



Statement of Thermal Performance for Windows & Doors

Date of Issue 26/11/24

Name, Address, and Email contact of Manufacturer / Supplier

Design Windows Dunedin Ltd

11 Odins Place

Mosgiel

Project / Site Details - including Address

A1 Homes a.c Burgess & Allen

7 Whitehaven Street, Oamaru

Consent No. 24009002

Climate Zone 5

- I / We declare that the following,
- ☒ 1) Glazed windows & doors, **and/or**
 - ☒ 2) Opaque doors, **and/or**
 - ☐ 3) Skylights.

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

Construction R-value = **R** 0.5 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) The Schedule Method and/or 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.)

Name Mark Baker

Signature

Window & Glass Association Membership No. 1302

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 <i>insulated glazing unit (IGU)</i> 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 <i>IGU</i> are provided and separated by '/'. 'Clear' refers to clear float glass. 'Low E_g ', 'Low E_g ', 'Low E_g ' and 'Low E_g ' refer to glass with low emissivity coatings at different performance levels.							

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