



Pilkington **Insulight™**
Performance and aesthetics.



PILKINGTON
NSG Group Flat Glass Business



Pilkington **Insulight**[™] The ultimate in creative freedom and flexibility



Old Jewry, London.

Our company has been manufacturing and processing glass since 1826. This experience has been invaluable and has enabled us to invest in and develop our ideas into a range of market leading products.

By combining our unrivalled technical expertise with true innovation, we have been able to develop a wide range of outstanding products. This includes high-quality float glass, fire protection, high-performance glass coatings, specialist glass and a range of comprehensive Insulating Glass Units (IGUs).

Pilkington has become the recognised brand for quality IGUs, with Pilkington **Insulight**[™] now utilised in a wide range of commercial applications including healthcare, education, retail and transport.

Eye-catching buildings made to last

Offering exceptional performance, Pilkington **Insulight**[™] glazing units are preferred by many architects as they allow for maximum design flexibility and creativity. This has resulted in many of the innovative commercial buildings we see today.

Pilkington **Insulight**[™] is a technically advanced dual-sealed unit meeting British and European standards. It is designed to offer a variety of cavity widths, spacer bar colours and performance options. A selection of dual-seal designs can be incorporated into a wide range of glazing systems and will withstand a number of contrasting environments e.g temperature, UV light and moisture vapour permeation.

The unit design has survived severe life testing trials and is fully compliant with BS EN 1279 and is therefore covered by our Pilkington **Insulight**[™] warranty.

The range comprises of a variety of popular IGU options, each custom made, using multiple panes of glass. The panes, which do not need to be of the same glass type or thickness, can be chosen from the following range of glass products to provide multiple benefits:

- Solar Control
- Low-emissivity
- Fire Protection
- Noise Control
- Safety/Security
- Toughened/heat strengthened laminates
- Self-Cleaning
- Decorative aesthetics



Brindley Place, Birmingham.



Lloyds Bank, Bristol.

Bespoke composition

Pilkington **Insulight™** glazing units are available in a wide choice of glass thicknesses and glass types. They incorporate a specially designed high quality continuous rolled aluminium, steel or warm edge spacer options to separate the glass.

Spacer features

- 10 mm – 26 mm widths (incremental of 2 mm)
- Special 27 mm width available for specialist applications
- Available in a range of colours
- Contains desiccant to keep the air or gas in the unit dry for optimum performance

