



# GLASS PERFORMANCE

Windell specify Pilkington PLANAR™ range for application in roof glazing systems

Table 1: Performance Data for Planar™ with 6mm Optifloat™ Clear THS inner pane and 16mm airspace

Pilkington Toughened and Heat Soaked Glass Outer Pane	Colour / Performance	Thickness (mm)	Light Transmittance LT	Light Reflectance LR	Total Solar Radiant Heat Transmittance	Total Shading Coefficient	U Value (W/m²K)	R <sub>w</sub> Value (dB)
Pilkington <b>Optifloat™</b>	Clear	10	0.77	0.14	0.67	0.77	2.7	38
Pilkington <b>Optifloat™</b>	Clear	12	0.76	0.14	0.64	0.74	2.7	38
Pilkington <b>Optifloat™</b>	Clear	15	0.74	0.13	0.60	0.69	2.6	40
*Pilkington <b>Planar™</b> Sun	73/42	10	0.69	0.10	0.40	0.46	1.4	38
*Pilkington <b>Planar™</b> Sun	70/39	10	0.67	0.12	0.37	0.43	1.3	38
*Pilkington <b>Planar™</b> Sun	69/37	10	0.66	0.11	0.35	0.40	1.3	38
*Pilkington <b>Planar™</b> Sun	62/29	10	0.58	0.09	0.29	0.33	1.3	38
*Pilkington <b>Planar™</b> Sun	50/27	10	0.48	0.10	0.26	0.30	1.3	38
*Pilkington <b>Planar™</b> Sun	30/17	10	0.29	0.24	0.19	0.22	1.3	38

Table 2: Performance Data for Planar™ with 6mm Optitherm™ S3 Pro T [Toughened], inner pane and 16mm airspace

Pilkington Toughened and Heat Soaked Glass Outer Pane	Colour / Performance	Thickness (mm)	Light Transmittance LT	Light Reflectance LR	Total Solar Radiant Heat Transmittance	Total Shading Coefficient	U Value (W/m²K)	R <sub>w</sub> Value (dB)
Pilkington <b>Optifloat™</b>	Clear	10	0.76	0.12	0.55	0.63	1.4	38
Pilkington <b>Optifloat™</b>	Clear	12	0.75	0.12	0.53	0.61	1.4	38
Pilkington <b>Optifloat™</b>	Clear	15	0.73	0.12	0.50	0.57	1.3	40
Pilkington <b>Optiwhite™</b>	Extra Clear	10	0.80	0.13	0.64	0.74	1.4	38
Pilkington <b>Optiwhite™</b>	Extra Clear	12	0.79	0.13	0.63	0.72	1.4	38
Pilkington <b>Optiwhite™</b>	Extra Clear	15	0.79	0.13	0.63	0.72	1.3	40

Table 3: Performance Data for Planar™ with 6mm Optiwhite™ THS inner pane and 16mm airspace

Pilkington Toughened and Heat Soaked Glass Outer Pane	Colour / Performance	Thickness (mm)	Light Transmittance LT	Light Reflectance LR	Total Solar Radiant Heat Transmittance	Total Shading Coefficient	U Value (W/m²K)	R <sub>w</sub> Value (dB)
Pilkington <b>Optiwhite™</b>	Extra Clear	10	0.83	0.15	0.81	0.93	2.7	38
Pilkington <b>Optiwhite™</b>	Extra Clear	12	0.82	0.15	0.80	0.92	2.7	38
Pilkington <b>Optiwhite™</b>	Extra Clear	15	0.82	0.15	0.79	0.91	2.6	40
Pilkington <b>Planar™</b> Sun OW	73/42	10	0.74	0.11	0.43	0.49	1.4	38
Pilkington <b>Planar™</b> Sun OW	69/37	10	0.70	0.12	0.38	0.44	1.3	38
Pilkington <b>Planar™</b> Sun OW	62/29	10	0.63	0.10	0.30	0.34	1.3	38
Pilkington <b>Planar™</b> Sun OW	50/27	10	0.51	0.10	0.28	0.32	1.3	38

Tested by: **Pilkington**