

Glass Range for Architects and Specifiers

Technical Information Datasheet

Table 1 – Performance Data Pilkington **Insulight™** with 6 mm Pilkington **Optifloat™** Inner Pane.

Product Description	Light		Solar Radiant Heat					Shading Coefficient			U-value (W/m²K)	Unit Maximum Sizes†		Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total	Argon (90%)	Annealed (mm)	Toughened (mm)		
Pilkington Insulight™ (with 6 mm Pilkington Optifloat™ inner pane and 16 mm 90% argon filled cavity – unless otherwise indicated)														
Pilkington Suncool™														
6 mm 70/40	0.70	0.10	0.38	0.28	0.34	0.43	0.44	0.05	0.49	1.1	3000 x 1600	4500 x 2400	70/43	
6 mm 70/35	0.69	0.16	0.34	0.35	0.31	0.37	0.39	0.04	0.43	1.0	3000 x 1600	4500 x 2400	69/37	
6 mm 66/33	0.65	0.16	0.32	0.35	0.33	0.36	0.37	0.04	0.41	1.0	3000 x 1600	4500 x 2400	65/36	
6 mm Silver 50/30	0.49	0.39	0.28	0.43	0.29	0.31	0.32	0.04	0.36	1.0	3000 x 1600	4500 x 2400	49/31	
6 mm Blue 50/27	0.49	0.19	0.25	0.35	0.40	0.28	0.28	0.04	0.32	1.1	3000 x 1600	4500 x 2400	49/28	
6 mm 50/25	0.49	0.18	0.24	0.33	0.43	0.27	0.27	0.04	0.31	1.0	3000 x 1600	4500 x 2400	49/27	
6 mm 40/22	0.39	0.20	0.19	0.35	0.46	0.23	0.22	0.04	0.26	1.1	3000 x 1600	4500 x 2400	39/23	
6 mm 30/17	0.30	0.25	0.15	0.37	0.48	0.19	0.18	0.04	0.22	1.1	3000 x 1600	4500 x 2400	30/19	
Pilkington Suncool™ OW														
6 mm 70/40	0.71	0.10	0.40	0.39	0.21	0.45	0.46	0.06	0.52	1.1	3000 x 1600	4500 x 2400	71/45	
6 mm 70/35	0.71	0.16	0.35	0.47	0.18	0.39	0.41	0.04	0.45	1.0	3000 x 1600	4500 x 2400	71/39	
6 mm 66/33	0.67	0.17	0.34	0.47	0.19	0.37	0.39	0.04	0.43	1.0	3000 x 1600	4500 x 2400	67/37	
6 mm Blue 50/27	0.51	0.20	0.26	0.46	0.28	0.29	0.30	0.03	0.33	1.1	3000 x 1600	4500 x 2400	51/29	
6 mm 50/25	0.51	0.19	0.25	0.44	0.31	0.28	0.29	0.03	0.32	1.0	3000 x 1600	4500 x 2400	51/28	
6 mm 40/22	0.40	0.21	0.20	0.46	0.34	0.24	0.24	0.04	0.28	1.1	3000 x 1600	4500 x 2400	40/24	
Pilkington Eclipse Advantage™														
6 mm Clear	0.60	0.29	0.47	0.22	0.31	0.55	0.54	0.09	0.63	1.6	3000 x 1600	4500 x 2400	60/55	
6 mm Blue-Green	0.51	0.21	0.31	0.13	0.56	0.38	0.36	0.08	0.44	1.6	3000 x 1600	4500 x 2400	51/38	
6 mm Bronze	0.34	0.13	0.28	0.11	0.61	0.35	0.32	0.08	0.40	1.6	3000 x 1600	4500 x 2400	34/35	
6 mm Grey	0.29	0.10	0.24	0.09	0.67	0.31	0.27	0.09	0.36	1.6	3000 x 1600	4500 x 2400	29/31	
6 mm EverGreen	0.43	0.17	0.22	0.10	0.68	0.28	0.25	0.07	0.32	1.6	3000 x 1600	4500 x 2400	43/28	
6 mm Arctic Blue	0.35	0.13	0.21	0.09	0.70	0.28	0.24	0.08	0.32	1.6	3000 x 1600	4500 x 2400	35/28	
6 mm Pilkington Solar-E™	0.53	0.11	0.38	0.10	0.52	0.45	0.43	0.09	0.52	1.5	3000 x 1600	4500 x 2400	53/45	

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

† Maximum unit sizes are for guidance only. These are not recommended for glazing sizes. For further information please consult with the processor.

For other glass combinations, cavities, gases and thicknesses please visit Pilkington Spectrum at www.pilkington.com/spectrum

For performance data relating to other Pilkington products please refer to our product specific literature.

