



Pilkington **Optitherm™** S1A

## Pilkington **Optitherm**™ S1A - technical performance

Glass product/inner pane	Light (%)			Solar radiant heat (%)				Total shading coefficient	U <sub>g</sub> -value [W/m <sup>2</sup> K]
	Transmittance	Reflectance external	Reflectance internal	Direct transmittance	Reflectance	Absorptance	Total transmission		Argon (90%)
Insulating glass units: 4 mm Pilkington <b>Optifloat</b> ™ Clear outer pane – 16 mm argon – 4 mm inner pane									
4 mm Pilkington <b>Optitherm</b> ™ S1A	76	16	18	46	36	17	55	0.63	1.0
Triple insulating glass units: 4 mm Pilkington <b>Optitherm</b> ™ S1A outer pane – 12 mm argon – 4 mm Pilkington <b>Optifloat</b> ™ Clear – 12 mm argon – 4 mm inner pane									
4 mm Pilkington <b>Optitherm</b> ™ S1A	64	23	23	33	42	25	40	0.46	0.7

The above performance data has been determined in accordance with EN 410 and EN 673.

Pilkington **Optitherm**™ S1A low emissivity glass meets all current requirements for modern low emissivity glass.

Thanks to its low emissivity coating that provides a U<sub>g</sub> value of 1.0 W/m<sup>2</sup>K, Pilkington **Optitherm**™ S1A is already known for its ability to reduce heating costs and avoid energy loss. This recent upgrade optimises these proven qualities to provide additional benefits. Improved light transmission and total solar heat transmittance (g-value) now enhance room comfort by reducing window draughts, which ensures evenly distributed heat throughout.

Saving energy has become an increasingly important issue and in that area Pilkington **Optitherm**™ S1A makes a huge contribution. Carbon Dioxide (CO<sub>2</sub>) output is reduced, helping to protect the environment, whilst the energy efficiency it offers, reduces heating costs.

### Features and benefits:

- Pilkington **Optitherm**™ S1A reduces heating costs and actively helps to increase well-being.
- Better use of the living space by avoiding cold drafts from windows.
- Energy efficient way to reduce heating bills and environmental impact through reduced CO<sub>2</sub> emissions.
- Enhances internal living environment through high viewing transparency with 64% light transmittance and 40% total solar heat transmittance (within a 4/12/4/12/4 IGU construction).
- U<sub>g</sub>-value of 1.0 W/m<sup>2</sup>K in a double-glazed unit, in accordance with EN standards.
- Available in a wide range of products for various applications.
- Available in combination with Pilkington **Optilam**™ and Pilkington **Optiphon**™ for impact resistance, increased security or improved noise reduction.

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