

Shanghai Superhouse Building Material Co.,Ltd. Aluminium Window and Door Energy Rating Information

All simulation of the following products have been performed using National Fenestration Rating Council (NFRC) NFRC 100-2010 procedures and NFRC Simulation Manual July 2013 in LBNL Windows7.3 and LBNL Therm7.3.

The performance values displayed on the following pages are for use in the calculation of **Whole of Window (WoW)** energy requirements with reference to G.James window rating datas in accordance with Australian National Construction Code, Volume 1 (section J) & Volume 2 Part 3.12. These values are not to be used for the purpose of glass only energy requirements.

The Energy Rating provides U-value, Solar Heat Gain Coefficient(SHGC), Visible Transmittance(Tvis) and Australian Window Energy Rating.

U-value is the rate of heat transfer of the window or door. U-Factor values generally range from 1.4 to 7.0 in $W/m^2 \cdot K$. The Lower the U-factor, the better the window or door insulates.

Solar Heat Gain Coefficient(SHGC) is the fraction of solar energy transmitted and indicates how much solar heat window or door (glass and frame) gained and released inward. SHGC is measured on a scale of 0 to 1, values typically range from 0.25 to 0.80. The lower the SHGC,the less solar heat the window transmits.

Tvis is the fraction of how much light coming through the window or door (glass and frame). Tvis is measured on a scale of 0 to 1, the higher the value is, the more light coming through the window or door.

NOTES

1. U-value is the whole window U-value
2. SHGC is the whole window solar heat gain coefficient
3. Tvis is the whole window visible (light) transmittance
4. All the glass are tempered glass, 5 / 12 / 5 means double 5mm clear tempered glass with 12mm air gap, Ar is argon gap
5. EA is for Energy Advantage Low-E coating, DS for Double Silver Low-E coating
6. #2 is the 2nd surface of glass from window outside
7. Cooling and Heating Star of Australian Window Energy Rating are concluded with reference to WERS Certified Products Directory and relevant ratings of A&L, Capral, G.James and Trend Windows, for reference only.

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Glazing	U-value	SHGC	Tvis	Australian Window Energy Rating	
				Cooling Star	Heating Star
<i>W/m²·K</i>					
45 Series Fixed Window					
Single Glazed					
5	5.81	0.72	0.75	★	★★★
6	5.79	0.71	0.75	★	★★★
6 Bronze	5.79	0.52	0.42	★★	★★★
6 Marine Blue	5.79	0.54	0.55	★★	★★★
6 F Green	5.79	0.50	0.63	★★	★★★
6 Blue Green	5.79	0.54	0.63	★★	★★★
6 EuroGrey	5.79	0.50	0.37	★★	★★★
8.76 (4 + 0.76 pvb + 4)	5.63	0.65	0.73	★	★★★
10.76 (5 + 0.76 pvb + 5)	5.59	0.65	0.74	★	★★★
10.76 (5 Bronze + 0.76 pvb + 5)	5.59	0.32	0.16	★★★	★★
10.76 (5 Marine Blue + 0.76 pvb + 5)	5.59	0.33	0.18	★★★	★★
10.76 (5 F Green + 0.76 pvb + 5)	5.59	0.34	0.22	★★★	★★
10.76 (5 Blue Green + 0.76 pvb + 5)	5.59	0.33	0.18	★★★	★★
10.76 (5 EuroGrey + 0.76 pvb + 5)	5.59	0.30	0.21	★★★★	★★
Double Glazed					
5 / 12 / 5	3.33	0.64	0.68	★★★	★★★★★
5 lowE, #2 / 12 / 5 (EA)	2.68	0.54	0.63	★★★★	★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.49	0.54	0.63	★★★★	★★★★★
6 / 12 / 6	3.32	0.62	0.67	★★★	★★★★★
6 lowE, #2 / 12 / 6 (EA)	2.67	0.53	0.62	★★★★	★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.49	0.53	0.62	★★★★	★★★★★
6 Bronze / 12 / 6	3.32	0.42	0.38	★★★★	★★★★★
6 Marine Blue / 12 / 6	3.32	0.45	0.49	★★★★	★★★★★
6 F Green / 12 / 6	3.32	0.40	0.26	★★★★	★★★★★
6 Blue Green / 12 / 6	3.32	0.45	0.57	★★★★	★★★★★
6 EuroGrey / 12 / 6	3.32	0.40	0.33	★★★★	★★★★★
6 Bronze / 12 / 6 lowE (EA)	2.67	0.37	0.35	★★★★★	★★★★★
6 Marine Blue / 12 / 6 lowE (EA)	2.67	0.40	0.45	★★★★★	★★★★★
6 F Green / 12 / 6 lowE (EA)	2.67	0.36	0.52	★★★★★	★★★★★
6 Blue Green / 12 / 6 lowE (EA)	2.67	0.40	0.52	★★★★★	★★★★★
6 EuroGrey / 12 / 6 lowE (EA)	2.67	0.35	0.31	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.22	0.26	0.31	★★★★★	★★★★★

