ENG / EN standards



Architectural and residential GLAZING

Technical performance of Pilkington Suncool[®] & Optitherm[®] & Lifeglass[®] coating

Pilkington Suncool® and Optitherm® series

TECHNICAL DATA / EN		Appearance		neutral	blue	silver	bronze		
Product	Light transmittance LT	Light reflectance LRout	Direct energy transmittance DET	Energy reflectance ER	Energy absorptance EA	Solar factor SF	Shading coefficient SC	U _g -value (air-filled) U_g(air)	U _g -v (argor U_g (a
	%	%	%	%	%	%	-	W/m ² K	W
Pilkington Suncool® 70/40 DS PROT	73	10	40	31	29	43	0.49	1.4	1
Pilkington Suncool® 70/35 DS PROT	70	16	35	35	30	37	0.43	1.3	1
Pilkington Suncool® 66/33 DS PROT	67	16	34	34	32	36	0.41	1.3	1
Pilkington Suncool® 50/25 DS PROT	51	18	25	32	43	27	0.31	1.3	1
Pilkington Suncool® 40/22 DS PROT	40	20	20	34	46	23	0.26	1.3	1
Pilkington Suncool® 30/16 DS PROT	30	26	16	37	47	19	0.22	1.3	1
Pilkington Suncool® 30/17 os	30	25	16	37	47	18	0.21	1.3	1
Pilkington Optitherm [®] S3	81	11	55	23	22	58	0.67	1.4	1
Pilkington Suncool®- Blue 50/25 DS PROT	-R 47	27	26	36	38	28	0.32	1.3	1
Pilkington Suncool®- Silver 50/27 0 PROT	- R 47	31	27	36	37	29	0.33	1.3	1
Pilkington Suncool®- Bronze 45/25 DS PROT	-R 43	24	23	38	38	26	0.30	1.3	1
Pilkington Suncool®- Green 45/25 DS PROT	R 44	34	26	40	34	28	0.32	1.3	1

All values are calculated* for the central area of the IG unit 6| - 16 Ar - 4 Optifloat according to EN 410 and EN 673 standards.

Both temperable and non-temperable versions available PROT Only temperable versions available



- Glass series powered by a sophisticated Double Silver[®] PVD coating with over 15 separate layers

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Pilkington **Suncool**

Glass series powered by a sophisticated PVD coating with over 15 separate layers. Applied to the glass substrate it allows to achieve extremely high values as to light transmittance, excellent energy saving and solar control properties along with maximizing selectivity.

Pilkington Suncool[®] 70/40 Pro T combines maximum transparency with neutral colour and excellent solar control properties. Recommended for buildings requiring maximum natural light, e.g. residential houses.

Pilkington Suncool® 70/35 Pro T represents the up-to-date supplement to the Suncool® products range with a neutral tint and light reflectance close to the ordinary float glass. It features an outstanding selectivity due to a very low solar factor and high transparency.

Pilkington Suncool® 66/33 Pro T is a versatile architectural glass with high selectivity, which fits perfectly both commercial and residential buildings. Low outside reflectance, excellent solar factor and high light transmittance.

Pilkington Suncool® 50/25 Pro T is a product with a neutral colour tint and minimal solar heat gain. Excellent choice for floor-to-ceiling glazing when reduced power consumption of air-conditioning systems is a must. Due to high light transmittance, the inner spaces of the building gain lots of natural light.

Pilkington Suncool® 40/22 Pro T is an ideal solution in circumstances when maximum solar control has to be combined with transparency. Due to a very low solar factor this product fits well for the skylight glazing (e.g. atriums) reducing the total solar heat gain despite the intensive sunlight.

Pilkington Suncool® 30/16 Pro T offers the best protection from the solar radiation, regarding both light and heat. It finds its best use in large-area façades and horizontal roof glazing. Due to an extremely low solar factor (19%) this product is especially effective when keeping solar heat gain under control is paramount.

Pilkington Optitherm[®] S3 Pro T low-emissivity coating offers maximum transparency and neutrality. Excellent energy-saving solution for the residential buildings.

Pilkington Suncool®-R Blue 50/25 Pro T features a shiny blue appearance. Due to the unique magnetron coating technology it lets in a neutral light inside the building without any colour distorsion. High light transmittance and selectivity of this product allow to get a comfortable inner environment with a coloured exteriour.

Pilkington Suncool®-R Silver 50/27 Pro T has a shiny silvery appearance with highly reflective exterior. Due to the unique magnetron coating technology it lets in a neutral light inside the building without any tint. This product fits ideally projects where high illumination inside the building goes along with high reflection outside.

Pilkington Suncool[®]-R Bronze 45/25 Pro T features an appealing bronze colour from the outside. Due to the unique magnetron coating technology it lets in a neutral light inside the building without any tint. Excellent solar control properties make this product an ideal solution for southern regions.

