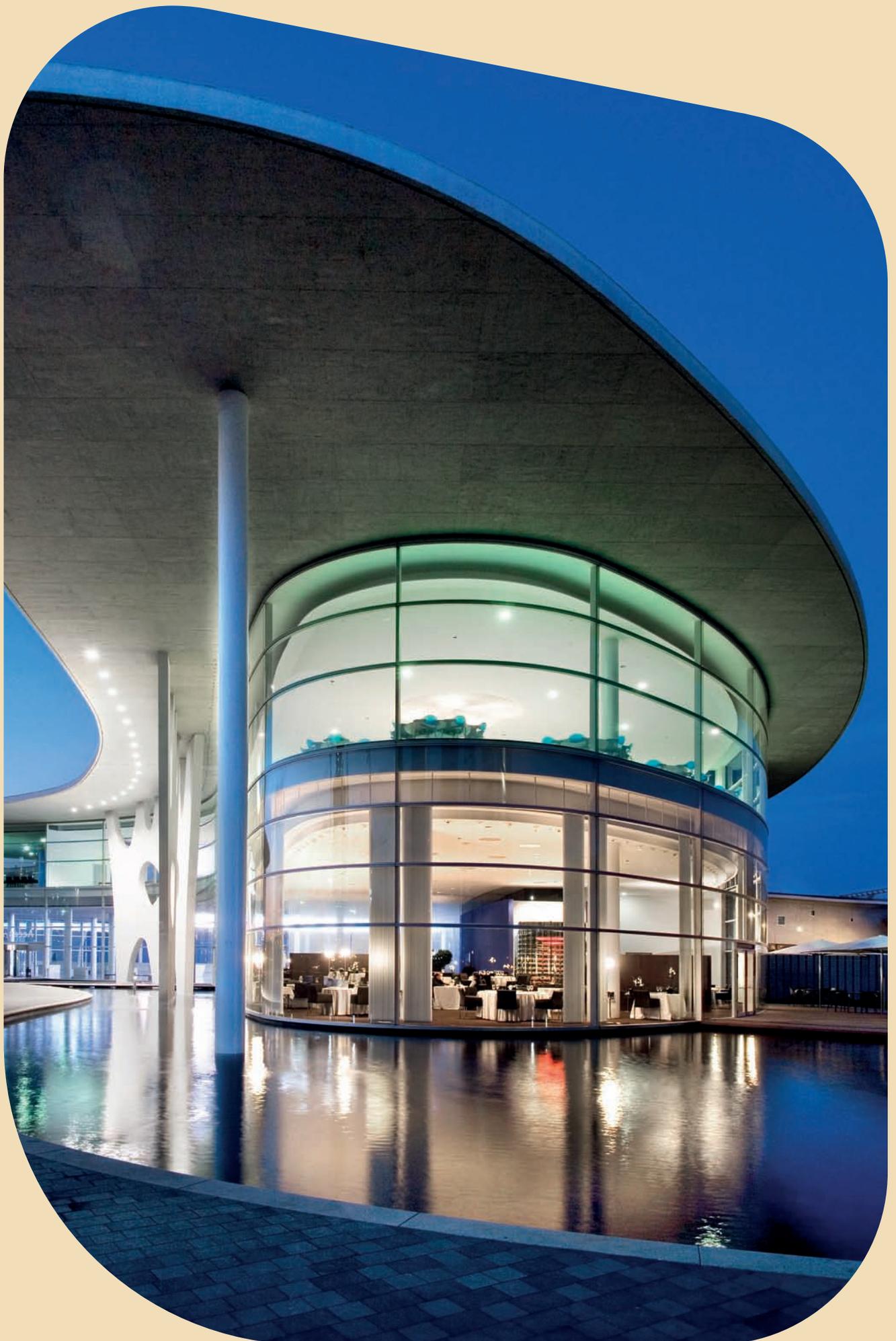
One of the most attractive features of Pilkington **Optiwhite™** is its ability to achieve greater brilliance and transparency, allowing a clear and truer representation of colours when viewed through the glass. These same qualities also allow for great interior daylight, which no doubt explains why Pilkington **Optiwhite™** is the product of choice for architects 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 façades. It can be combined with other products from the Pilkington range. For example, when combined with Pilkington **Suncool™** it decreases the risk of thermal breakage and reduces the need for toughening, whilst providing additional high performance solar control and low-emissivity. When used in shop fronts, it enhances true colours and allows maximum light transmission, even in thicker laminated combinations. In domestic windows, Pilkington **Optiwhite™** maximises passive solar gain to reduce the need for heating during cold sunny days.



