SOLUTIONS FOR VARIOUS NEEDS

HEAT CONTROL

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

SOLAR CONTROL

Reduces solar heat gain in summer.

HEAT & SOLAR CONTROL

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. Do not compromise on natural daylight.

SAFETY

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.

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2016

ŞİŞECAM LOW-E GLASS

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/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral	78	12	11	95	51	24	24	61	0.70	1.3	1.1

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

ŞİŞECAM SOLAR CONTROL LOW-E GLASS

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/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral	65	25	22	96	40	37	23	44	0.50	1.3	1.1
Neutral Selective	73	11	11	94	41	29	29	45	0.52	1.3	1.1

ŞİŞECAM TINTED FLOAT GLASS

SOLAR CONTROL GLASS (BODY TINTED)

6 mm Tinted Float Glass + 16 mm Cavity + (#3) 6 mm Low-E Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral	77	11	12	95	48	22	30	58	0.67	1.3	1.1
Green	63	9	11	86	31	8	61	38	0.44	1.3	1.1
Blue	49	8	11	78	29	9	62	36	0.42	1.3	1.1
Grey	39	6	9	93	27	12	61	36	0.41	1.3	1.1
Bronze	44	6	10	94	29	12	59	37	0.43	1.3	1.1
Turquoise	54	8	10	82	29	8	63	36	0.42	1.3	1.1

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

ŞİŞECAM TEMPERABLE LOW-E GLASS

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/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral 71/53	71	18	17	95	46	25	29	53	0.60	1.3	1.1
Green 59/36	58	14	16	86	29	10	61	35	0.40	1.3	1.1
Blue 45/34	45	10	15	79	27	10	62	33	0.38	1.3	1.1
Grey 36/34	36	8	15	93	26	13	61	33	0.38	1.3	1.1
Bronze 41/35	41	9	15	94	28	13	59	34	0.39	1.3	1.1

ŞİŞECAM TEMPERABLE SOLAR CONTROL LOW-E GLASS

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/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Neutral 71/43	71	14	14	96	38	33	29	43	0.50	1.3	1.1
Green 59/32	59	10	13	87	27	10	63	32	0.37	1.3	1.1
Blue 45/30	45	8	12	79	24	11	65	29	0.33	1.3	1.1
Grey 36/27	36	7	12	94	21	16	62	27	0.31	1.3	1.1
Bronze 41/28	41	7	12	93	23	16	61	28	0.32	1.3	1.1
Neutral 62/44	60	21	20	95	38	27	36	43	0.50	1.3	1.1
Green 51/30	51	17	22	86	24	12	63	30	0.34	1.3	1.1
Blue 39/28	39	12	20	79	22	12	66	28	0.32	1.3	1.1
Grey 31/28	30	8	19	93	22	14	65	27	0.32	1.3	1.1
Bronze 35/29	35	10	19	93	23	14	63	28	0.33	1.3	1.1
Neutral 50/33	49	30	26	92	29	35	37	34	0.39	1.3	1.1
Green 41/25	41	22	26	84	19	14	68	24	0.28	1.3	1.1
Blue 32/24	31	15	25	76	17	13	69	23	0.26	1.3	1.1
Grey 28/26	25	11	25	90	16	16	67	22	0.25	1.3	1.1
Bronze 31/25	28	13	25	94	17	17	66	22	0.26	1.3	1.1
Neutral 41/27	41	36	33	88	23	41	37	27	0.31	1.3	1.1
Green 34/20	34	26	32	80	16	16	69	20	0.23	1.3	1.1
Blue 26/19	26	17	32	72	14	15	71	19	0.22	1.3	1.1
Grey 21/18	21	12	32	86	13	19	68	17	0.20	1.3	1.1
Bronze 24/18	24	15	32	92	13	20	67	18	0.21	1.3	1.1

ŞİŞECAM TENTESOL

SOLAR CONTROL GLASS (REFLECTIVE)

6 mm Tentesol (#2) + 16 mm Cavity + (#3) 6 mm Low-E Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Silver	33	27	31	94	23	29	48	31	0.35	1.3	1.1
Green	28	19	31	92	14	11	74	20	0.23	1.3	1.1
Blue	21	14	32	87	13	11	76	19	0.22	1.3	1.1
Grey	17	10	31	94	14	14	73	21	0.24	1.3	1.1
Bronze	20	12	31	86	15	15	70	22	0.25	1.3	1.1

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

ŞİŞECAM TENTESOL TITANIUM

SOLAR CONTROL GLASS (TITANIUM REFLECTIVE)

6 mm Tentesol Titanium (#2) + 16 mm Cavity + (#3) 6 mm Low-E Glass	Daylight (EN 410)			Colour Rendering Index (Ra) %	Solar Energy (EN 410)					Thermal Conductivity (U Value) W/m²K (EN 673)	
	Transmittance %	Reflectance Outdoor %	Reflectance Indoor %		Direct Transmittance %	Reflectance Outdoor %	Absorption %	Solar Factor (g value) %	Shading Coefficient	Dry Air	Argon
Silver	56	35	31	98	37	38	24	46	0.53	1.3	1.1
Green	45	24	31	89	23	14	63	29	0.34	1.3	1.1
Blue	34	17	32	80	21	13	66	28	0.32	1.3	1.1
Grey	28	11	30	95	22	16	62	29	0.34	1.3	1.1
Turquoise	39	18	30	84	22	12	66	28	0.33	1.3	1.1

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

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.