PILKINGTON

Pilkington **Suncool**™ Solar Control Range (UK)
Performance data

Table 1 - Pilkington **Suncool**™

6 mm Pilkington **Optifloat**™ Clear inner pane and 16 mm argon-filled cavity, unless otherwise indicated.

Outer pane as indicated below.

Solar control with thermal insulation (low-e)

Product Description	Light		Solar Radiant Heat				U_g-value [W/m²K]	Performance inc. acoustic Light Transmittance / g-value (R_w) 6 mm + 6 mm panes
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Argon (90%)	
Products available as Pilkington **Suncool**™ Pro T (toughenable)								
Pilkington **Suncool**™ – superior solar control with thermal insulation (low-e)								
6 mm 70/40	0.73	0.10	0.40	0.31	0.29	0.43	1.1	73/43 (31 dB)
6 mm 71/39	0.71	0.13	0.36	0.34	0.30	0.39	1.0	71/39 (31 dB)
6 mm 70/35	0.70	0.16	0.34	0.35	0.31	0.37	1.0	70/37 (31 dB)
6 mm 66/33	0.66	0.16	0.33	0.34	0.33	0.36	1.0	66/36 (31 dB)
6 mm 60/31	0.60	0.11	0.29	0.32	0.39	0.32	1.0	60/32 (31 dB)
6 mm Silver 50/30	0.50	0.40	0.29	0.47	0.24	0.32	1.0	50/32 (31 dB)
6 mm 50/25	0.50	0.18	0.24	0.32	0.44	0.27	1.0	50/27 (31 dB)
6 mm 40/22	0.40	0.20	0.20	0.34	0.46	0.23	1.1	40/23 (31 dB)
6 mm 30/16	0.29	0.26	0.16	0.37	0.47	0.19	1.0	29/19 (31 dB)
Pilkington **Suncool**™ OW* (low iron) – superior solar control with thermal insulation (low-e)								
6 mm 70/40	0.75	0.10	0.43	0.37	0.20	0.45	1.1	75/45 (31 dB)
6 mm 70/35	0.72	0.16	0.37	0.42	0.21	0.38	1.0	72/38 (31 dB)
6 mm 66/33	0.68	0.17	0.36	0.41	0.23	0.37	1.0	68/37 (31 dB)
6 mm 60/31	0.62	0.11	0.31	0.39	0.30	0.33	1.0	62/33 (31 dB)
6 mm 50/25	0.52	0.19	0.26	0.38	0.36	0.28	1.0	52/28 (31 dB)
6 mm 40/22	0.41	0.21	0.22	0.40	0.38	0.24	1.1	41/24 (31 dB)
6 mm 30/16	0.30	0.26	0.17	0.43	0.40	0.19	1.0	30/19 (31 dB)
Pilkington **Suncool**™ One – mid-range solar control with thermal insulation (low-e)								
6 mm 60/40**	0.60	0.23	0.38	0.34	0.28	0.42	1.0	60/42 (31 dB)
6 mm 30/21	0.31	0.32	0.18	0.38	0.44	0.21	1.0	31/21 (31 dB)

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

* With 6 mm Pilkington **Optiwhite**™ inner pane

** Single stock product available annealed or toughened

Table 2 - Pilkington **Suncool Optilam**™ - Laminated glass

6 mm Pilkington **Optifloat**™ Clear T toughened inner pane, with 16 mm argon-filled cavities, unless otherwise indicated.
Outer pane as indicated below.

