


Table 1 – Pilkington Insulight™ Sun – Double Glazing Units

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

Solar control with thermal insulation (low-e)

Product Description	Light		Solar Radiant Heat				Shading Coefficient		U value (W/m²K)	Performance inc. acoustic Light Transmittance / g-value (R _v)		
	Transmittance (LT) %	Reflectance	Direct transmittance	Reflectance	Absorptance	g-value (Total transmittance)	Short wavelength	Total		Argon (90%)	Pane thickness combinations	
Outer Pane											6 mm + 6 mm panes	8 mm + 6 mm panes
Products available as Pilkington Suncool™ , Pilkington Suncool Optimam™ and Pilkington Suncool™ Pro T (toughenable) versions, unless otherwise indicated												
Pilkington Suncool™ - superior solar control with thermal insulation (low-e)												
6 mm 70/40	70	0.10	0.38	0.28	0.34	0.42	0.44	0.48	1.1	70/42 (31 dB)	69/41 (36 dB)	68/40 (40 dB)
6 mm 70/35	69	0.16	0.34	0.35	0.31	0.37	0.39	0.43	1.0	69/37 (31 dB)	68/37 (36 dB)	67/36 (40 dB)
6 mm 66/33	65	0.16	0.32	0.35	0.33	0.36	0.37	0.41	1.0	65/36 (31 dB)	64/35 (36 dB)	64/34 (40 dB)
6 mm 60/31	59	0.11	0.28	0.32	0.40	0.32	0.33	0.37	1.0	59/32 (31 dB)	58/31 (36 dB)	57/31 (40 dB)
6 mm Silver 50/30**	49	0.39	0.28	0.43	0.29	0.31	0.32	0.36	1.0	49/31 (31 dB)	49/31 (36 dB)	48/30 (40 dB)
6 mm Blue 50/27	49	0.19	0.25	0.35	0.40	0.28	0.28	0.32	1.1	49/28 (31 dB)	49/28 (36 dB)	48/27 (40 dB)
6 mm 50/25	49	0.18	0.24	0.33	0.43	0.27	0.27	0.31	1.0	49/27 (31 dB)	49/27 (36 dB)	48/26 (40 dB)
6 mm 40/22***	39	0.20	0.19	0.35	0.46	0.23	0.22	0.26	1.1	39/23 (31 dB)	39/22 (36 dB)	38/22 (40 dB)
6 mm 30/17**	30	0.25	0.15	0.37	0.48	0.18	0.18	0.21	1.1	30/18 (31 dB)	29/18 (36 dB)	29/18 (40 dB)
6 mm 30/16***	29	0.27	0.15	0.37	0.48	0.18	0.17	0.21	1.1	29/18 (31 dB)	29/18 (36 dB)	28/18 (40 dB)
Pilkington Suncool™ OW* (low iron) - superior solar control with thermal insulation (low-e)												
6 mm 70/40	73	0.10	0.44	0.39	0.17	0.45	0.50	0.52	1.1	73/45 (31 dB)	73/45 (36 dB)	73/45 (40 dB)