Pilkington Suncool®-R Green 45/25 Pro T has a highly reflective exterior with a shiny green tint. Due to the unique magnetron coating technology it lets in a neutral light inside the building without colour distortions. It fits best facades which should both provide a lot of illumination inside the building and have a high external reflection.

The capabilities and specialities of these products are described in the Processing Guide or contact Pilkington for clarification.

Pilkington Lifeglass® series

TECHNICAL DATA	/ EN			Appeara	nce n	eutral	blue	silver	brc
Product	Light transmittance LT	Light reflectance LRout	Direct energy transmittance DET	Energy reflectance ER	Energy absorptance EA	Solar factor SF	Shading coefficient SC	U _g -value (air-filled) U_g(air)	U _g -v (argor U_g (a
	%	%	%	%	%	%	-	W/m²K	W/
Pilkington Lifeglass® Plus oo	73	15	42	33	25	44	0.51	1.3	1
Pilkington Lifeglass® Clear os	75	13	46	29	24	49	0.56	1.4	1
Pilkington Lifeglass®Blue o	68	20	35	40	25	37	0.43	1.3	1
Pilkington Lifeglass [®] Bronze os	68	18	37	39	24	39	0.45	1.3	1
Pilkington Lifeglass® Silver os	56	32	30	44	26	32	0.37	1.3	1.

All values are calculated* for the central area of the IG unit 4 - 16 Ar - 4 Optifloat according to EN 410 and EN 673 standards.



Pilkington Lifeglass®



Created by fine-tuning of the Double Silver® state-of-the-art technology



Comfortable for both winter and summer



High light transmittance



Suit to any climate



Wide range of appealing colour tints



 Glass series powered by a sophisticated Double Silver[®] PVD coating with over 15 separate layers

The capabilities and specialities of these products are described in the Processing Guide or contact Pilkington for clarification.

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APPLICATION AREAS

		Pilkington Suncool [®] -R Blue 50/25 Pro T	Architectural
Pilkington Suncool [®] 70/40	Both	Pilkington Suncool [®] -R Bronze 45/25 Pro T	Architectural
Pilkington Suncool [®] 70/40 Pro T	Architectural	Pilkington Suncool [®] -R Green 45/25 Pro T	Architectural
Pilkington Suncool [®] 70/35	Both	Pilkington Optitherm [®] S3 Pro T	Architectural
Pilkington Suncool [®] 70/35 Pro T	Architectural	Pilkington LifeGlass [®] Clear	Residential
Pilkington Suncool [®] 66/33	Both	Pilkington LifeGlass [®] Plus	Residential
Pilkington Suncool [®] 66/33 Pro T	Architectural	Pilkington LifeGlass [®] Silver	Residential
Pilkington Suncool [®] 50/25	Both	Pilkington LifeGlass [®] Bronze	Residential
Pilkington Suncool [®] 50/25 Pro T	Architectural	Pilkington LifeGlass [®] Blue	Residential
Pilkington Suncool [®] 40/22	Both	Pilkington Optitherm [®] S3	Residential
Pilkington Suncool [®] 40/22 Pro T	Architectural	Pilkington Optfloat [®] Clear	Both
Pilkington Suncool [®] 30/17	Both	Pilkington Optilam [®]	Both
Pilkington Suncool [®] 30/16 Pro T	Architectural	Pilkington Optiwhite®	Both
Pilkington Suncool [®] -R Silver 50/27 Pro T	Architectural	Pilkington Optiphone®	Both

TECHNICAL GLOSSARY

Light Transmittance (LT, %)	 percentage of incident visible light directly transmitted through the glass.
Light Reflectance Out (LRout, %)	 percentage of incident visible light directly reflected from the glass back indoors.
Direct Energy Transmittance (DET, %)	 percentage of incident solar energy directly transmitted through the glass.
Energy Reflectance (ER, %)	 percentage of incident solar energy directly reflected from the glass back outdoors.
Energy Absorbance (EA, %)	 percentage of incident solar energy absorbed into the glass.
Solar Factor (SF, %) or Solar heat gain coefficient (SHGC)	 percentage of solar energy incident on the glass that is transferred indoors both directly and indirectly through the glass.
Shading Coefficient (SC, %)	— an alternative measure of the heat gain through glass from solar radiation. Specifically, it is the ratio between the solar heat gain for a particular type of glass and that of double-strength clear glass. A lower shading coefficient indicates lower solar heat gain.
Ug-value (W/m ² *K)	— is a measure of the heat gain or loss through glass due to the difference between indoor and outdoor air temperatures. It is also referred to as the overall coefficient of heat transfer. A lower Ug-value indicates better insulating properties.





LLC «Pilkington Glass»

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