Table 2 – Performance Data Pilkington Insulight™ with 6 mm Pilkington K Glass™ Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficient			U-value (W/m²K)	Unit Maximum Sizes†		Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total		Argon (90%)	Annealed (mm)	
Pilkington Insulight™ (with 6 mm Pilkington K Glass™ inner pane and 16 mm 90% argon filled cavity - unless otherwise indicated)													
Pilkington Optifloat™ Clear													
6 mm	0.73	0.17	0.55	0.15	0.30	0.68	0.64	0.16	0.80	1.5	3000 x 1600	4500 x 2400	73/68
Pilkington Optiwhite™													
6 mm	0.75	0.18	0.62	0.17	0.21	0.77	0.71	0.18	0.89	1.5	3000 x 1600	4500 x 2400	75/77
Pilkington Optifloat™ Tint													
6 mm Green	0.62	0.14	0.34	0.09	0.57	0.43	0.40	0.10	0.50	1.5	3000 x 1600	4500 x 2400	62/43
6 mm Bronze	0.41	0.08	0.33	0.08	0.59	0.44	0.38	0.13	0.51	1.5	3000 x 1600	4500 x 2400	41/44
6 mm Grey	0.36	0.08	0.31	0.08	0.61	0.42	0.36	0.12	0.48	1.5	3000 x 1600	4500 x 2400	36/42
6 mm Pilkington Arctic Blue™	0.44	0.09	0.27	0.07	0.66	0.35	0.31	0.10	0.41	1.5	3000 x 1600	4500 x 2400	44/35
Pilkington Eclipse Advantage™													
6 mm Clear	0.56	0.31	0.42	0.23	0.35	0.53	0.49	0.12	0.61	1.3	3000 x 1600	4500 x 2400	56/53
6 mm Blue-Green	0.47	0.23	0.28	0.14	0.58	0.36	0.32	0.09	0.41	1.3	3000 x 1600	4500 x 2400	47/36
6 mm Bronze	0.32	0.13	0.25	0.11	0.64	0.34	0.28	0.11	0.39	1.3	3000 x 1600	4500 x 2400	32/34
6 mm Grey	0.27	0.11	0.21	0.10	0.69	0.29	0.24	0.10	0.34	1.3	3000 x 1600	4500 x 2400	27/29
6 mm EverGreen	0.40	0.18	0.19	0.10	0.71	0.26	0.22	0.08	0.30	1.3	3000 x 1600	4500 x 2400	40/26
6 mm Arctic Blue	0.33	0.14	0.19	0.09	0.72	0.26	0.22	0.08	0.30	1.3	3000 x 1600	4500 x 2400	33/26
6 mm Pilkington Solar-E™	0.49	0.12	0.34	0.10	0.56	0.43	0.39	0.10	0.49	1.3	3000 x 1600	4500 x 2400	49/43

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

† Maximum unit sizes are for guidance only. These are not recommended for glazing sizes. For further information please consult with the processor.

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For performance data relating to other Pilkington products please refer to our product specific literature.

Table 3 – Performance Data Pilkington Insulight™ with Pilkington K Glass™ OW Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficient			U-value (W/m²K)	Unit Maximum Sizes†		Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total		Argon (90%)	Annealed (mm)	
Pilkington Insulight™ (with 4 mm Pilkington K Glass™ OW inner pane and 16 mm 90% argon filled cavity)													
Pilkington Optiwhite™													
4 mm	0.78	0.18	0.71	0.18	0.11	0.79	0.82	0.09	0.91	1.5	2000 x 1200	2000 x 1500	78/79
Pilkington Insulight™ (with 6 mm Pilkington K Glass™ OW inner pane and 16 mm 90% argon filled cavity)													
Pilkington Optiwhite™													
6 mm	0.78	0.18	0.70	0.18	0.12	0.78	0.81	0.09	0.90	1.5	3000 x 1600	4500 x 2400	78/78

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

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Table 4 – Performance Data Pilkington Insulight™ with 4 mm Pilkington K Glass™ S Inner Pane.
Pilkington K Glass™ S is the soft coat addition to the Pilkington K Glass™ range.