6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.47	0.21	0.29	★★★★★↓	★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.37	0.18	0.26	★★★★★★	★★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.16	0.19	0.26	★★★★★★★	★★★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.25	0.27	0.32	★★★★★↓	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.48	0.22	0.29	★★★★★★↓	★★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.38	0.18	0.26	★★★★★★	★★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.17	0.19	0.26	★★★★★★★	★★★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.22	0.26	0.31	★★★★★↓	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.46	0.20	0.29	★★★★★★↓	★★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.36	0.18	0.26	★★★★★★	★★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.16	0.18	0.26	★★★★★★★	★★★★★★★↓

45 Series Awning Window

Single Glazed					
5	6.39	0.63	0.61	★	★★★★
6	6.37	0.62	0.61	★	★★★★
6 Bronze	6.37	0.45	0.34	★★↓	★★★
6 Marine Blue	6.37	0.47	0.44	★★↓	★★★
6 F Green	6.37	0.43	0.51	★★↓	★★★
6 Blue Green	6.37	0.47	0.51	★★↓	★★★
6 EuroGrey	6.37	0.43	0.30	★★↓	★★★
8.76 (4 + 0.76 pvb + 4)	6.20	0.57	0.59	★↓	★★★★
10.76 (5 + 0.76 pvb + 5)	6.15	0.56	0.60	★↓	★★★★
10.76 (5 Bronze + 0.76 pvb + 5)	6.15	0.28	0.13	★★★	★★★
10.76 (5 Marine Blue + 0.76 pvb + 5)	6.15	0.29	0.14	★★★	★★★
10.76 (5 F Green + 0.76 pvb + 5)	6.15	0.29	0.18	★★★	★★★
10.76 (5 Blue Green + 0.76 pvb + 5)	6.15	0.29	0.14	★★★	★★★
10.76 (5 EuroGrey + 0.76 pvb + 5)	6.15	0.26	0.17	★★★↓	★★★↓

Double Glazed					
5 / 12 / 5	3.66	0.55	0.55	★★↓	★★★★★★
5 lowE, #2 / 12 / 5 (EA)	2.95	0.47	0.51	★★★★↓	★★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.74	0.47	0.51	★★★★↓	★★★★★★★↓
6 / 12 / 6	3.65	0.54	0.54	★★↓	★★★★★★
6 lowE, #2 / 12 / 6 (EA)	2.94	0.46	0.50	★★★★↓	★★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.74	0.46	0.50	★★★★↓	★★★★★★★↓
6 Bronze / 12 / 6	3.65	0.36	0.30	★★★★↓	★★★★★★
6 Marine Blue / 12 / 6	3.65	0.39	0.40	★★★★↓	★★★★★★
6 F Green / 12 / 6	3.65	0.35	0.21	★★★★↓	★★★★★★
6 Blue Green / 12 / 6	3.65	0.39	0.46	★★★★↓	★★★★★★
6 EuroGrey / 12 / 6	3.65	0.35	0.27	★★★★↓	★★★★★★
6 Bronze / 12 / 6 lowE (EA)	2.94	0.32	0.28	★★★★★↓	★★★★★★★↓
6 Marine Blue / 12 / 6 lowE (EA)	2.94	0.35	0.37	★★★★★↓	★★★★★★★↓
6 F Green / 12 / 6 lowE (EA)	2.94	0.31	0.42	★★★★★↓	★★★★★★★↓
6 Blue Green / 12 / 6 lowE (EA)	2.94	0.35	0.42	★★★★★↓	★★★★★★★↓
6 EuroGrey / 12 / 6 lowE (EA)	2.94	0.30	0.25	★★★★★★	★★★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.54	0.23	0.25	★★★★★★	★★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.72	0.18	0.24	★★★★★★★	★★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.61	0.16	0.21	★★★★★★★↓	★★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.38	0.16	0.21	★★★★★★★	★★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.58	0.23	0.26	★★★★★★	★★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.73	0.19	0.24	★★★★★★★	★★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.62	0.16	0.21	★★★★★★★↓	★★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.39	0.16	0.21	★★★★★★★	★★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.54	0.23	0.25	★★★★★★	★★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.71	0.18	0.23	★★★★★★★	★★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.60	0.15	0.21	★★★★★★★↓	★★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.37	0.16	0.21	★★★★★★★	★★★★★★

