

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 | 1.1 |
| 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.