Product Description	Light		Solar Radiant Heat				Shading Coefficient			U-value (W/m²K)	Unit Maximum Sizes†		Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total		Argon (90%)	Annealed (mm)	
Pilkington Insulight™ (with 4 mm Pilkington K Glass™ S inner pane and 16 mm 90% argon filled cavity)													
Pilkington Optifloat™ Clear													
4 mm	0.80	0.12	0.61	0.20	0.19	0.71	0.70	0.12	0.82	1.2	2000 x 1200	2000 x 1500	80/71
Pilkington Optiwhite™													
4 mm	0.81	0.12	0.64	0.22	0.14	0.75	0.73	0.13	0.86	1.2	2000 x 1200	2000 x 1500	81/75
Pilkington Optifloat™ Tint													
4 mm Green	0.71	0.10	0.42	0.10	0.48	0.50	0.49	0.08	0.57	1.2	2000 x 1200	2000 x 1500	71/50
4 mm Bronze	0.54	0.08	0.42	0.12	0.46	0.50	0.48	0.10	0.58	1.2	2000 x 1200	2000 x 1500	54/50
4 mm Grey	0.50	0.07	0.40	0.12	0.48	0.49	0.46	0.10	0.56	1.2	2000 x 1200	2000 x 1500	50/49
4 mm Pilkington Arctic Blue™	0.57	0.08	0.36	0.09	0.55	0.43	0.41	0.08	0.49	1.2	2000 x 1200	2000 x 1500	57/43
Pilkington Eclipse Advantage™													
6 mm Clear	0.60	0.28	0.45	0.26	0.29	0.53	0.51	0.10	0.61	1.2	2000 x 1200	2000 x 1500	60/53
6 mm Blue-Green	0.54	0.22	0.33	0.16	0.51	0.40	0.39	0.07	0.46	1.2	2000 x 1200	2000 x 1500	54/40
6 mm Bronze	0.41	0.16	0.31	0.16	0.53	0.39	0.36	0.09	0.45	1.2	2000 x 1200	2000 x 1500	41/39
6 mm Grey	0.37	0.14	0.27	0.14	0.58	0.35	0.32	0.08	0.40	1.2	2000 x 1200	2000 x 1500	37/35
6 mm EverGreen	0.48	0.20	0.26	0.12	0.62	0.32	0.30	0.07	0.37	1.2	2000 x 1200	2000 x 1500	48/32
6 mm Arctic Blue	0.42	0.16	0.26	0.12	0.62	0.32	0.29	0.08	0.37	1.2	2000 x 1200	2000 x 1500	42/32

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

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For performance data relating to other Pilkington products please refer to our product specific literature.

Table 5 – Performance Data Pilkington Insulight™ with 6 mm Pilkington Optifloat™ Inner Pane unless otherwise stated.

Product Description	Light		Solar Radiant Heat				Shading Coefficient			U-value (W/m²K)	Unit Maximum Sizes†		Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total		Argon (90%)	Annealed (mm)	
Pilkington Insulight™ (with 4 mm Pilkington Optifloat™ inner pane and 16 mm 90% argon filled cavity)													
4 mm Pilkington Activ™ Clear	0.78	0.20	0.72	0.19	0.09	0.76	0.84	0.05	0.89	2.6	2000 x 1200	2000 x 1500	78/76
4 mm Pilkington Activ™ Neutral	0.45	0.30	0.41	0.24	0.35	0.47	0.48	0.06	0.54	2.6	2000 x 1200	2000 x 1500	45/47
4 mm Pilkington Activ™ Blue	0.53	0.18	0.39	0.15	0.46	0.45	0.45	0.07	0.52	2.6	2000 x 1200	2000 x 1500	53/45
Pilkington Insulight™ (with 4 mm Pilkington K Glass™ inner pane and 16 mm 90% argon filled cavity)													
4 mm Pilkington Activ™ Clear	0.71	0.23	0.61	0.22	0.17	0.72	0.71	0.13	0.84	1.5	2000 x 1200	2000 x 1500	71/72
4 mm Pilkington Activ™ Neutral	0.42	0.31	0.35	0.25	0.40	0.43	0.40	0.10	0.50	1.5	2000 x 1200	2000 x 1500	42/43
4 mm Pilkington Activ™ Blue	0.49	0.15	0.33	0.12	0.55	0.41	0.38	0.10	0.48	1.5	2000 x 1200	2000 x 1500	49/41
Pilkington Insulight™ (with 4 mm Pilkington K Glass™ S inner pane and 16 mm 90% argon filled cavity)													
4 mm Pilkington Activ™ Clear	0.75	0.18	0.59	0.26	0.15	0.69	0.68	0.12	0.80	1.2	2000 x 1200	2000 x 1500	75/69
4 mm Pilkington Activ™ Neutral	0.44	0.29	0.34	0.26	0.40	0.41	0.39	0.09	0.48	1.2	2000 x 1200	2000 x 1500	44/41
4 mm Pilkington Activ™ Blue	0.52	0.17	0.33	0.16	0.51	0.40	0.38	0.08	0.46	1.2	2000 x 1200	2000 x 1500	52/40
Pilkington Insulight™ (with 6 mm Pilkington Optifloat™ inner pane and 16 mm 90% argon filled cavity)													
6 mm Pilkington Activ™ Clear	0.75	0.20	0.66	0.18	0.16	0.74	0.76	0.09	0.85	2.6	3000 x 1600	4500 x 2400	75/74
6 mm Pilkington Activ™ Neutral	0.44	0.29	0.36	0.22	0.42	0.44	0.42	0.09	0.51	2.5	3000 x 1600	4500 x 2400	44/44
6 mm Pilkington Activ™ Blue	0.44	0.16	0.28	0.14	0.58	0.36	0.32	0.09	0.41	2.6	3000 x 1600	4500 x 2400	44/36
10 mm Pilkington Activ™ Blue	0.31	0.14	0.18	0.12	0.70	0.27	0.20	0.11	0.31	2.6	3000 x 1600	4500 x 2400	31/27
Pilkington Insulight™ (with 6 mm Pilkington K Glass™ inner pane and 16 mm 90% argon filled cavity)													
6 mm Pilkington Activ™ Clear	0.70	0.23	0.57	0.21	0.22	0.71	0.66	0.16	0.82	1.5	3000 x 1600	4500 x 2400	70/71
6 mm Pilkington Activ™ Neutral	0.40	0.30	0.31	0.23	0.46	0.41	0.36	0.12	0.48	1.5	3000 x 1600	4500 x 2400	40/41
6 mm Pilkington Activ™ Blue	0.40	0.17	0.24	0.14	0.62	0.32	0.28	0.09	0.37	1.5	3000 x 1600	4500 x 2400	40/32
10 mm Pilkington Activ™ Blue	0.28	0.15	0.15	0.13	0.72	0.22	0.18	0.08	0.26	1.5	3000 x 1600	4500 x 2400	28/22
Pilkington Insulight™ (with 6 mm Pilkington K Glass™ S inner pane and 16 mm 90% argon filled cavity)													
6 mm Pilkington Activ™ Clear	0.73	0.17	0.54	0.25	0.21	0.67	0.63	0.15	0.78	1.2	3000 x 1600	4500 x 2400	73/67
6 mm Pilkington Activ™ Neutral	0.42	0.28	0.30	0.24	0.46	0.39	0.35	0.10	0.45	1.2	3000 x 1600	4500 x 2400	42/39
6 mm Pilkington Activ™ Blue	0.43	0.15	0.24	0.14	0.62	0.31	0.28	0.08	0.36	1.2	3000 x 1600	4500 x 2400	43/31
10 mm Pilkington Activ™ Blue	0.30	0.14	0.16	0.12	0.72	0.22	0.18	0.07	0.25	1.2	3000 x 1600	4500 x 2400	30/22

