

Statement of Thermal Performance for Windows & Doors

Date of Issue

Name, Address, and Email contact of Manufacturer / Supplier

Project / Site Details - including Address

Consent No.

Climate Zone

I / We declare that the following,

1) Glazed windows & doors, or

2) Opaque doors, or

3) Skylights.

supplied by us to this Project / Site, achieve a **Construction R-value** as stated below,

Construction R-value = R m².K/W

(Note – The Construction R-value shall be no less than the value specified within the Consent listed above.)

This R-value has been determined using one of the following methods,

i) Selected from Table E.1.1.1, or ii)

Derived using a WEERS calculator, or

iii) Calculated in accordance with H1/ . (Confirm H1/AS2, VM1, or VM2)

(Supporting documentation for methods will be supplied on request.)

Copy of Table E.1.1.1 from H1/AS1, Fifth Edition, Amendment 1...

TABLE E.1.1.1: Construction R-values (R_{Window}) of selected generic vertical windows and doors

Paragraph E.1.1.1 a)

Type of glazing	U_g ⁽¹⁾	Spacer type ⁽²⁾	Example IGU ^{(3), (4)} (Informative)	R_{Window} ($\text{m}^2\text{-K/W}$) for different frames			
				Aluminium frame	Thermally broken aluminium frame	uPVC frame	Timber frame
Double pane	2.63	Aluminium	Glass: Clear/Clear Gas: Air	R0.26	R0.32	R0.40	R0.44
	1.90	Aluminium	Glass: Low E_g /Clear Gas: Argon	R0.30	R0.39	R0.50	R0.56
	1.60	Thermally improved	Glass: Low E_g /Clear Gas: Argon	R0.33	R0.42	R0.56	R0.63
	1.30	Thermally improved	Glass: Low E_g /Clear Gas: Argon	R0.35	R0.46	R0.63	R0.71
	1.10	Thermally improved	Glass: Low E_g /Clear Gas: Argon	R0.37	R0.50	R0.69	R0.77
	0.90	Thermally improved	Glass: Low E_g /Clear Gas: Krypton	R0.40	R0.54	R0.76	R0.85
Triple pane	1.89	Thermally improved	Glass: Clear/Clear/Clear Gas: Air		R0.38	R0.50	R0.56
	1.20	Thermally improved	Glass: Low E_g /Clear/Clear Gas: Argon		R0.48	R0.66	R0.74
	1.00	Thermally improved	Glass: Low E_g /Clear/Clear Gas: Argon		R0.52	R0.73	R0.81
	0.70	Thermally improved	Glass: Low E_g /Low E_g /Clear Gas: Argon		R0.59	R0.86	R0.95
	0.60	Thermally improved	Glass: Low E_g /Low E_g /Clear Gas: Argon		R0.62	R0.91	R1.01

Notes:

- (1) Thermal transmittance of the glazing determined using BS EN 673. Where the U_g -value of the proposed glazing is different from the values included in the table, R_{Window} shall be determined based on the nearest U_g -value in the table that is greater than the U_g -value of the proposed glazing.
- (2) 'Thermally improved' refers to a spacer that meets the definition of thermally improved spacer in ISO 10077-1 Annex G.
- (3) The examples provided are informative descriptions only of the *insulated glazing unit (IGU)* types that might be used to deliver the nominated U_g -values. When using this table, R_{Window} shall be determined based on U_g , spacer type and frame type.
- (4) The properties of each of the glass panes within the *IGU* are provided and separated by '/'. 'Clear' refers to clear float glass. 'Low E_g ', 'Low E_2 ', 'Low E_3 ' and 'Low E_4 ' refer to glass with low emissivity coatings at different performance levels.

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