



Pilkington **Insulight™**
with ScreenLine® blinds





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Pilkington **Insulight™** with ScreenLine® blinds combines the thermal control performance of an insulating glass unit (IGU) with the benefits of an integrated Venetian blind, pleated blind or pleated black-out. You can manage sun shading, solar heat gain and light control within a single product. Designed for installation in frames in glazed facades, Pilkington **Insulight™** with ScreenLine® blinds is also ideal in specialist applications in interior partitioning windows.

Why choose Pilkington **Insulight™** with ScreenLine® blinds?

Thermal control

In summer, solar heat gain can be controlled by tilting the slats to achieve total or partial screening. In winter, raising the slats or keeping them open maximises solar gain, while the inclusion of either Pilkington **K Glass™** or Pilkington **Optitherm™** in the unit provides improved thermal insulation. In addition a range of solar control coated options can be incorporated to optimise performance.

Sound Insulation

By incorporating Pilkington **Optiphon™** acoustic glass into the unit it can offer enhanced sound insulation.

Fire Resistance

Incorporating a glass from the Pilkington **Pyrostop®** or Pilkington **Pyrodur®** range allows the unit to be used where fire resistance is required.

Pilkington **Activ™**

Pilkington **Activ™** self-cleaning glass can be used for reduced maintenance and cleaning.

Visual Screening

The integral blinds are fully adjustable, and can be tilted or raised on certain models to achieve varying levels of privacy.

Benefits of Pilkington **Insulight™** with ScreenLine® blinds

Space Saving

With no casing, Pilkington **Insulight™** with ScreenLine® blinds not only blends in well with contemporary design, but also offers a significant saving of space in comparison with standard blinds.

Durable

As the blinds are sealed within the unit itself, they remain well protected from day-to-day damage. This not only means they retain their appearance but can also reduce maintenance costs.

Hygienic

The blind slats stay clean, making them suitable for places where hygiene is of prime importance.

Quality Control

Comprehensive tests carried out in order to determine the durability of the product showed that Pilkington **Insulight™** with ScreenLine® blinds can withstand regular use over several decades.

Variable Operating Methods

Knob, wand or motor control options are available. Knob or motor control is particularly useful as clinical and anti-ligature options for hospitals or mental health units.



Suitable for use in a wide range of applications

The versatile nature of these IGUs makes them ideal for many applications. They offer superior protection against solar radiation, light control and privacy makes them ideal for external façades, their slim fit and ease to maintain makes them the ideal choice for glazed internal partitions.

Pilkington **Insulight™** with ScreenLine® blinds are ideal for a range of environments including:

- Offices
- Hospitals/nursing homes
- Schools
- Banks
- Police stations
- High traffic public areas
- Laboratories

How can Pilkington **Insulight™** with ScreenLine® blinds meet your needs?

For external use

SL27 Venetian – 27 mm cavity with 16 mm wide blind slats. SL22 Venetian – 22 mm cavity with 12.5 mm wide blind slats.

Both systems can be manually tilted and raised via knob, wand, cord control and internal and external motor.

For internal use in partitioning

The models SL27C, SL27M, SL22C and SL22M are all suitable for use in both external glazing and internal partition applications. There are also slimline cavity options such as the SL20C, which are more suited to the domestic market.

For use in fire screens

Pilkington **Pyrostop®** / Pilkington **Pyrodur®** SL27C, SL27M, SL22C and SL22M.

Blinds

Where the SL27C or SL22C models are used the slats are tilted and raised using a knob, wand or cord. The mechanism that activates the movement of the slats is controlled via a magnetic link through the glass. The SL27M and



the SL22M model operates the slats via a hidden integral electric motor. The integral blinds are made size specific to the required unit size and are available in a variety of colours.



Colours

The slats are available in metallic, neutral, pastels or solid colours. The head rail and cord control are complimentary to the slats. The wand control is transparent and the knob is available in grey and white.



Pilkington **Insulight™** with ScreenLine® blinds SL27M and SL22M.

The SL27M and SL22M have clean architectural lines, are aesthetically pleasing and are designed for use in external facades & curtain walling applications, but can also be used for internal partitions.

