

# E RANGE™

low emissivity safety glass

SmartGlass E Range™ coated monolithic glass offers superior thermal insulation in standard frames designed for single glazing. E Range products reduce heating and air-conditioning costs by keeping more heat in during winter and blocking it out during summer.

Low E is a clear glass that maximises light transmission, while Solar E has a denser coating that controls solar heat radiation and glare. Both Low E and Solar E are available in Intruderprufe and Armourplate variants.

For the ultimate in insulating performance, E Range panels can be used in InsulVue double glazed units.

## edge working

The edges of all E Range glass should be polished to reduce the possibility of thermal breakage. Edges must be free of vented damage. These edges may be produced by a straight line polishing machine. Contact SmartGlass for a detailed thermal stress warranty.

## cleaning and processing

The coated surface of E Range highlights finger marks and general dirt. The surface may also highlight any scratches, which would be invisible on a normal glass surface. Please contact SmartGlass for cleaning and processing instructions.

E Range is a sided product, meaning that its appearance may vary when viewed from different sides. Care must be exercised when cutting and glazing to ensure a uniform appearance.



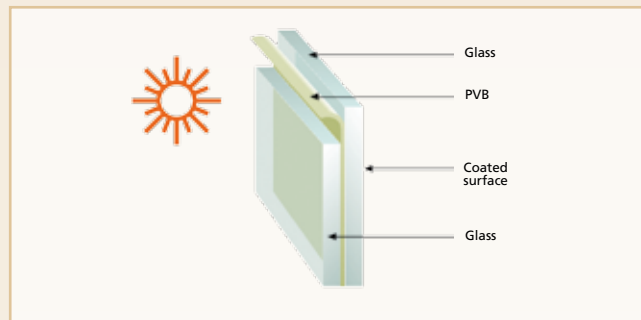
## ColourVue E Range

ColourVue, especially the darker tints, generates a “radiator effect” when the sun shines on the glass. ColourVue E Range eliminates this problem almost completely. The shading coefficient is better, with almost no reduction in light transmission.

## sizes

	Nominal Thickness (mm)	Standard Max. Size (mm)
<b>TOUGHENED SAFETY GLASS</b>		
Armourplate Low E	6.0	3300 x 2000
Armourplate Solar E	5.0	3300 x 2000
<b>LAMINATED SAFETY GLASS</b>		
Aquamarine Low E	7.38	3300 x 2440
Deep Aquamarine Low E	7.76	3300 x 2440
Cool Blue Low E	7.38	3300 x 2440
Deep Cool Blue Low E	7.76	3300 x 2440
Cool Bronze Low E	7.38	3300 x 2440
Deep Cool Bronze Low E	7.76	3300 x 2440
Cool Grey Low E	7.38	3300 x 2440
Deep Cool Grey Low E	7.76	3300 x 2440
Intruderprufe Low E	7.38	3300 x 2440
Intruderprufe Solar E	6.38	3300 x 2440
Regal Blue Low E	7.38	3300 x 2440
Deep Regal Blue Low E	7.76	3300 x 2440
Serene Green Low E	7.38	3300 x 2440

Additional standard stock sizes and thicknesses are available on request. Recommended maximum size will depend on application and design load.



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## performance data

PRODUCT	VISIBLE LIGHT		SOLAR ENERGY					SHADING COEFFICIENT	U VALUE	UV	NOISE CONTROL	SAFETY	SECURITY
	transmission	reflection	total elimination	reflectance	absorption	direct transmission	total transmission	ratio	(W/m <sup>2</sup> ).K	elimination %	ISO rating / STC value	rating (see below)	rating (see below)
<b>E RANGE™</b>													
<b>TOUGHENED SAFETY GLASS</b>													
Armourplate Low E	82	10	36	9	31	60	64	0.74	3.4	51	29	1	0
Armourplate Solar E	59	6	50	6	51	43	50	0.58	3.4	55	29	1	0
<b>LAMINATED SAFETY GLASS</b>													
Aquamarine Low E	68	8	43	8	41	51	57	0.66	3.4	99	33	1	1
Deep Aquamarine Low E	55	7	49	7	50	43	51	0.58	3.4	99	34	2	2
Intruderpufe Low E	82	10	36	9	31	60	64	0.74	3.4	99	33	1	1
Intruderpufe Solar E	59	6	50	6	51	43	50	0.58	3.4	99	33	1	1
Cool Blue Low E	69	8	42	8	39	53	58	0.67	3.4	99	33	1	1
Deep Cool Blue Low E	57	7	46	7	46	47	54	0.62	3.4	99	34	2	2
Cool Bronze Low E	47	6	53	7	54	39	47	0.54	3.4	99	33	1	1
Deep Cool Bronze Low E	31	5	62	6	66	29	38	0.44	3.4	99	34	2	2
Cool Grey Low E	40	6	55	6	57	37	45	0.52	3.4	99	33	1	1
Deep Cool Grey Low E	23	5	64	5	69	26	36	0.42	3.4	99	34	2	2
Regal Blue Low E	53	7	48	8	47	45	52	0.60	3.4	99	33	1	1
Deep Regal Blue Low E	35	6	56	6	59	35	44	0.50	3.4	99	34	2	2
Serene Green Low E	65	9	56	7	57	36	44	0.51	3.4	99	33	1	1

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**SAFETY AND SECURITY RATINGS:** **1.** Normal Strength (NS) for human impact safety (0.38 mm PVB interlayer); **2.** High Penetration Resistant (HPR) for additional security (0.76 mm PVB interlayer); **3.** High Impact (HI) for security in high-risk applications (1.52 mm PVB interlayer). **SABS 1263 compliance:** Ratings 1, 2 and 3: compliance with SABS 1263-1. Rating 3: compliance with SABS 1263-2.

**NOTES:** **1.** This data is based on tests conducted on 6.38 mm thick laminated glass. **2.** To avoid the possibility of thermal stress fracture, it is always advisable to request that a thermal stress evaluation be conducted by SmartGlass. **3.** Shading coefficients and U-Values are calculated using ASHRAE summer daytime conditions. **4.** All values are given as an indication. Slight variations may occur due to the manufacturing tolerances.