SageGlass® Climatop Classic 42.1EC-12-4-12-4

Electronically tintable glazing for curtain walls, windows and skylights

Ug 0.6

DESCRIPTION

– Triple insulating Glass Unit
– Changes its level of tint to modulate sun light, solar heat gain and glare
– Remains transparent without blocking the view
– Replaces external blinds and internal shades
– LightZone™ – up to three separate tintzones within the glass unit
– Controlled by the SageGlass® control system (automatically and/or manually)

PRODUCT CHARACTERISTICS

Maximum glass size	≤ 1520 × 3050 mm
Composition*	Triple glazing 42.1EC-12-4-12-4
Spacer type	Stainless steel, mill finished or black
Spacer thickness	12 mm
Sealing	Polyisobutylene PIB / silicone
Filling of the gap	Krypton
Outer pane laminated	4 mm heat strengthened glass with SR2.0 reflective coating, Sentryglas® 0.9 mm 2.2 mm clear glass with SageGlass® EC coating
Middle pane	4 mm heat strengthened glass
Inner pane	4 mm heat strengthened glass with low emissivity coating*

TECHNICAL SPECIFICATIONS

		Clear	Intermediate 1	Intermediate 2	Dark
External colour	In reflexion	neutral	neutral	neutral	neutral
Internal colour	In transmittance	neutral	light blue-grey	blue-grey	blue-grey
Light factors	light transmission	54%	16%	5%	1%
EN 410	RL ext	19%	10%	10%	11%
D65 2°	RL int	20%	16%	16%	16%
UV	Transmission uv	0%	0%	0%	0%
	Solar factor g	0.36	0.09	0.05	0.03
EN 673	U value, 90% Krypton	0.6 W/(m².K)			
EN 140-3	Sound reduction Rw (C,Ctr)	32 (-1;-5) dB***			
Weight		36 kg/m²			
Total thickness	Tolerances +/- 1 mm	39 mm			
Switch speed		5 to 15 minutes**			

CONFORMITY

Certifications	CE mark (EN 1279, EN 1096, EN 12543, EN 12600, EN 410, EN 14449, EN 1863)
Electrochromic norm	ASTM E-2141 (100.000 cycles passed)

CHARACTERISTICS

Operating temperature	From -30°C to 80°C
Pigtail cable and connector	1 cable standard length 125 mm with male connector
Supply voltage	Maximum 5V exclusively controled by the SageGlass® control system
Visible busbar (option)	If the shorter side is ›1 m, not to excess the switching speed
Frame integration	Edge covering including sealing on 4 edges mini of 16 mm (recommended). Space between IGU and frame on the pigtail side, 7 mm for the connector
Frame compatibility	Façades, curtain walls, windows, structural systems, skylights etc.
Shapes	Rectangle, triangle, trapezoidal etc.
Drilling	Not possible

* the structure of the glass is calculated project-specific
** to reach 90% of its tint range at room temperature
*** simulated values