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Table 6 – Performance Data Pilkington Activ Suncool™ with 6 mm Pilkington Optifloat™ Inner Pane.

Product Description	Light		Solar Radiant Heat				Shading Coefficient			U-value (W/m²K)	Unit Maximum Sizes†		Descriptive Code
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)	Short Wavelength	Long Wavelength	Total		Argon (90%)	Annealed (mm)	
Pilkington Activ Suncool™													
6 mm 70/40	0.66	0.15	0.35	0.32	0.33	0.40	0.41	0.05	0.46	1.1	3000 x 1600	4500 x 2400	66/40
6 mm 70/35	0.65	0.21	0.32	0.44	0.24	0.35	0.37	0.03	0.40	1.0	3000 x 1600	4500 x 2400	65/35
6 mm 66/33	0.61	0.21	0.30	0.40	0.30	0.33	0.35	0.03	0.38	1.0	3000 x 1600	4500 x 2400	61/33
6 mm Silver 50/30	0.47	0.42	0.27	0.52	0.21	0.31	0.31	0.05	0.36	1.0	3000 x 1600	4500 x 2400	47/31
6 mm Blue 50/27	0.47	0.24	0.23	0.39	0.38	0.27	0.27	0.04	0.31	1.1	3000 x 1600	4500 x 2400	47/27
6 mm 50/25	0.47	0.23	0.23	0.42	0.35	0.26	0.26	0.04	0.30	1.0	3000 x 1600	4500 x 2400	47/26
6 mm 40/22	0.37	0.25	0.18	0.40	0.42	0.21	0.21	0.03	0.24	1.1	3000 x 1600	4500 x 2400	37/21
6 mm 30/17	0.28	0.30	0.14	0.40	0.46	0.18	0.17	0.04	0.21	1.1	3000 x 1600	4500 x 2400	28/18

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

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General Information

Safety

Insulating Glass Units with Pilkington T glass, Pilkington Pyroshield™ 2 Safety and Pilkington Optilam™ can meet the recommendations for the glazing of hazardous areas as given in BS 6262: Part 4: 2005, and comply with Building Regulations (England & Wales) Approved Document N.

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 a glazed 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.

Handling and storage

It is important that glass is handled and stored correctly, in accordance with recommendations. It should be kept dry and out of direct sunlight, supported to prevent it from sagging and protected against impact damage. Before glazing, each sheet should be checked and any damaged glass not glazed. It must also be protected against damage caused by water being drawn up between the plates by capillary action and from any abrasive site contaminants such as weld spatter, concrete, plaster and adhesives.

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.



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