

Pilkington Planar™ System Information

Pilkington Planar™ Triple



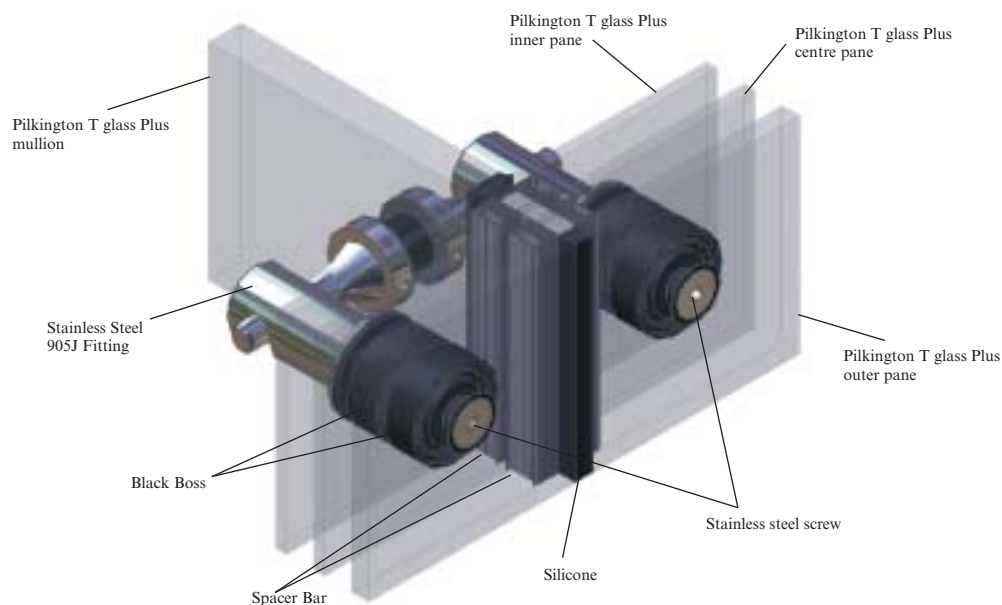
Glass Type	Outer Pane 10mm	Centre Pane 6mm	Inner Pane 6mm	Light Transmittance LT	Light Reflectance LR	Total Solar Radiant Heat Transmittance	Total Shading Coefficient	U Value (W/m²K)
Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	0.70	0.19	0.59	0.68	1.8
Optifloat™ Green	Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	0.53	0.13	0.32	0.37	1.8
Optiwhite™	Optiwhite™	Optiwhite™	Optiwhite™	0.77	0.20	0.74	0.85	1.8
Arctic Blue™	Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	0.33	0.08	0.25	0.29	1.8
Suncool™ HP Brilliant (2)	Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	0.59	0.18	0.32	0.37	1.0
Suncool™ HP Clear (2)	Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	0.58	0.24	0.37	0.42	1.1
Optifloat™ Clear	Optifloat™ Clear	Optifloat™ Clear	K Glass™ (5)	0.65	0.21	0.55	0.63	1.3
Optifloat™ Green	Optifloat™ Clear	Optifloat™ Clear	K Glass™ (5)	0.49	0.14	0.30	0.34	1.3
Optiwhite™	Optiwhite™	Optiwhite™	K Glass™ (5)	0.70	0.22	0.70	0.80	1.3
Arctic Blue™	Optifloat™ Clear	Optifloat™ Clear	K Glass™ (5)	0.30	0.08	0.22	0.26	1.3
Suncool™ HP Brilliant (2)	Optifloat™ Clear	Optifloat™ Clear	K Glass™ (5)	0.54	0.19	0.31	0.35	0.8
Suncool™ HP Clear (2)	Optifloat™ Clear	Optifloat™ Clear	K Glass™ (5)	0.54	0.25	0.37	0.43	0.9

Figures in brackets indicate coated surfaces. Cavity for outer and centre pane = 16mm. Determined in accordance with EN410 and EN673.

