# CW 65-EF

## Unitised façade system with maximum transparency

REYNAERS
aluminium

CW 65-Element Façade enables unitised façades to be completely pre-assembled in the workshop. This results in a high execution speed on the 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 be integrated into the system.

The high insulation variant, CW 65-EF-HI, provides an increased insulation with Uf-value of up to 1,5 W/m²K and allows installation of triple glazing up to 63mm glass thickness.

CW 65-EF is also available in the aesthetic looking structural glazing version where the glass plates are separated by a minimum joint of 16mm. The glass plate itself is glued directly onto a pre-assembled frame, reducing the required number of components and further minimizing the construction time.

## TECHNICAL CHARACTERISTICS

| |  |  |  |
|---|---|---|---|
| Style variants | **CW 65-EF** | **CW 65-EF-HI** | **CW 65-EF-SG** |
| Max. dimensions W x H | 1.600 mm x 3.700 mm | 1.550 mm x 3.500 mm | 1.600 mm x 3.700 mm |
| Interior visible width | 65 mm | 65 mm | 65 mm |
| Exterior visible width | 65 mm | 65 mm | 16 mm joint between glass |
| Depth mullions | 152,4 mm | 178,7 mm | 121,5 mm |
| Depth transom | 151,9 mm | 177,7 mm | 121 mm |
| Exterior aesthetics | Aluminium glazing beads | Aluminium glazing beads | Glass wall |
| Glazing | Glazing bead + EPDM gasket | Glazing bead + EPDM gasket | Bonded on a natural anodised surface with a 18,5 mm width |
| Glass thickness | From 4 to 36 mm | From 34 to 63 mm | From 4 to 40 mm |
| Glass weight | 300 kg | 300 kg | 250 kg |
| Inertia outer frame (Ix: wind load) | 105 - 111 $cm^4$ | 165 - 173 $cm^4$ | 115 - 123,8 $cm^4$ |
| Inertia outer frame (Iy: glass load) | 5,8 - 10,1 $cm^4$ | 6,5 - 10,5 $cm^4$ | 4,7 - 9,6 $cm^4$ |
| Inertia transoms (Ix: wind load) | 128,4 $cm^4$ | 187,9 $cm^4$ | 183 $cm^4$ |
| Inertia transoms (Iy: glass load) | 58 $cm^4$ | 58,8 $cm^4$ | 72,7 $cm^4$ |
| Types of vent | All Reynaers systems, top hung window, POW window | --- | --- |

## PERFORMANCES

| | **ENERGY** | **CW 65-EF** | **CW 65-EF-HI** | **CW 65-EF-SG** |
|---|---|---|---|---|
| | Thermal insulation (EN 13947) (1) | Uf ≥ 2,54 W/m²K, depending on the profile combination | Uf ≥ 1,51 W/m²K, depending on the profile combination | Utj ≥ 7,6 W/m²K, depending on the profile combination and glass composition |
| | **COMFORT** | | | |
| | Air tightness (2), max.test pressure | Class A4 | Class A4 | Class AE 700 |
| | Water tightness (3) (EN 12155, EN 12154) | Class RE 1200 | | |
| | Wind load resistance (4), max test pressure (EN 12179, EN 13116) | 1800 Pa | 1800 Pa | 1400 Pa |
| | Resistance against impact EN 14019 - test report 09.1175 | E5/I5 | | |

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) The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
(3) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
(4) 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.

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