45 Series Casement Window

Single Glazed					
5	6.39	0.63	0.61	★	★★★★
6	6.37	0.62	0.61	★	★★★★
6 Bronze	6.37	0.45	0.34	★★↓	★★★
6 Marine Blue	6.37	0.47	0.44	★★↓	★★★
6 F Green	6.37	0.43	0.51	★★↓	★★★
6 Blue Green	6.37	0.47	0.51	★★↓	★★★
6 EuroGrey	6.37	0.43	0.30	★★↓	★★★
8.76 (4 + 0.76 pvb + 4)	6.20	0.57	0.59	★↓	★★★★
10.76 (5 + 0.76 pvb + 5)	6.15	0.56	0.60	★↓	★★★★

10.76 (5 Bronze + 0.76 pvb + 5)	6.15	0.28	0.13	★ ★ ★	★ ★ ★
10.76 (5 Marine Blue + 0.76 pvb + 5)	6.15	0.29	0.14	★ ★ ★	★ ★ ★
10.76 (5 F Green + 0.76 pvb + 5)	6.15	0.29	0.18	★ ★ ★	★ ★ ★
10.76 (5 Blue Green + 0.76 pvb + 5)	6.15	0.29	0.14	★ ★ ★	★ ★ ★
10.76 (5 EuroGrey + 0.76 pvb + 5)	6.15	0.26	0.17	★ ★ ★ ↓	★ ★ ↓
Double Glazed					
5 / 12 / 5	3.66	0.55	0.55	★ ★ ↓	★ ★ ★ ★ ★ ★
5 lowE, #2 / 12 / 5 (EA)	2.95	0.47	0.51	★ ★ ★ ↓	★ ★ ★ ★ ★ ★
5 lowE, #2 / 12Ar / 5 (EA)	2.74	0.47	0.51	★ ★ ★ ↓	★ ★ ★ ★ ★ ★ ↓
6 / 12 / 6	3.65	0.54	0.54	★ ★ ↓	★ ★ ★ ★ ★ ★
6 lowE, #2 / 12 / 6 (EA)	2.94	0.46	0.50	★ ★ ★ ↓	★ ★ ★ ★ ★ ★
6 lowE, #2 / 12Ar / 6 (EA)	2.74	0.46	0.50	★ ★ ★ ↓	★ ★ ★ ★ ★ ★ ↓
6 Bronze / 12 / 6	3.65	0.36	0.30	★ ★ ★ ↓	★ ★ ★ ★ ★
6 Marine Blue / 12 / 6	3.65	0.39	0.40	★ ★ ★ ↓	★ ★ ★ ★ ★
6 F Green / 12 / 6	3.65	0.35	0.21	★ ★ ★ ↓	★ ★ ★ ★ ★
6 Blue Green / 12 / 6	3.65	0.39	0.46	★ ★ ★ ↓	★ ★ ★ ★ ★
6 EuroGrey / 12 / 6	3.65	0.35	0.27	★ ★ ★ ↓	★ ★ ★ ★ ★
6 Bronze / 12 / 6 lowE (EA)	2.94	0.32	0.28	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 Marine Blue / 12 / 6 lowE (EA)	2.94	0.35	0.37	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 F Green / 12 / 6 lowE (EA)	2.94	0.31	0.42	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 Blue Green / 12 / 6 lowE (EA)	2.94	0.35	0.42	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 EuroGrey / 12 / 6 lowE (EA)	2.94	0.30	0.25	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.54	0.23	0.25	★ ★ ★ ↓	★ ★ ★ ★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.72	0.18	0.24	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.61	0.16	0.21	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.38	0.16	0.21	★ ★ ★ ↓	★ ★ ★ ★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.58	0.23	0.26	★ ★ ★ ↓	★ ★ ★ ★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.73	0.19	0.24	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.62	0.16	0.21	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.39	0.16	0.21	★ ★ ★ ↓	★ ★ ★ ★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.54	0.23	0.25	★ ★ ★ ↓	★ ★ ★ ★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.71	0.18	0.23	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.60	0.15	0.21	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.37	0.16	0.21	★ ★ ★ ↓	★ ★ ★ ★
