

SAGEGLASS CLIMAPLUS CLASSIC

DOUBLE GLAZING 42.1EC-12-4

Electronically tintable glazing for curtain walls, windows and skylights



DESCRIPTION

- Tint level changes automatically or manually, to control the adverse effects of sunlight including glare and excessive solar heat gain
- Remains transparent, providing an unimpeded view to the outdoors all day long
- Replaces mechanical shading systems and internal blinds
- Available in standard SageGlass, or LightZone® or Harmony™

PRODUCT CHARACTERISTICS¹

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|---------------------------------|---|
| MAXIMUM GLASS SIZE ² | 1524 × 3048 mm |
| WEIGHT | 26 kg/m ² |
| TOTAL THICKNESS | 23 mm (+/- 1 mm tolerance) |
| SPACER TYPE | Stainless steel, mill finished or black |
| CAVITIES | 12 mm Krypton fill |
| SEALING (PRIMARY/SECONDARY) | Polyisobutylene PIB / Silicone |
| OUTER PANE LAMINATE | 4 mm heat strengthened glass / SentryGlas® 0.9 mm / 2.2 mm clear glass with SageGlass® EC coating |
| INNER PANE | 4 mm heat strengthened glass with low emissivity coating* |

TECHNICAL SPECIFICATIONS

| | | CLEAR | LIGHT | MID | FULL |
|-----------------------------|-------------------------|----------------------------|-----------------|-----------|-----------|
| EXTERNAL COLOUR | <i>In reflectance</i> | neutral | neutral | neutral | neutral |
| INTERNAL COLOUR | <i>In transmittance</i> | neutral | light blue-grey | blue-grey | blue-grey |
| VISIBLE LIGHT TRANSMITTANCE | <i>EN 410</i> | 60% | 17% | 5% | 1% |
| EXTERNAL LIGHT REFLECTANCE | <i>EN 410</i> | 16% | 10% | 10% | 11% |
| INTERNAL LIGHT REFLECTANCE | <i>EN 410</i> | 15% | 10% | 10% | 10% |
| UV TRANSMITTANCE | <i>EN 410</i> | 0% | 0% | 0% | 0% |
| G-VALUE (SOLAR FACTOR) | <i>EN 410</i> | 0.40 | 0.12 | 0.07 | 0.05 |
| U-VALUE AT 90% KRYPTON FILL | <i>EN 673</i> | 1.1 W/(m ² .K) | | | |
| SOUND REDUCTION RW (C, CTR) | <i>EN 140-3</i> | 31 (-3;-6) dB ³ | | | |
| SWITCH SPEED | | 10 minutes ⁴ | | | |

CONFORMITY

| | |
|------------------------------------|-------------------|
| CERTIFICATIONS | CE mark (EN 1279) |
| ELECTROCHROMIC DURABILITY STANDARD | ASTM E-2141 |

CHARACTERISTICS

| | |
|-----------------------------|--|
| PIGTAIL CABLE AND CONNECTOR | Standard pigtail length is 125 mm with male end-connector (H x W x T: 5.25 mm x 82 mm x 12.7 mm) |
| VOLTAGE SUPPLIED TO GLASS | Maximum 5V exclusively controlled by the SageGlass® Control System |
| FRAME INTEGRATION | Recommended edge coverage on 4 edges minimum 16 mm for esthetics and thermal reason |
| FRAME COMPATIBILITY | Façades, curtain walls, windows, structural systems, skylights |
| SHAPES | Several shapes available, see <i>SCS-046 IGU Cut Sheet</i> |
| DRILLING | Not possible |
| UNPOWERED STATE | Clear |

¹Represents a standard configuration for performance measurements purposes - other options available

²May be subject to additional size and weight constraints

³Simulated values

⁴Switching speed is an estimate dependent on glass size, temperature, and sun-position. The value represents the time it takes to switch over 90% of the visible light transmission range and assumes 1000 mm glass width, at 24° C in direct sun.