Features and benefits

- Allows highest transparency for truer colour representation, even in thicker laminated combinations;
- Provides high light transmission;
- Maximises passive solar gain on cold sunny days;
- Made to exceptional, consistent quality and performance;
- Can be toughened or laminated;
- Can be combined with other products from the Pilkington range to provide additional benefits.





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 - for example, shelving and shower screens - where its clarity enhances the entire appearance of the furniture.

In applications such as display cabinets, the high light transmission of Pilkington **Optiwhite™** allows for a truer representation of the potentially high-value products inside. Its inherent ability to make colours appear brighter also means that Pilkington **Optiwhite™** provides an exceptional base glass for tiles, splash-backs and furniture doors, and gives more accurate colour definition when used as a mirror base.

There are many more applications for which Pilkington **Optiwhite™** delivers an outstanding solution, and along with every other Pilkington product we are constantly looking for ways to further improve its performance to better meet the needs of designers and architects worldwide.

Features and benefits

- Allows highest transparency for truer colour representation, even in thicker laminated combinations;
- Provides less greenish colour of the glass edges;
- Provides high light transmittance;
- Made to exceptional, consistent quality and performance;
- Can be toughened or laminated.





The Glass Pavilion™, Toledo, Ohio, USA

The Glass Pavilion™ at the Toledo Museum, Ohio, USA opened in August 2009. It houses one of the world's finest international glass collections. The outside walls and many of the interior walls of the building were made using approximately 14,000 square metres of Pilkington **Optiwhite™** low-iron glass. The structure is 4.6 metres tall and is made of approximately 342 glass panels, ranging in both size and curvature. The architects chose Pilkington **Optiwhite™** because of its versatility and practically colourless properties.



Gardermoen Airport, Oslo, Norway

The focal point at the main airport in Oslo is the staircase with its magnificent glass railing. It is located in the middle of the restaurant where it sweeps up to a separate seating area. Pilkington **Optiwhite™** was the natural choice for the railing, as it offers a perfectly clear appearance without the green tint that you see in most types of glass. Curved glass is used to match the spiral effect of the stairs, and the glass is a 17.52 mm laminated glass to ensure safety.



Fira de Barcelona, Spain

The Barcelona Exhibition Building was designed by Japanese architect Toyo Ito. With a clear predominance of curved shapes and a large curved glass front, it remains true to the creative design style of Ito; who in his own words, seeks to 'merge the virtual with the physical'. Pilkington **Optiwhite™** was the obvious choice of glass for both the interior and exterior, due to its excellent light transmission and attractive appearance. The building is now a reference of modern architecture in Barcelona, one of the most international cities in the world.



About us

We have been manufacturing and processing glass since 1826. This experience has been invaluable and has enabled us to invest in and develop our ideas into world leading products. Products like high-quality float glass, coated, toughened, laminated, fire protection and specialist glass, as well as energy saving Insulating Glass Units were developed by combining our unrivalled technical expertise with true innovation.

Today we manufacture our products in around 30 countries, and we supply these to the building trade, the automotive industry and to the specialty glass sector across 130 different nations – just one of the reasons why the brand Pilkington has become synonymous with glass.

Only recently we became part of the NSG Group, which has added to our resources and our commitment to quality and excellence. If there is anything we could do for you please let us know. We are in this business together, and we are stronger for it.

This publication provides only a general description of the product. Further, more detailed information may be obtained from your local Pilkington Building Products supplier. 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, code 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, "Optifloat" and "Optiwhite" are trade marks of Nippon Sheet Glass Co. Ltd.



CE marking confirms that a product complies with its relevant harmonised European Norm.
The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE



Pilkington Building Products – UK
Prescot Road, St Helens, WA10 3TT United Kingdom
Telephone 01744 692000 Fax 01744 692880
pilkington@respond.uk.com
www.pilkington.co.uk