86 Series Awning Window					
Single Glazed					
5	6.52	0.62	0.59	★	★ ★ ★ ★
6	6.49	0.60	0.59	★	★ ★ ★ ★
6 Bronze	6.49	0.44	0.33	★ ★ ↓	★ ★ ★
6 Marine Blue	6.49	0.46	0.43	★ ★ ↓	★ ★ ★
6 F Green	6.49	0.43	0.49	★ ★ ↓	★ ★ ★
6 Blue Green	6.49	0.46	0.50	★ ★ ↓	★ ★ ★
6 EuroGrey	6.49	0.43	0.29	★ ★ ↓	★ ★ ★
8.76 (4 + 0.76 pvb + 4)	6.32	0.56	0.58	★ ↓	★ ★ ★ ↓
10.76 (5 + 0.76 pvb + 5)	6.27	0.55	0.58	★ ↓	★ ★ ★ ★
10.76 (5 Bronze + 0.76 pvb + 5)	6.27	0.27	0.12	★ ★ ★	★ ★ ★
10.76 (5 Marine Blue + 0.76 pvb + 5)	6.27	0.28	0.14	★ ★ ★	★ ★ ★
10.76 (5 F Green + 0.76 pvb + 5)	6.27	0.29	0.18	★ ★ ★	★ ★ ★
10.76 (5 Blue Green + 0.76 pvb + 5)	6.27	0.28	0.14	★ ★ ★	★ ★ ★
10.76 (5 EuroGrey + 0.76 pvb + 5)	6.27	0.26	0.17	★ ★ ★ ↓	★ ★ ↓
Double Glazed					
5 / 12 / 5	3.55	0.52	0.53	★ ★ ↓	★ ★ ★ ★ ★ ★
5 lowE, #2 / 12 / 5 (EA)	3.00	0.46	0.49	★ ★ ★ ↓	★ ★ ★ ★ ★ ★
5 lowE, #2 / 12Ar / 5 (EA)	2.80	0.46	0.49	★ ★ ★ ↓	★ ★ ★ ★ ★ ★ ↓
6 / 12 / 6	3.55	0.53	0.53	★ ★ ↓	★ ★ ★ ★ ★ ★
6 lowE, #2 / 12 / 6 (EA)	3.00	0.45	0.49	★ ★ ★ ↓	★ ★ ★ ★ ★ ★
6 lowE, #2 / 12Ar / 6 (EA)	2.79	0.45	0.49	★ ★ ★ ↓	★ ★ ★ ★ ★ ★ ↓
6 Bronze / 12 / 6	3.72	0.36	0.29	★ ★ ★ ↓	★ ★ ★ ★ ★
6 Marine Blue / 12 / 6	3.72	0.38	0.38	★ ★ ★ ↓	★ ★ ★ ★ ★
6 F Green / 12 / 6	3.72	0.34	0.21	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Blue Green / 12 / 6	3.72	0.38	0.44	★ ★ ★ ↓	★ ★ ★ ★ ★
6 EuroGrey / 12 / 6	3.72	0.34	0.26	★ ★ ★ ↓	★ ★ ★ ★ ↓
6 Bronze / 12 / 6 lowE (EA)	3.00	0.31	0.27	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 Marine Blue / 12 / 6 lowE (EA)	3.00	0.34	0.36	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 F Green / 12 / 6 lowE (EA)	3.00	0.30	0.41	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 Blue Green / 12 / 6 lowE (EA)	3.00	0.34	0.41	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓
6 EuroGrey / 12 / 6 lowE (EA)	3.00	0.30	0.24	★ ★ ★ ↓	★ ★ ★ ★ ★ ↓

6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.62	0.22	0.25	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.78	0.18	0.23	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.66	0.15	0.20	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.43	0.16	0.20	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.65	0.23	0.25	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.79	0.19	0.23	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.67	0.16	0.20	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.44	0.16	0.21	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.61	0.22	0.24	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.76	0.17	0.23	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.65	0.15	0.20	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.42	0.16	0.21	★★★★★	★★★★★