6 mm 70/35	73	0.16	0.38	0.47	0.15	0.39	0.43	0.45	1.0	73/39 (31 dB)	73/39 (36 dB)	72/39 (40 dB)
6 mm 66/33	69	0.17	0.36	0.47	0.17	0.37	0.42	0.43	1.0	69/37 (31 dB)	69/37 (36 dB)	68/37 (40 dB)
6 mm 60/31	61	0.11	0.30	0.32	0.38	0.32	0.35	0.37	1.0	61/32 (31 dB)	60/31 (36 dB)	59/31 (40 dB)
6 mm Blue 50/27	52	0.20	0.28	0.46	0.26	0.29	0.32	0.33	1.1	52/29 (31 dB)	52/29 (36 dB)	52/29 (40 dB)
6 mm 50/25	52	0.19	0.27	0.44	0.29	0.28	0.31	0.32	1.0	52/28 (31 dB)	52/28 (36 dB)	52/28 (40 dB)
6 mm 40/22***	41	0.21	0.22	0.46	0.32	0.24	0.25	0.28	1.1	41/24 (31 dB)	41/24 (36 dB)	41/23 (40 dB)
6 mm 30/17**	32	0.27	0.17	0.50	0.33	0.19	0.20	0.22	1.1	32/19 (31 dB)	31/19 (36 dB)	31/19 (40 dB)
6mm 30/16***	30	0.28	0.16	0.48	0.36	0.19	0.19	0.22	1.1	30/19 (31 dB)	30/19 (36 dB)	30/19 (40 dB)
Pilkington Activ Suncool™ (self-cleaning) - superior solar control with thermal insulation (low-e)												
6 mm 70/40**	66	0.15	0.35	0.32	0.33	0.39	0.41	0.45	1.1	66/39 (31 dB)	64/39 (36 dB)	64/38 (40 dB)
6 mm 70/35**	65	0.21	0.32	0.44	0.24	0.35	0.37	0.40	1.0	65/35 (31 dB)	64/35 (36 dB)	64/34 (40 dB)
6 mm 66/33**	61	0.21	0.30	0.40	0.30	0.33	0.35	0.38	1.0	61/33 (31 dB)	61/33 (36 dB)	60/32 (40 dB)
6 mm 60/31**	56	0.24	0.27	0.41	0.32	0.30	0.31	0.34	1.0	56/30 (31 dB)	55/30 (36 dB)	54/29 (40 dB)
6 mm Silver 50/30**	47	0.42	0.27	0.52	0.21	0.30	0.31	0.34	1.0	47/30 (31 dB)	47/30 (36 dB)	46/29 (40 dB)
6 mm Blue 50/27**	47	0.24	0.23	0.39	0.38	0.27	0.27	0.31	1.1	47/27 (31 dB)	46/26 (36 dB)	46/26 (40 dB)
6 mm 50/25**	47	0.23	0.23	0.42	0.35	0.26	0.26	0.30	1.0	47/26 (31 dB)	46/25 (36 dB)	46/25 (40 dB)
6 mm 30/17**	28	0.30	0.14	0.40	0.46	0.17	0.17	0.20	1.1	28/17 (31 dB)	28/17 (36 dB)	28/17 (40 dB)
Pilkington Suncool™ One - mid-range solar control with thermal insulation (low-e)												
6 mm 60/40	59	0.22	0.35	0.30	0.35	0.40	0.41	0.46	1.0	59/40 (31 dB)	58/39 (36 dB)	N/A
6 mm 30/21	30	0.31	0.17	0.34	0.49	0.21	0.20	0.24	1.0	30/21 (31 dB)	30/20 (36 dB)	29/20 (40 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