The motorised systems within the blind head-rail allow simultaneous and synchronized movement of groups of blinds. Glazing of the motorised unit requires no additional installation work. The internal motor is connected to the external power supply.

Glazing

The unit can be combined with a number of various glass options; including toughened, laminated, acoustic, thermal/solar control, self-cleaning glass and fire resistant glass.

Colours

Colour code: S102



Colour code: S149



Colour code: S106



Colour code: S155



Colour code: S125



Colour code: S156



Colour code: S130



Colour code: S157



Colour code: S142



Pilkington **Pyrostop**[®] incorporating ScreenLine[®] blinds.

If the composition of the IGU includes a glass from the Pilkington **Pyrostop**[®] or Pilkington **Pyrodur**[®] range, the product offers fire resistance properties (class E and EI according to European regulations). It is for internal use only.

The glazing can be made with either SL27C, SL22C, SL27M or SL22M. The operating principle is identical for both the SL27 and SL22 models, both manual and motorised systems.

Colours

The slats are available in metallic, neutral, pastels or solid colours. The head rail is complimentary to the slats. The wand control is transparent and knob is available in grey and white.

Glazing

Fire resistant units must be installed into certified steel, aluminium or timber framing systems.

A range of insulating glass unit configurations have been tested into steel and timber framing systems for which fire test summaries are available. Various options are available for the non fire rated glass pane, including glass for impact resistance (toughened or laminated) and solar/thermal control.

For safety and security, the performance can be improved by assembling with Pilkington laminated glass.



The rotational frontal magnet control does not compromise the unit seal and guarantees perfect integrity of the double glazed insulating glass unit. Available on models SL20C, SL22C and SL27C.



Recommendations for storage, handling and installation of Pilkington **Insulight™** with ScreenLine® blinds

Storage

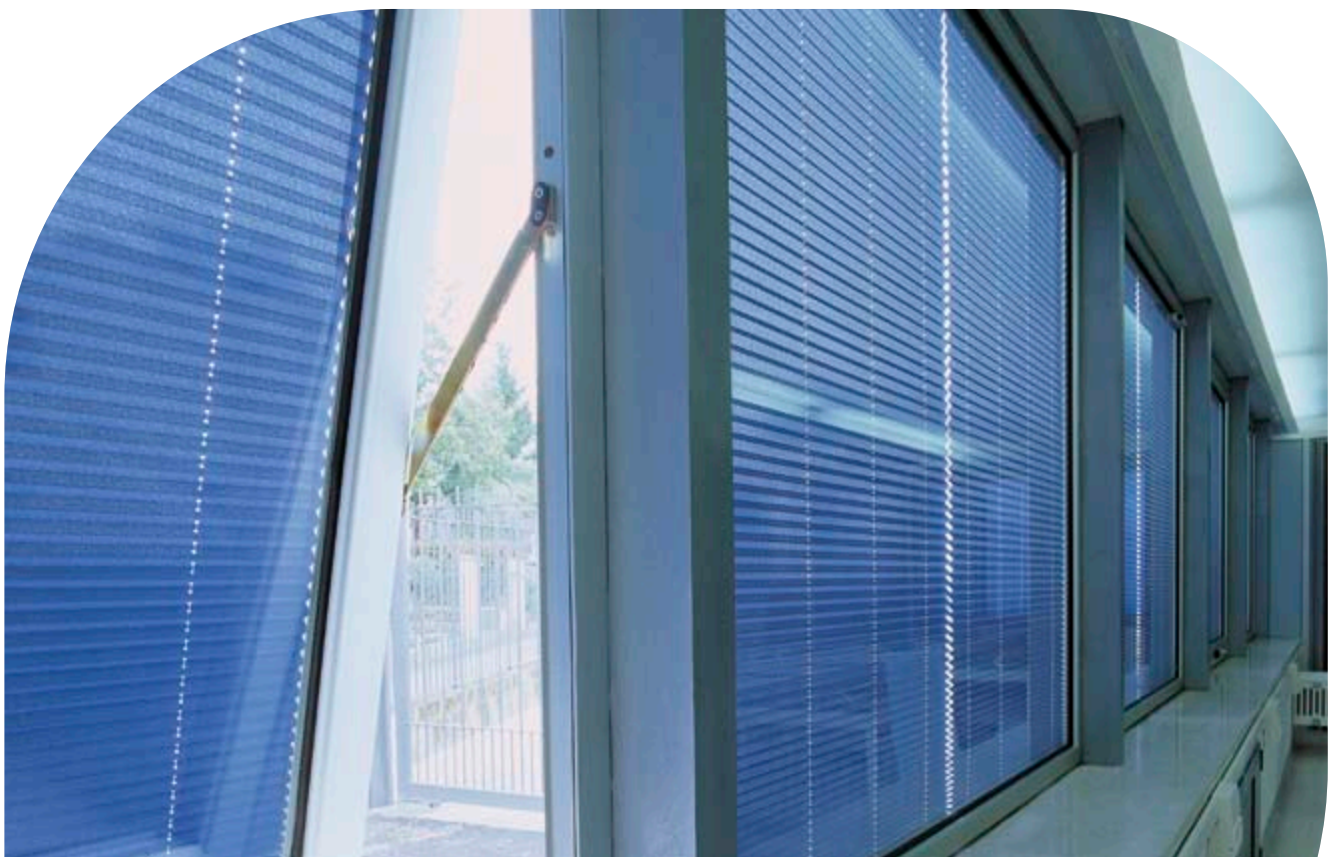
Units must be stored on a strong flat surface in the upright position and at a slight angle (6° recommended), with returns at right angles that support the glass over its entire height. The base on which the edges stand must be made of a suitable soft material. The glass units must be separated using spacers that are compatible with the surface of the glass, to allow circulation of air between the units, even when covered.