Solar control with thermal insulation (low-e)

Product Description	Light		Solar Radiant Heat				U_g-value [W/m²K]	Performance inc. acoustic Light Transmittance / g-value (R_w) 8.8 mm + 6 mm panes
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Argon (90%)	
Pilkington **Suncool Optilam**™ – laminated superior solar control with thermal insulation (low-e)								
8.8 mm* 70/40	0.72	0.10	0.38	0.26	0.36	0.41	1.1	72/41 (39 dB)
8.8 mm* 70/35	0.70	0.16	0.33	0.29	0.38	0.36	1.0	70/36 (39 dB)
8.8 mm* 66/33	0.66	0.16	0.32	0.31	0.37	0.35	1.0	66/35 (39 dB)
8.8 mm* 60/31	0.59	0.13	0.29	0.29	0.42	0.31	1.0	59/31 (39 dB)
8.8 mm* 50/25	0.50	0.19	0.24	0.32	0.44	0.26	1.0	50/26 (39 dB)
Pilkington **Suncool Optilam**™ Q – laminated superior solar control with thermal insulation (low-e)								
8.8 mm* 70**	0.69	0.10	0.30	0.29	0.41	0.33	1.0	69/33 (39 dB)
8.8 mm* 60**	0.59	0.09	0.24	0.32	0.44	0.27	1.0	59/27 (39 dB)
8.8 mm* 50**	0.49	0.08	0.20	0.31	0.49	0.22	1.0	49/22 (39 dB)
Pilkington **Activ Suncool Optilam**™ – laminated superior solar control with thermal insulation (low-e) and self-cleaning								
8.8 mm* 70/35	0.65	0.21	0.31	0.35	0.34	0.34	1.0	65/34 (39 dB)
8.8 mm* 66/33	0.61	0.21	0.30	0.33	0.37	0.32	1.0	61/32 (39 dB)
8.8 mm* 50/25	0.47	0.23	0.22	0.33	0.45	0.25	1.0	47/25 (39 dB)

The above performance data has been determined in accordance with BS EN 410 and BS EN 673.
* Also available in other thickness upon requests
** Annealed only

Table 3 - Pilkington **Suncool**™ - Triple insulating glass units

6 mm Pilkington **K Glass**™ S T inner pane, 16 mm argon-filled cavity, 4 mm Pilkington **Optifloat**™ Clear T centre pane, 16 mm argon-filled cavity.
Outer pane as indicated below.

Solar control with thermal insulation (low-e)

Product Description	Light		Solar Radiant Heat				U_g-value [W/m²K]	Performance Light Transmittance / g-value 6 mm + 4 mm + 6 mm panes
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Argon (90%)	
Products available as Pilkington **Suncool**™ Pro T (toughenable)								
Pilkington **Suncool**™ – superior solar control with thermal insulation (low-e)								
6 mm 70/35	0.64	0.18	0.30	0.36	0.34	0.35	0.6	64/35
6 mm 66/33	0.60	0.18	0.29	0.35	0.36	0.33	0.6	60/33
6 mm 60/31	0.55	0.13	0.26	0.33	0.41	0.30	0.6	55/30
6 mm 50/25	0.46	0.19	0.21	0.33	0.46	0.25	0.6	46/25

General Information

Safety

Insulating Glass Units with Pilkington toughened glass, Pilkington **Optilam**™ laminated glass range can meet the recommendations for the glazing of hazardous areas as given in BS 6262: Part 4: 2018, and comply with the relevant parts of the Building Regulations, such as Part K in England.

Thermal safety

At all stages of design and construction, the possibility of excessive thermal stress being developed in the glass by solar radiation should be considered. It is the responsibility of the customer or specifier to ensure that annealed glass is thermally safe for each application.

Wind loading

The method of support for an insulating glass unit may affect its ability to resist wind loads and/or increase deflection over and above allowable limits. We recommend that this is considered when calculating glass thicknesses.

Pilkington **Suncool**™ **Approved Partners**

For a list of approved Pilkington **Suncool**™ partners, please visit www.pilkington.co.uk/suncoolpartners

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, "Suncool", "Optifloat", "Optilam", "Activ" and "Optiwhite" are trademarks owned by Nippon Sheet Glass Co. Ltd, or a subsidiary thereof.

UK CA Marking confirms that a product meets the requirements of its relevant UK-designated standard and can be placed on the market in Great Britain. The UK CA Marking Declaration of Performance for each product can be found at www.pilkington.com/ukca

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11061 – September 2023