86 Series Sliding Window

Single Glazed					
5	6.56	0.70	0.73	↓	★★★
6	6.53	0.69	0.73	↓	★★★
6 Bronze	6.53	0.50	0.41	★★	★★
6 Marine Blue	6.53	0.52	0.53	★★	★★
6 F Green	6.53	0.48	0.61	★★	★★
6 Blue Green	6.53	0.52	0.61	★★	★★
6 EuroGrey	6.53	0.48	0.36	★★	★★
8.76 (4 + 0.76 pvb + 4)	6.36	0.63	0.71	★↓	★★★
10.76 (5 + 0.76 pvb + 5)	6.31	0.63	0.72	★↓	★★★
10.76 (5 Bronze + 0.76 pvb + 5)	6.31	0.31	0.15	★★★★	↓
10.76 (5 Marine Blue + 0.76 pvb + 5)	6.31	0.32	0.17	★★★★	↓
10.76 (5 F Green + 0.76 pvb + 5)	6.31	0.33	0.22	★★★★	↓
10.76 (5 Blue Green + 0.76 pvb + 5)	6.31	0.32	0.17	★★★★	↓
10.76 (5 EuroGrey + 0.76 pvb + 5)	6.31	0.29	0.21	★★★★	

Double Glazed					
5 / 12 / 5	3.64	0.58	0.63	★★★↓	★★★★★
5 lowE, #2 / 12 / 5 (EA)	3.02	0.53	0.61	★★★★	★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.82	0.52	0.61	★★★★	★★★★★
6 / 12 / 6	3.64	0.60	0.65	★★★↓	★★★★★
6 lowE, #2 / 12 / 6 (EA)	3.02	0.51	0.60	★★★★	★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.81	0.51	0.60	★★★★	★★★★★
6 Bronze / 12 / 6	3.75	0.40	0.36	★★★★↓	★★★★★
6 Marine Blue / 12 / 6	3.75	0.43	0.48	★★★★↓	★★★★★
6 F Green / 12 / 6	3.75	0.39	0.25	★★★★↓	★★★★★
6 Blue Green / 12 / 6	3.75	0.43	0.55	★★★★↓	★★★★★
6 EuroGrey / 12 / 6	3.75	0.39	0.32	★★★★↓	★★★★★
6 Bronze / 12 / 6 lowE (EA)	3.02	0.36	0.34	★★★★★	★★★★★
6 Marine Blue / 12 / 6 lowE (EA)	3.02	0.39	0.44	★★★★★	★★★★★
6 F Green / 12 / 6 lowE (EA)	3.02	0.35	0.51	★★★★★	★★★★★
6 Blue Green / 12 / 6 lowE (EA)	3.02	0.39	0.51	★★★★★	★★★★★
6 EuroGrey / 12 / 6 lowE (EA)	3.02	0.34	0.30	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.64	0.25	0.30	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.79	0.20	0.28	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.68	0.17	0.25	★★★★★	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.44	0.18	0.25	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.67	0.26	0.31	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.80	0.21	0.28	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.69	0.18	0.25	★★★★★	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.45	0.18	0.25	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.63	0.25	0.30	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.78	0.20	0.28	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.67	0.17	0.25	★★★★★	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.44	0.18	0.25	★★★★★	★★★★★

86 Series Sliding Door

Single Glazed					
5	6.36	0.74	0.78	↓	★★★
6	6.33	0.72	0.78	↓	★★★
6 Bronze	6.33	0.53	0.44	★★	★★
6 Marine Blue	6.33	0.55	0.57	★★	★★
6 F Green	6.33	0.51	0.65	★★	★★
6 Blue Green	6.33	0.55	0.66	★★	★★
6 EuroGrey	6.33	0.51	0.39	★★	★★
8.76 (4 + 0.76 pvb + 4)	6.16	0.66	0.76	★↓	★★★