** Annealed version only

*** Toughened version only

Table 2 – Pilkington **Insulight™** Sun Triple – Triple Glazing Units

6 mm Pilkington **Optitherm™** S1 Plus mid pane,
6 mm Pilkington **Optifloat™** Clear inner pane,
with 16 mm argon cavities, unless otherwise indicated.

Solar control with thermal insulation (low-e)

Product Description	Light		Solar Radiant Heat				Shading Coefficient		U value (W/m ² K)	Performance inc. acoustic Light Transmittance / g-value (R _w)		
	Transmittance (LT) %	Reflectance	Direct transmittance	Reflectance	Absorptance	g-value (Total transmittance)	Short wavelength	Total		Argon (90%)	Pane thickness combinations	
Outer Pane										6 mm + 6 mm + 6 mm	8 mm + 6 mm + 6 mm	10 mm + 6 mm + 6 mm
Products available as Pilkington Suncool™ , Pilkington Suncool Optilam™ and Pilkington Suncool™ Pro T (toughenable) versions, unless otherwise indicated												
Pilkington Suncool™ - superior solar control with thermal insulation (low-e)												
6 mm 70/40	59	0.16	0.29	0.31	0.40	0.34	0.33	0.39	0.6	59/34 (31 dB)	57/33 (36 dB)	57/32 (40 dB)
6 mm 70/35	58	0.22	0.26	0.38	0.36	0.31	0.30	0.35	0.5	58/31 (31 dB)	58/30 (36 dB)	57/30 (40 dB)
6 mm 66/33	55	0.22	0.25	0.35	0.40	0.29	0.29	0.34	0.5	55/29 (31 dB)	54/29 (36 dB)	54/28 (40 dB)
6 mm 60/31	50	0.15	0.23	0.35	0.43	0.27	0.26	0.30	0.5	50/27 (31 dB)	49/26 (36 dB)	49/26 (40 dB)
6 mm Silver 50/30**	43	0.42	0.21	0.45	0.34	0.26	0.25	0.30	0.5	43/26 (31 dB)	42/25 (36 dB)	42/25 (40 dB)
6 mm Blue 50/27	42	0.22	0.19	0.36	0.45	0.23	0.22	0.26	0.5	42/23 (31 dB)	42/23 (36 dB)	41/22 (40 dB)
6 mm 50/25	41	0.22	0.18	0.33	0.49	0.22	0.21	0.25	0.5	41/22 (31 dB)	41/22 (36 dB)	40/21 (40 dB)
6 mm 40/22***	33	0.22	0.15	0.35	0.50	0.18	0.18	0.21	0.5	33/18 (31 dB)	33/18 (36 dB)	33/18 (40 dB)
6mm 30/17**	25	0.25	0.12	0.38	0.50	0.15	0.14	0.17	0.5	25/15 (31 dB)	25/14 (36 dB)	25/14 (40 dB)
6 mm 30/16***	24	0.28	0.12	0.38	0.51	0.14	0.13	0.16	0.5	24/14 (31 dB)	24/14 (36 dB)	24/14 (40 dB)
Pilkington Suncool™ OW* (low iron) - superior solar control with thermal insulation (low-e)												
6 mm 70/40	60	0.16	0.30	0.43	0.27	0.36	0.35	0.41	0.6	60/36 (31 dB)	59/36 (36 dB)	59/35 (40 dB)
6 mm 70/35	60	0.22	0.28	0.51	0.22	0.32	0.32	0.37	0.5	60/32 (31 dB)	59/32 (36 dB)	59/32 (40 dB)
6 mm 66/33	56	0.22	0.27	0.47	0.26	0.31	0.31	0.35	0.5	56/31 (31 dB)	56/31 (36 dB)	56/31 (40 dB)
6 mm 60/31	50	0.16	0.23	0.42	0.35	0.27	0.27	0.31	0.5	50/27 (31 dB)	50/27 (36 dB)	50/27 (40 dB)
6 mm Silver 50/30	44	0.44	0.23	0.57	0.20	0.28	0.26	0.32	0.5	44/28 (31 dB)	44/28 (36 dB)	44/27 (40 dB)
6 mm Blue 50/27	43	0.23	0.20	0.48	0.32	0.24	0.23	0.27	0.5	43/24 (31 dB)	43/24 (36 dB)	43/24 (40 dB)
6 mm 50/25	42	0.23	0.19	0.44	0.37	0.23	0.22	0.26	0.5	42/23 (31 dB)	42/23 (36 dB)	42/23 (40 dB)
6 mm 40/22***	34	0.23	0.16	0.47	0.37	0.19	0.18	0.22	0.5	34/19 (31 dB)	34/19 (36 dB)	34/19 (40 dB)
6 mm 30/17**	26	0.28	0.12	0.51	0.37	0.15	0.14	0.17	0.5	26/14 (31 dB)	26/15 (36 dB)	26/15 (40 dB)
6 mm 30/16***	25	0.29	0.12	0.49	0.39	0.15	0.14	0.17	0.5	25/15 (31 dB)	25/15 (36 dB)	25/15 (40 dB)

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

Pilkington **Optitherm™** S1 Plus coating on surface 4 (counting from the outside)

* 6 mm Pilkington **Optitherm™** S1 Plus mid-pane with 6 mm Pilkington **Optiwhite™** inner pane

** Annealed version only

*** Toughened version only

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, 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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