



Pilkington Anti-condensation Glass

The global move to more demanding environmental and legislative requirements has increased the popularity of glass which provides high level thermal insulation whilst at the same time reducing the amount of heat lost through the window.

A result of this highly efficient thermal insulation is that it is possible for condensation (dew) to occur on the outer pane of the glass, particularly in the spring and autumn months. New Pilkington Anti-condensation Glass is designed to delay the onset of condensation on glazing and hence improve the view through the window.

Pilkington Anti-condensation Glass - technical performance

Inner/Middle pane	Light (%)		Solar Radiant Heat (%)				Total shading coefficient	U _g -value [W/m ² K]
	Transmittance	Reflectance	Direct Transmittance	Reflectance	Absorptance	Total Transmittance (g value)		Argon (90%)
Pilkington Insulight ™ Therm AC (4 mm Pilkington Anti-condensation Glass outer pane – 16 mm argon – 4 mm inner pane)								
Pilkington K Glass ™ N	71	22	60	19	21	69	0,79	1,5
Pilkington K Glass ™ S	74	17	57	20	23	66	0,76	1,2
Pilkington Optitherm ™ S3	76	17	53	25	22	61	0,70	1,1
Pilkington Optitherm ™ S1	66	26	41	38	21	47	0,54	1,0
Pilkington Insulight ™ Therm Triple AC (4 mm Pilkington Anti-condensation Glass outer pane – 16 mm argon – 4 mm middle pane – 16 mm argon – 4 mm inner pane)								
Pilkington K Glass ™ N	61	29	48	23	29	60	0,69	0,8
Pilkington K Glass ™ S	66	20	45	23	32	57	0,67	0,6
Pilkington Optitherm ™ S3	69	19	42	29	29	52	0,60	0,6
Pilkington Optitherm ™ S1	52	33	28	44	27	36	0,41	0,5

Performance data determined in accordance with EN 410 and EN 673.

Low-e coatings on surface 3 in double glazed units and on surface 3 & 5 in triple glazed units (counting from the outside).

External condensation is a natural phenomenon which occurs when the external surface temperature of the glass drops below the dew point*. The occurrence of external condensation on windows is proof that the Insulating Glass Unit is thermally efficient and working effectively.

The low-e coating on Pilkington Anti-condensation Glass works by keeping the temperature of the external surface warmer. It is designed to delay and, in many cases, prevent the onset of external condensation on Insulating Glass Units (IGUs) and reduces the number of days of the year on which external condensation appears.**

Pilkington Anti-condensation Glass is an on-line coated, low-e product manufactured on a Pilkington **Optifloat**™ Clear substrate available in 4 mm and 6 mm. It is robust, easy to clean, handle and process. It can be laminated, toughened, bent and incorporated into IGUs. Pilkington Anti-condensation Glass may be used in a wide variety of commercial and domestic applications in combination with other thermally efficient glass products such as those from the Pilkington **K Glass**™ and Pilkington **Optitherm**™ ranges.

* Dew Point – is the tipping point at which the air cannot hold any more moisture. Below this temperature water droplets start to form on surfaces; for example on car windscreens or external glass windows in the morning after a clear night.

** Under the same conditions (e.g. the same U_g-value, temperature, humidity, wind speed, direction of window, etc.), Pilkington Anti-condensation Glass will delay and, in many cases, prevent the onset of condensation as compared to the same glass without an anti-condensation coating.

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The CE marking label for each product, including declared values, can be found at www.pilkington.com/CE



Pilkington Group Limited

European Technical Centre

Hall Lane – Lathom Nr Ormskirk L40 5UF – United Kingdom

marketing.communications@nsg.com

www.pilkington.com

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