10.76 (5 + 0.76 pvb + 5)	6.12	0.66	0.77	★ ↓	★★★
10.76 (5 Bronze + 0.76 pvb + 5)	6.12	0.33	0.16	★★★	↓
10.76 (5 Marine Blue + 0.76 pvb + 5)	6.12	0.33	0.19	★★★	↓
10.76 (5 F Green + 0.76 pvb + 5)	6.12	0.34	0.23	★★★	↓
10.76 (5 Blue Green + 0.76 pvb + 5)	6.12	0.33	0.19	★★★	↓
10.76 (5 EuroGrey + 0.76 pvb + 5)	6.12	0.31	0.22	★★★	↓
Double Glazed					
5 / 12 / 5	3.72	0.65	0.68	★★★ ↓	★★★★★ ↓
5 lowE, #2 / 12 / 5 (EA)	2.93	0.55	0.65	★★★	★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.73	0.55	0.65	★★★	★★★★★ ↓
6 / 12 / 6	3.71	0.63	0.70	★★★ ↓	★★★★★ ↓
6 lowE, #2 / 12 / 6 (EA)	2.92	0.54	0.65	★★★	★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.72	0.54	0.65	★★★	★★★★★ ↓
6 Bronze / 12 / 6	3.63	0.42	0.39	★★★ ↓	★★★★★
6 Marine Blue / 12 / 6	3.63	0.45	0.51	★★★ ↓	★★★★★
6 F Green / 12 / 6	3.63	0.41	0.27	★★★ ↓	★★★★★
6 Blue Green / 12 / 6	3.63	0.45	0.59	★★★ ↓	★★★★★
6 EuroGrey / 12 / 6	3.63	0.41	0.35	★★★ ↓	★★★★★
6 Bronze / 12 / 6 lowE (EA)	2.92	0.37	0.36	★★★★★ ↓	★★★★★
6 Marine Blue / 12 / 6 lowE (EA)	2.92	0.41	0.47	★★★★★ ↓	★★★★★ ↓
6 F Green / 12 / 6 lowE (EA)	2.92	0.36	0.54	★★★★★ ↓	★★★★★
6 Blue Green / 12 / 6 lowE (EA)	2.92	0.41	0.54	★★★★★ ↓	★★★★★ ↓
6 EuroGrey / 12 / 6 lowE (EA)	2.92	0.36	0.32	★★★★★ ↓	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.52	0.27	0.32	★★★★★	★★★★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.71	0.21	0.30	★★★★★	★★★★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.60	0.18	0.27	★★★★★ ↓	★★★★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.37	0.19	0.27	★★★★★ ↓	★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.56	0.27	0.33	★★★★★	★★★★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.72	0.22	0.30	★★★★★	★★★★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.61	0.19	0.27	★★★★★ ↓	★★★★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.38	0.19	0.27	★★★★★ ↓	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.52	0.26	0.32	★★★★★	★★★★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.70	0.21	0.30	★★★★★	★★★★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.59	0.18	0.27	★★★★★ ↓	★★★★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.36	0.19	0.27	★★★★★ ↓	★★★★
126 Series Sliding Stacking Door					
Single Glazed					
5	6.26	0.75	0.80	↓	★★★ ↓
6	6.24	0.73	0.80	↓	★★★ ↓
6 Bronze	6.24	0.53	0.44	★★	★★
6 Marine Blue	6.24	0.56	0.58	★★	★★
6 F Green	6.24	0.51	0.67	★★	★★
6 Blue Green	6.24	0.56	0.67	★★	★★
6 EuroGrey	6.24	0.51	0.39	★★	★★
8.76 (4 + 0.76 pvb + 4)	6.07	0.67	0.78	★ ↓	★★★
10.76 (5 + 0.76 pvb + 5)	6.03	0.67	0.78	★ ↓	★★★
10.76 (5 Bronze + 0.76 pvb + 5)	6.03	0.33	0.17	★★★	↓
10.76 (5 Marine Blue + 0.76 pvb + 5)	6.03	0.34	0.19	★★★	↓
10.76 (5 F Green + 0.76 pvb + 5)	6.03	0.35	0.24	★★★	↓
10.76 (5 Blue Green + 0.76 pvb + 5)	6.03	0.34	0.19	★★★	↓
10.76 (5 EuroGrey + 0.76 pvb + 5)	6.03	0.31	0.22	★★★	↓
Double Glazed					
5 / 12 / 5	3.59	0.66	0.72	★★★ ↓	★★★★★ ↓
5 lowE, #2 / 12 / 5 (EA)	2.89	0.56	0.66	★★★	★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.69	0.56	0.66	★★★	★★★★★ ↓
6 / 12 / 6	3.58	0.64	0.71	★★★ ↓	★★★★★ ↓
6 lowE, #2 / 12 / 6 (EA)	2.88	0.54	0.66	★★★	★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.68	0.54	0.66	★★★	★★★★★ ↓
6 Bronze / 12 / 6	3.58	0.43	0.40	★★★★★ ↓	★★★★★
6 Marine Blue / 12 / 6	3.58	0.46	0.52	★★★★★ ↓	★★★★★
6 F Green / 12 / 6	3.58	0.41	0.28	★★★★★ ↓	★★★★★
6 Blue Green / 12 / 6	3.58	0.46	0.60	★★★★★ ↓	★★★★★
6 EuroGrey / 12 / 6	3.58	0.41	0.35	★★★★★ ↓	★★★★★
6 Bronze / 12 / 6 lowE (EA)	2.88	0.38	0.37	★★★★★ ↓	★★★★★
6 Marine Blue / 12 / 6 lowE (EA)	2.88	0.41	0.48	★★★★★ ↓	★★★★★
6 F Green / 12 / 6 lowE (EA)	2.88	0.37	0.55	★★★★★ ↓	★★★★★
6 Blue Green / 12 / 6 lowE (EA)	2.88	0.41	0.55	★★★★★ ↓	★★★★★ ↓