The maximum thickness of the stacks of glass must comply with the permissible load of the stacking equipment and, for IGUs, with the permissible stress of the sealant system used on them. Horizontal stacking is prohibited as this could damage the internal mechanism and blind

slats. IGUs must not be subjected to stress when clamping on trestles or other supports. The glass must be protected from all types of splashing (cement, lime, silicone, aluminium, etc).

The glass must be protected from abrasive dust to avoid surface damage (scratches), chipping and mechanical breakage. The glass must be sheltered from adverse weather conditions, damp and direct sunlight. Storing glass in stacks outdoors with no protection against sunlight may lead to thermal breakage.

The units should generally be packed and delivered the way up they are to be installed. They should be kept this way up until they are channel glazed. Pilkington **Insulight™** with ScreenLine® blinds must be stored and handled with the blind raised.





Handling

The units must be handled smoothly and kept virtually vertical. When it is necessary to use lifting bars with suction cups:

- The suction cups must be clean, dry and grease-free, and must be protected if coated glass is handled.
- The suction cups must, as far as is possible, be placed on the thickest component of the insulating glass unit.

Glazing

Pilkington **Insulight™** with ScreenLine® blinds must be channel glazed on all 4 sides, or at least 2 sides in the case of exterior structural sealant glazing. The glazing bead and the seal must be chosen carefully in order to avoid applying abnormal compressive stress on the glass.

Glazing in doors

For glass panels in doors the door must be fitted with a closer to avoid slamming or the blind should be ordered with interlaced slats.

Model	Tilt	Raise	Fire Resistance*	Knob	Wand	Cord	Motor	Slat mm	IGU Cavity	Internal	External
SL27C Venetian	✓	✓	✓	✓	✓	✓		16	27	✓	✓
SL27M Venetian	✓	✓	✓				✓	16	27	✓	✓
SL22C Venetian	✓	✓	✓	✓	✓	✓		12.5	22	✓	✓
SL22M Venetian	✓	✓	✓				✓	12.5	22	✓	✓
SL20C Venetian	✓	✓		✓	✓		✓	12.5	20	✓	✓
SL20C Pleated		✓		✓	✓		✓		20	✓	✓

* Fire resistance for internal use only.

Please speak to one of our technical sales advisors for further information and possibilities.



This publication provides only a general description of the products. 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 these products 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, "Insulight", "K Glass", "Optitherm", "Optiphon", "Activ" and "Optilam" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.



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