Pilkington Planar™ Triple Units – Glass Types

Glass Type	Colour	4mm	6mm	10mm	12mm	15mm	19mm	Notes
Pilkington Optifloat™	Clear	✓	✓	✓	✓	✓	✓	
Pilkington Optifloat™	Grey	✓	✓	✓				
	Bronze	✓	✓	✓				
	Green	✓	✓	✓				
Pilkington Optiwhite™		✓	✓	✓	✓	✓		
Pilkington Arctic Blue™	Blue		✓	✓				
Pilkington K Glass™		✓	✓					
Pilkington Optitherm™ SN		✓	✓					Subject to minimum quantity. Max. size 2400 x 4200mm
Pilkington Suncool™ HP			✓	✓				Subject to minimum quantity. Max. size 2400 x 4200mm
Pilkington Decorative Glass Screen Printed		✓	✓	✓	✓	✓	✓	Maximum screened area 2400 x 4500mm (See enclosed data sheet for further details)

View of Pilkington Planar™ Triple unit with glass mullion support



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Specification – Pilkington **Planar**TM Triple Units

Composition

Pilkington **Planar**TM Triple Units are manufactured from three panes of fully toughened and heat soaked glass (Pilkington T glass Plus) and reference should be made to the Single Pilkington **Planar**TM specifications.

Outer Pane

Outer pane to conform to single Pilkington **Planar**TM specifications.

Centre/Inner Panes

Thickness:	4&6mm	±0.2mm
	8,10&12mm	±0.3mm

Pilkington **Planar**TM Triple Units

Airspaces:	16mm	±1mm
Depth of silicone seal:	Minimum 5mm	
Aluminium spacer depth:	7mm	
Spacer colour:	Black or Natural	

Glass size – rectangles

Maximum:	2400 x 4800mm	-0 + 4.5mm
Minimum:	360 x 900mm	-0 + 4.5mm
Aspect ratio:	10:1 Maximum	
Diagonal tolerances:		
	Up to 4m:	3mm Maximum difference
	Over 4m:	4mm Maximum difference
	Overall thickness	80mm Maximum

Shape capability

Rectangles and simple shapes. All tolerances will vary depending on the complexity of shape.

Roller wave – all glasses in same direction

Mean roller wave depth:	0.02mm
Maximum edge dip:	0.25mm

Roller wave is usually parallel to the short side and in coated glasses should be glazed horizontally where possible.

Edge condition

Smooth ground edges giving a flat profile with small ground arris. Shells or chips at edges will be ground out prior to toughening and do not constitute reason for rejection. Corners may be dubbed. Some variation in edgework may be discernible on exposed edges where different machines and/or hand forming is a requirement for manufacture. Such variations shall be kept to a minimum.

Where the detail of a structure is such that the glazing edge sealant is fully exposed, minor undulations in the edge seal may be discernible particularly near corners of the unit.

Hole drilling – rectangles

Diameter:	34mm ±1mm
Diameter:	19mm ±1mm Countersunk
Position:	Normally 60mm from glass edge at corners and sometimes along edge. Other configurations subject to confirmation.
Tolerance:	±2mm from one datum point.
Number:	Up to 10

Toughening stress

Thermally toughened soda lime silicate safety glass to BSEN 12150-1. Classified as 1 (C) 1 to BSEN 12600. Checked regularly during production by fracture count or the Differential Stress Refractometer (DSR) method.

Heat Soak Testing

All toughened glass will be supplied heat soaked to international specifications eg prEN 14179-1, DIN 18516.

Glass marking

Glass will be marked with the Pilkington toughening stamp and will show compliance with regulatory requirements. The mark will be on each glass pane. Multiple panes will not necessarily be marked in the same corner.

Visual quality

Distortion

Pilkington **Planar**TM Triple Units are manufactured from three panes of toughened glass which has minimal effect on visual transmission through the glass but some distortion can be seen in reflection. The air in all sealed units expands and contracts in hot and cold weather causing the glass to bow out and in respectively and again reflections will reflect this movement. Site inspection should be from a distance of 3m and at right angles to the glass.

Installation

Whilst the Pilkington **Planar**TM system is completely weatherproof, the components are not designed to be left in contact with water for extended periods, and adequate ventilation or drainage should be provided to allow the system to dry out periodically.

Weatherseals used around the periphery must be compatible with the Pilkington **Planar**TM system and approval from Pilkington should be sought prior to application.

This publication gives a general description of the product and materials. It is the responsibility of the users of this document to ensure that the proposed application of the product is appropriate and that such application complies with all relevant local and national legislation, standards, codes of practice and other requirements. To the extent allowed by law Pilkington United Kingdom Limited hereby disclaims all liability howsoever arising from any error in or omission from this publication and all consequences of relying on it.



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