6 EuroGrey / 12 / 6 lowE (EA)	2.88	0.36	0.33	★★★★↓	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.47	0.27	0.33	★★★★	★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.67	0.21	0.31	★★★★★	★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.56	0.18	0.27	★★★★★↓	★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.33	0.19	0.27	★★★★★↓	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.50	0.27	0.33	★★★★	★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.68	0.23	0.31	★★★★★	★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.57	0.19	0.27	★★★★★↓	★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.34	0.19	0.28	★★★★★↓	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.47	0.27	0.33	★★★★	★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.65	0.21	0.31	★★★★★	★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.55	0.18	0.27	★★★★★↓	★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.33	0.19	0.28	★★★★★↓	★★★★★

86 Series Hinged Door

Single Glazed					
5	6.16	0.60	0.64	★↓	★★↓
6	6.14	0.59	0.64	★↓	★★↓
6 Bronze	6.14	0.43	0.36	★★↓	★↓
6 Marine Blue	6.14	0.45	0.46	★★↓	★↓
6 F Green	6.14	0.41	0.53	★★↓	★↓
6 Blue Green	6.14	0.45	0.54	★★↓	★↓
6 EuroGrey	6.14	0.41	0.32	★★↓	★↓
8.76 (4 + 0.76 pvb + 4)	5.97	0.54	0.62	★↓	★★↓
10.76 (5 + 0.76 pvb + 5)	5.93	0.54	0.63	★↓	★★↓
10.76 (5 Bronze + 0.76 pvb + 5)	5.93	0.27	0.13	★★★★↓	
10.76 (5 Marine Blue + 0.76 pvb + 5)	5.93	0.27	0.15	★★★★↓	
10.76 (5 F Green + 0.76 pvb + 5)	5.93	0.28	0.19	★★★★↓	
10.76 (5 Blue Green + 0.76 pvb + 5)	5.93	0.27	0.15	★★★★↓	
10.76 (5 EuroGrey + 0.76 pvb + 5)	5.93	0.25	0.18	★★★★↓	
Double Glazed					
5 / 12 / 5	3.58	0.53	0.58	★★↓	★★★★★↓
5 lowE, #2 / 12 / 5 (EA)	2.84	0.45	0.53	★★★★↓	★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.61	0.43	0.52	★★★★↓	★★★★★
6 / 12 / 6	3.52	0.51	0.57	★★↓	★★★★★↓
6 lowE, #2 / 12 / 6 (EA)	2.83	0.44	0.53	★★★★↓	★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.64	0.44	0.53	★★★★↓	★★★★★
6 Bronze / 12 / 6	3.52	0.35	0.32	★★★★	★★★★↓
6 Marine Blue / 12 / 6	3.52	0.37	0.42	★★★★	★★★★↓
6 F Green / 12 / 6	3.52	0.33	0.22	★★★★	★★★★↓
6 Blue Green / 12 / 6	3.52	0.37	0.48	★★★★	★★★★↓
6 EuroGrey / 12 / 6	3.52	0.33	0.28	★★★★	★★★★↓
6 Bronze / 12 / 6 lowE (EA)	2.83	0.31	0.29	★★★★★↓	★★★★★↓
6 Marine Blue / 12 / 6 lowE (EA)	2.83	0.33	0.38	★★★★★↓	★★★★★↓
6 F Green / 12 / 6 lowE (EA)	2.83	0.30	0.44	★★★★★↓	★★★★★↓
6 Blue Green / 12 / 6 lowE (EA)	2.83	0.33	0.44	★★★★★↓	★★★★★↓
6 EuroGrey / 12 / 6 lowE (EA)	2.83	0.29	0.26	★★★★★↓	★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.42	0.22	0.27	★★★★★↓	★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.62	0.17	0.25	★★★★★	★★★★★↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.52	0.15	0.22	★★★★★↓	★★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.29	0.15	0.22	★★★★★	★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.45	0.22	0.27	★★★★★	★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.63	0.18	0.25	★★★★★	★★★★★↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.53	0.15	0.22	★★★★★↓	★★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.30	0.16	0.22	★★★★★	★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.41	0.22	0.26	★★★★★↓	★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.61	0.17	0.25	★★★★★	★★★★★↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.51	0.15	0.22	★★★★★↓	★★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.29	0.15	0.22	★★★★★	★★★★★↓

