

SOLUTIONS FOR VARIOUS NEEDS



Due to its Low-E coating, prevents heat loss through glazing. Does not compromise on natural daylight.



Reduces solar heat gain in summer.



Due to its Solar Control Low-E coating, provides effective thermal insulation by preventing heat loss in winter and decreases solar heat gain in summer. Does not compromise on natural daylight.



Due to its temperable property, Temperable Low-E / Solar Control Low-E Glass is appropriate for using as safety glass as it shatters into small, blunt edged fragments which reduce the risk of injury. Approximately five times stronger than annealed glass against impact.

EXPLANATIONS

Daylight Transmittance (%): The ratio of the visible spectrum (light) that is transmitted through glass.

Daylight Reflectance Outdoor (%): The ratio of the visible spectrum (light) that is reflected outside by glass.

Solar Factor (g value) (%): The percentage of total solar radiant heat energy passing through the glass. The lower solar factor means better solar control.

Shading Coefficient: The ratio of solar factor of a particular glass type to the solar factor of 3 mm clear float glass (0.87), set in identical conditions. The lower shading coefficient means better solar control.

U Value (W/m²K): A measure of the rate of heat loss of a building component. The lower U value means better heat control and more comfort in winter.

Colour Rendering Index (Ra) (%): Describes how much an object's colour changes when it is observed through glazing. The higher the colour rendering index is the more natural the object's colours appear.



sisecamflatglass.com



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COATED GLASS



Glass Performances

HEAT CONTROL GLASS



4 mm Clear Float Glass + 16 mm Cavity + (#3) 4 mm Low-E Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral	79	12	11	97	53	27	21	63	0.72	1.3	1.1

Low-E coating can be placed on the 2nd or 3rd surface of the insulating glass unit.

HEAT & SOLAR CONTROL GLASS



4 mm Solar Control Low-E Glass (#2) + 16 mm Cavity + 4 mm Clear Float Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral	66	25	22	96	41	37	22	44	0.50	1.3	1.1
Neutral Selective	73	11	11	95	41	31	31	43	0.50	1.3	1.1

SOLAR CONTROL GLASS (BODY TINTED)



6 mm Tinted Float Glass + 16 mm Cavity + (#3) 6 mm Low-E Glass / 6 mm Clear Float Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral + Low-E Glass	78	12	12	96	50	26	24	60	0.69	1.3	1.1
Neutral + Clear Float Glass	81	15	15	97	69	13	18	75	0.86	2.7	2.6
Green + Low-E Glass	63	9	11	86	31	8	61	38	0.44	1.3	1.1
Green + Clear Float Glass	66	11	14	87	38	7	55	45	0.52	2.7	2.6
Blue + Low-E Glass	49	8	11	78	29	9	61	36	0.42	1.3	1.1
Blue + Clear Float Glass	50	9	14	79	37	8	56	44	0.51	2.7	2.6
Grey + Low-E Glass	39	6	9	93	27	12	60	36	0.41	1.3	1.1
Grey + Clear Float Glass	40	7	12	94	39	7	54	47	0.54	2.7	2.6
Bronze + Low-E Glass	44	7	10	94	29	12	60	37	0.42	1.3	1.1
Bronze + Clear Float Glass	46	8	13	94	41	7	52	49	0.56	2.7	2.6
Turquoise + Low-E Glass	54	8	10	82	29	8	63	36	0.42	1.3	1.1
Turquoise + Clear Float Glass	56	9	13	83	36	7	57	44	0.50	2.7	2.6

Şişecam Tinted Float Glass is recommended to be used toughened or heat strengthened to avoid thermal breakage risks.

TEMPERABLE HEAT CONTROL GLASS



6 mm Temperable Low-E Glass (#2) + 16 mm Cavity + 6 mm Clear Float Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral 71/53	72	19	17	96	48	25	27	53	0.61	1.3	1.1
Green 59/36	60	14	17	87	30	10	60	35	0.40	1.3	1.1
Blue 45/34	46	10	16	80	28	10	62	33	0.38	1.3	1.1
Grey 36/34	36	8	16	94	28	13	59	33	0.38	1.3	1.1
Bronze 41/35	42	9	16	93	29	13	57	34	0.39	1.3	1.1