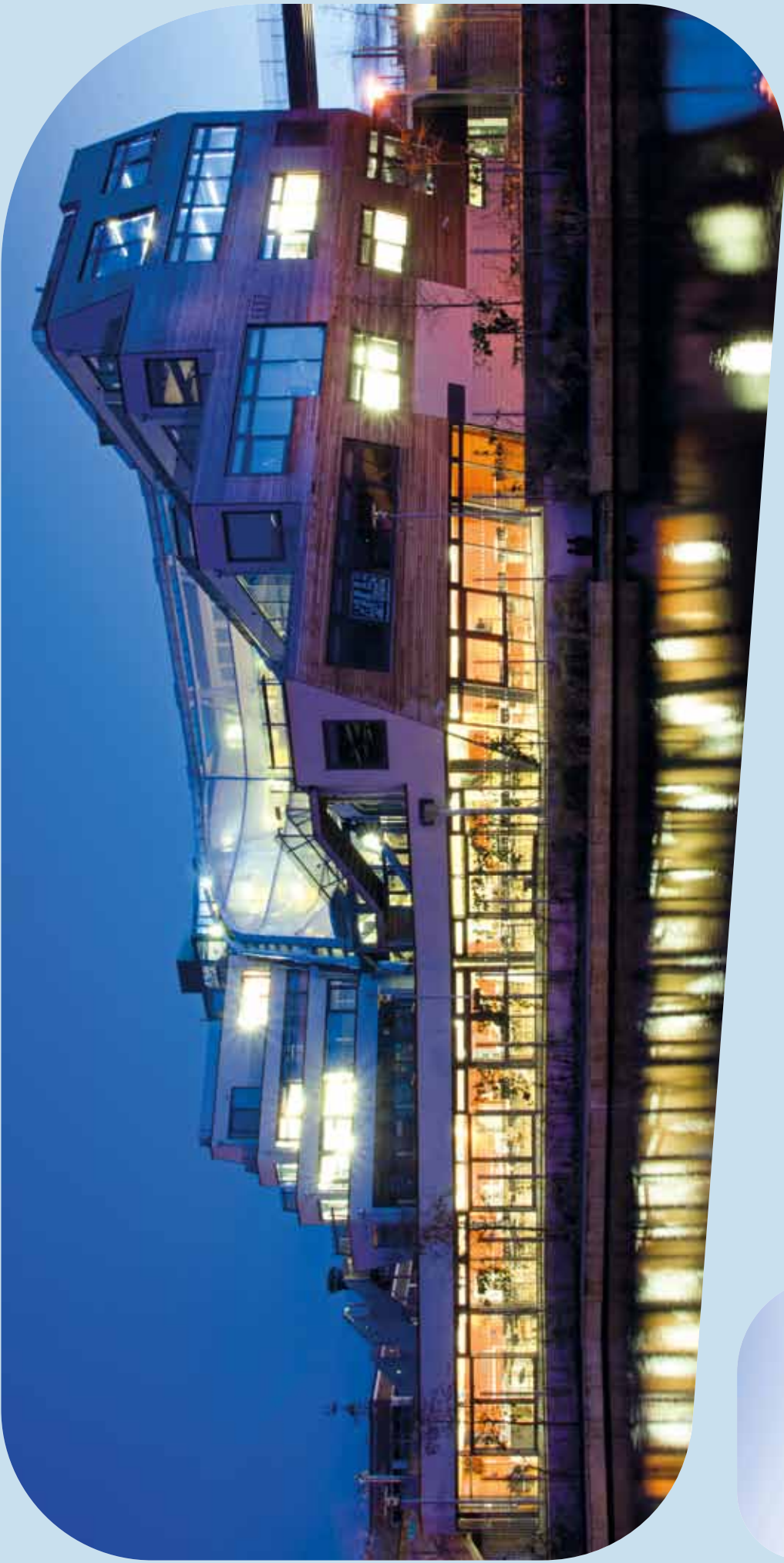
The perimeter of the IGU is hermetically sealed with a two part system made up of butyl and a silicone or polysulphide seal. The seal can withstand a wide range of temperatures and silicone has high resistance to UV rays. This means the units can be used with confidence for cladding panels, silicone structural glazing and roof glazing in addition to conventional glazing.

Note:

All products are available with one or more glass types in toughened or laminated form.

The benefits

- Extensive glass range to meet all environmental performance requirements
- Double and triple glazing solutions
- Continuous spacer for improved seal life
- Warm edge spacer for improved insulation (Psi values) around the unit perimeter
- Seal designed to withstand a wide range of temperatures
- Seal stable to ultra-violet light
- Optimised desiccant for moisture vapour absorption
- Harmonising or contrasting spandrels for non-vision areas
- Use in silicone structural glazing, eliminating external framing
- Pilkington **Insulight™** warranty
- Produced in a fully automated factory, accredited to ISO14001
- Complies with British and international standards
- Full technical advice and support service



Whatever your glazing requirements, the Pilkington commercial sales team and technical advisors can work with you to provide the total environmental performance and create the ideal solution for your application.