70 Series Folding Door

Single Glazed					
5	6.23	0.77	0.84	↓	★★↓
6	6.20	0.75	0.84	↓	★★↓
6 Bronze	6.20	0.55	0.47	★★	★★
6 Marine Blue	6.20	0.57	0.61	★★	★★
6 F Green	6.20	0.53	0.70	★★	★★
6 Blue Green	6.20	0.57	0.70	★★	★★
6 EuroGrey	6.20	0.53	0.41	★★	★★

8.76 (4 + 0.76 pvb + 4)	6.04	0.69	0.82	★ ↓	★★★
10.76 (5 + 0.76 pvb + 5)	5.99	0.69	0.82	★ ↓	★★★
10.76 (5 Bronze + 0.76 pvb + 5)	5.99	0.34	0.17	★★★	↓
10.76 (5 Marine Blue + 0.76 pvb + 5)	5.99	0.35	0.20	★★★	↓
10.76 (5 F Green + 0.76 pvb + 5)	5.99	0.36	0.25	★★★	↓
10.76 (5 Blue Green + 0.76 pvb + 5)	5.99	0.35	0.20	★★★	↓
10.76 (5 EuroGrey + 0.76 pvb + 5)	5.99	0.32	0.24	★★★	↓
Double Glazed					
5 / 12 / 5	3.57	0.68	0.75	★★★ ↓	★★★★★ ↓
5 lowE, #2 / 12 / 5 (EA)	2.87	0.57	0.70	★★★	★★★★★
5 lowE, #2 / 12Ar / 5 (EA)	2.67	0.57	0.70	★★★	★★★★★ ↓
6 / 12 / 6	3.56	0.66	0.75	★★★ ↓	★★★★★ ↓
6 lowE, #2 / 12 / 6 (EA)	2.86	0.56	0.69	★★★	★★★★★
6 lowE, #2 / 12Ar / 6 (EA)	2.67	0.56	0.69	★★★	★★★★★ ↓
6 Bronze / 12 / 6	3.56	0.44	0.42	★★★★ ↓	★★★★
6 Marine Blue / 12 / 6	3.56	0.47	0.54	★★★★ ↓	★★★★
6 F Green / 12 / 6	3.56	0.43	0.29	★★★★ ↓	★★★★
6 Blue Green / 12 / 6	3.56	0.47	0.63	★★★★ ↓	★★★★
6 EuroGrey / 12 / 6	3.56	0.42	0.37	★★★★ ↓	★★★★
6 Bronze / 12 / 6 lowE (EA)	2.86	0.39	0.39	★★★★ ↓	★★★★
6 Marine Blue / 12 / 6 lowE (EA)	2.86	0.42	0.50	★★★★ ↓	★★★★ ↓
6 F Green / 12 / 6 lowE (EA)	2.86	0.38	0.58	★★★★ ↓	★★★★
6 Blue Green / 12 / 6 lowE (EA)	2.86	0.42	0.58	★★★★ ↓	★★★★ ↓
6 EuroGrey / 12 / 6 lowE (EA)	2.86	0.37	0.34	★★★★ ↓	★★★★
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12 / 6	3.45	0.28	0.35	★★★★	★★★★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(EA)	2.65	0.22	0.32	★★★★★	★★★★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS173)	2.54	0.19	0.29	★★★★★ ↓	★★★★ ↓
6 Solar Reflective on 05 Marine Blue 0540, #2 / 12Ar / 6 lowE(DS170)	2.32	0.20	0.29	★★★★★ ↓	★★★★
6 Solar Reflective on 22 F Green 2250, #2 / 12 / 6	3.49	0.28	0.35	★★★★	★★★★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(EA)	2.66	0.23	0.33	★★★★★	★★★★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS173)	2.56	0.19	0.29	★★★★★ ↓	★★★★ ↓
6 Solar Reflective on 22 F Green 2250, #2 / 12Ar / 6 lowE(DS170)	2.33	0.20	0.29	★★★★★ ↓	★★★★
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12 / 6	3.45	0.28	0.35	★★★★	★★★★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(EA)	2.64	0.22	0.32	★★★★★	★★★★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS173)	2.53	0.19	0.28	★★★★★ ↓	★★★★ ↓
6 Solar Reflective on 58 EuroGrey 5840, #2 / 12Ar / 6 lowE(DS170)	2.31	0.19	0.29	★★★★★ ↓	★★★★