TEMPERABLE HEAT & SOLAR CONTROL GLASS



6 mm Temperable Solar Control Low-E Glass (#2) + 16 mm Cavity + 6 mm Clear Float Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
NEW Neutral 70/37	69	15	17	95	34	37	29	36	0.42	1.3	1.0
NEW Neutral 58/32	58	21	20	94	29	36	35	32	0.37	1.3	1.1
NEW Neutral 51/28	50	19	18	94	25	31	45	28	0.32	1.3	1.1
NEW Neutral 50/27	49	16	19	89	23	32	45	26	0.30	1.3	1.1
NEW Deep Blue 40/28	40	19	25	86	23	18	59	28	0.32	1.3	1.1
Neutral 62/44	61	21	21	96	39	27	34	43	0.50	1.3	1.1
Green 51/30	51	16	20	88	25	11	64	29	0.34	1.3	1.1
Blue 39/28	39	11	20	80	23	11	66	28	0.32	1.3	1.1
Grey 31/28	31	9	19	94	23	14	64	28	0.32	1.3	1.1
Bronze 35/29	36	10	20	92	24	14	62	29	0.33	1.3	1.1
Neutral 50/33	50	30	27	93	30	35	35	34	0.39	1.3	1.1
Green 41/25	41	22	27	85	20	14	67	24	0.28	1.3	1.1
Blue 32/24	32	15	26	78	18	13	68	23	0.26	1.3	1.1
Grey 28/26	25	11	26	92	17	16	66	22	0.25	1.3	1.1
Bronze 31/25	29	13	26	94	18	17	65	22	0.26	1.3	1.1
Neutral 41/27	42	36	34	89	24	41	36	27	0.31	1.3	1.1
Green 34/20	35	26	34	81	16	16	69	20	0.23	1.3	1.1
Blue 26/19	26	17	34	74	14	15	71	19	0.22	1.3	1.1
Grey 21/18	21	12	34	88	13	19	68	17	0.20	1.3	1.1
Bronze 24/18	24	15	34	93	14	20	67	18	0.21	1.3	1.1

SOLAR CONTROL GLASS (REFLECTIVE)



6 mm Tentesol (#2) + 16 mm Cavity + (#3) 6 mm Low-E Glass / 6 mm Clear Float Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Silver + Low-E Glass	33	27	31	94	23	29	48	31	0.35	1.3	1.1
Silver + Clear Float Glass	35	28	36	93	36	21	43	43	0.49	2.7	2.6
Green + Low-E Glass	28	19	31	92	14	12	75	20	0.23	1.3	1.1
Green + Clear Float Glass	29	20	35	93	19	11	71	27	0.31	2.7	2.6
Blue + Low-E Glass	21	14	31	87	13	11	76	19	0.22	1.3	1.1
Blue + Clear Float Glass	21	14	36	88	18	10	72	27	0.31	2.7	2.6
Grey + Low-E Glass	17	10	31	94	14	14	73	21	0.24	1.3	1.1
Grey + Clear Float Glass	18	10	35	94	22	10	68	31	0.36	2.7	2.6
Bronze + Low-E Glass	20	12	31	86	15	15	70	22	0.25	1.3	1.1
Bronze + Clear Float Glass	21	12	36	85	24	11	65	33	0.38	2.7	2.6

Şişecam Tentesol is recommended to be used toughened or heat strengthened to avoid thermal breakage risks.

SOLAR CONTROL GLASS (TITANIUM REFLECTIVE)



6 mm Tentesol Titanium (#2) + 16 mm Cavity + (#3) 6 mm Low-E Glass / 6 mm Clear Float Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m ² K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Silver + Low-E Glass	56	33	31	98	38	36	27	46	0.53	1.3	1.1
Silver + Clear Float Glass	59	35	36	99	54	25	21	59	0.68	2.7	2.6
Green + Low-E Glass	45	24	31	89	23	14	63	29	0.34	1.3	1.1
Green + Clear Float Glass	47	25	36	90	29	13	58	36	0.41	2.7	2.6
Blue + Low-E Glass	34	17	31	80	21	13	66	28	0.32	1.3	1.1
Blue + Clear Float Glass	36	17	36	81	28	12	60	35	0.41	2.7	2.6
Grey + Low-E Glass	28	12	30	96	22	16	62	29	0.34	1.3	1.1
Grey + Clear Float Glass	30	12	34	97	32	11	57	41	0.47	2.7	2.6
Turquoise + Low-E Glass	39	18	29	84	22	13	66	28	0.32	1.3	1.1
Turquoise + Clear Float Glass	41	19	34	85	28	11	61	36	0.41	2.7	2.6

Şişecam Tentesol Titanium is recommended to be used toughened or heat strengthened to avoid thermal breakage risks.