A comprehensive product range

Glass type	Product	Why choose this glass type?
Solar Control	Pilkington Suncool™ range Pilkington Insulight™ Sun Pilkington Eclipse Advantage™ range Pilkington Solar-E™ Pilkington Arctic Blue™ Pilkington Optifloat™ Tint	– Reduces solar heat gain and offers high levels of natural light to provide a comfortable and pleasant environment in which to work and live
Thermal Insulation	Pilkington Optitherm™ S3 Pilkington Optitherm™ S1 Pilkington Optitherm™ GS Pilkington K Glass™	– Improves the thermal efficiency of buildings, enabling the architect to specify extensive use of glass
Noise Control	Pilkington Insulight™ Phon Pilkington Optiphon™	– Allows building occupiers to reduce the noise inside a building to acceptable levels without sacrificing daylight
Self-Cleaning	Pilkington Activ™ Suncool Pilkington Activ™ Blue Pilkington Activ™ Neutral Pilkington Insulight™ Activ	– Reduces maintenance costs – Continuously cleans external glass helping to ensure the building looks its best at all times
Safety / Security	Pilkington Insulight™ Protect Pilkington Optilam™ Pilkington T glass	– Anti-bandit – Secure by design – Blast resistant
Fire Protection	Pilkington Pyrostop® Pilkington Pyrodur® Pilkington Pyrodur® Plus Pilkington Pyroshield™ 2	– Provides you with integrity/insulation and protection from radiation – Provides passive protection from the effects of fire for up to 180 minutes (product dependant)

Unit type	Product	Why choose this unit type?
Manual & Motorised Integral Blinds	Pilkington Insulight™ Screenline®	– Provides style and elegance to your windows – Blinds stay hygienic with no need for cleaning
Toughened or Heat Strengthened Laminate	Pilkington Optilam™ T	– Ideal for use in roofs, atria and unitised systems, or when glazing is thermally at risk
Structural Glazing System	Pilkington Insulight™ can be combined with system companies structural glazing product	– Enhances the appearance by eliminating external framing – Improves aesthetics
Pilkington Spandrel Glass	Pilkington Spandrel Glass	– It has the potential to contrast or harmonise with vision areas – Can provide high levels of thermal insulation – Option to have it foam backed with aluminium tray with different surface finishes

Process	
Screen Printing	Provides: – Decoration – Manifestation – Privacy – Solar Control – Light diffusion
Heat Soak Testing	Heat soaked tested toughened glass available. Recommended for safety critical areas and overhead glazing



Circle Bath Hospital, Bath.

Contact us



Welsh Assembly, Wales.

We will be pleased to provide information and advice on all enquiries, orders and contracts for Pilkington **Insulight™** units.

For more details and technical data please visit www.pilkington.co.uk, email pilkington@respond.uk.com or phone our Customer Contact Centre on 01744 692000.



Brindley Place, Birmingham.



**The Light
Building,
Leeds.**

Installer: HW Architectural Ltd
Architect: Fairhurst
Main Contractor: Shepherd Construction
System: Schuco FW50
Structural Glazing

Glass Type: Toughened and heat soaked Pilkington **Suncool™** 66/33 with toughened and heat soaked Pilkington **Optifloat™** Clear. Pilkington **Optilam™** I Translucent White laminated diffusing glass.

