

CW 65-EF

Unitised façade system with maximum transparency



CW 65-ElementFaçade enables unitised façades to be completely preassembled in the workshop. This results in a high execution speed on site.

Productivity here however embraces architectural aesthetic requirements as the CW 65-EF works with slender profiles of only 65 mm. The slender profile is very strong and can be used for maximum widths of 1600 mm and heights up to 3700 mm.

The façade system is thus very well suited for high-rise constructions. Profiles can easily be adapted to fit project depending requirements.

CW 65-EF provides increased insulation with an Uf value of up to 2.6 W/m²K. The Opening elements such as a top hung and parallel opening window can also be integrated into the system.

CW 65-EF is available in Structural Glazing which is utilised in a very aesthetic fashion. The only border between two glass plates is a minimal joint of 16 mm, which is finished off with a recessed EPDM seal. The glass plate itself is glued directly onto a preassembled frame, thereby reducing the required number of components and minimising the construction time.



TECHNICAL CHARACTERISTICS



Style variants	CW 65-EF	CW 65-EF-SG
Max dimensions W x H	1.600 mm x 3.700 mm	1.600 mm x 3.700 mm
Interior visible width	65 mm	65 mm
Exterior visible width	65 mm	16 mm joint between glass
Depth mullions	152,4 mm	121,5 mm
Depth transom	151,9 mm	121 mm
Exterior aesthetics	Aluminium glazing beads	Glass wall
Glazing	Glazing bead + EPDM gasket	Bonded on a natural anodised surface with a 18,5 mm width
Glass thickness	From 4 to 36 mm	From 4 to 40 mm
Inertia outer frame (Ix: wind load)	Min. 89,9 cm ⁴ to max. 95 cm ⁴	Min. 115 cm ⁴ to max. 123,7 cm ⁴
Inertia outer frame (Iy: glass load)	Min. 5,7cm ⁴ to max. 7 cm ⁴	Min. 4,7cm ⁴ to max. 6,2 cm ⁴
Inertia transoms (Ix: wind load)	128,4 cm ⁴	183 cm ⁴
Inertia transoms (Iy: glass load)	57,9 cm ⁴	72,7 cm ⁴
Types of vent	All Reynaers systems, top hung window, POW window	---

PERFORMANCES

ENERGY	CW 65-EF	CW 65-EF-SG
Thermal insulation (EN 10077-2) ⁽¹⁾ (EN 13947) ⁽²⁾	Uf ≥ 2,54 W/m ² K, depending on the profile combination.	Utj ≥ 7,6 W/m ² K
COMFORT		
Air tightness ⁽³⁾ , max.test pressure		Class AE 700
Water tightness ⁽⁴⁾ (EN 12155, EN 12154)		Class RE 1200
Wind load resistance ⁽⁵⁾ , max test pressure (EN 12179, EN 13166)	1800	1400

This table shows possible classes and values of performances. The values indicated in red are the ones relevant to this system.

(1) The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.

(2) Uf value including spacer effect.

(3) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.

(4) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.

(5) The wind load resistance is a measure of the profile's structural strength and is tested by applying increasing levels of air pressure to simulate the wind force.