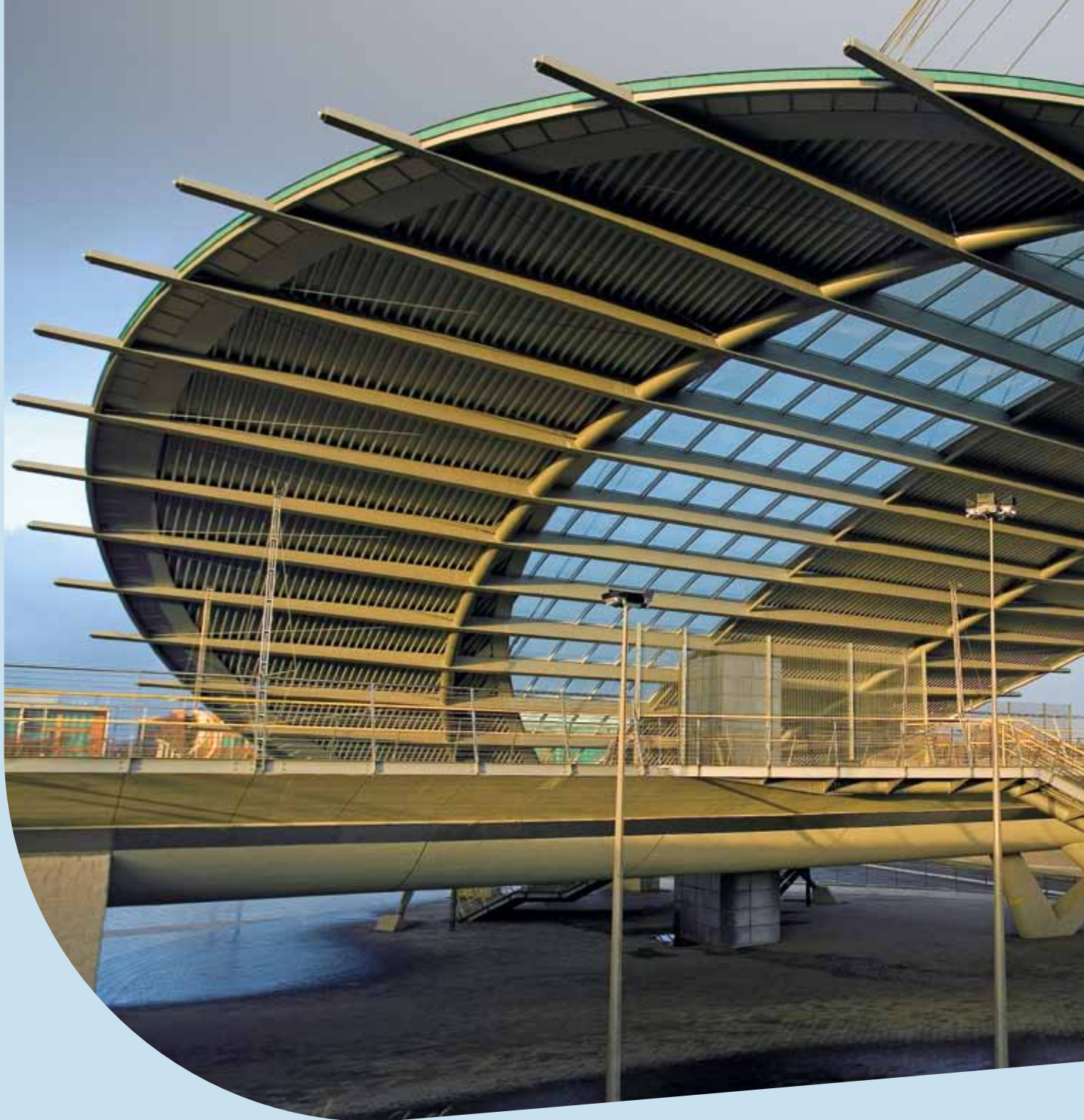




Plymouth University

Installer:	Dudley's Architectural Aluminium
Architect:	Building Design Partnership
Main Contractor:	HBG
System:	Kawneer AA100
Glass Type:	Toughened and heat soaked Pilkington Suncool™ 50/25 with Toughened and heat soaked white screen printed Pilkington Optifloat™ Clear. Toughened and heat soaked Pilkington Spandrel Glass mid grey with 60 mm insulation.





Central Park Gateway, Manchester.

Installer: Skylight Solutions Ltd
Architect: Aukett Fitzroy Robinson
Main Contractor: Balfour Beatty
System: Schuco FW60+
Glass Type: Pilkington **Optilam™**





Semple Street, Edinburgh.

Installer:	Charles Henshaw
Architect:	Cre8 Architecture
Main Contractor:	Bovis
System:	Schuco FW 60
Glass Type:	Laminated Pilkington Suncool™ H/P Neutral 70/40 with Toughened and heat soaked Pilkington Optifloat™ Clear. Pilkington Optifloat™ with Laminated Trosifol Blue B37 10 mm Toughened and heat soaked clear. Graduated screen print in standard white ceramic. Toughened Pilkington Spandrel Glass Black with Kingspan Kooltherm K7 insulation.



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.

Front cover image: Brindley Place, Birmingham.

Please note that imagery throughout is for illustration purposes only.



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



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Building Products - UK

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