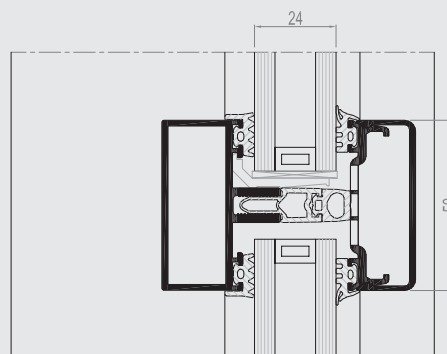


CW 50

Curtain Walls

R
REYNAERS
aluminium



CW 50 is a curtain wall façade and roof system that offers unlimited creative freedom and allows maximum entrance of light into the building. The system offers 11 individual styles with various outside appearances.

Any combination of vertical and inclined planes are possible together with the integration of different types of vents. The extensive range offers technical solutions for the different performance requirements of a façade such as fireproof and high insulating solutions.

For more information on Reynaers visit www.barbourproductsearch.info



TECHNICAL CHARACTERISTICS

| |  |  |  |  |
|-----------------------------------|---|---|--|---|
| Style variants | CW 50 functional | CW 50 SWISS SOLUTION rationalized system | CW 50-FP Fire Proof EI 30 & EI 60 | CW 50-HI ultimate thermal comfort |
| Interior visible width | 50 mm | 50 mm | 50 mm | 50 mm |
| Depth mullions | from 42 mm to 230 mm | from 62.5 mm to 104.5 mm | from 63 mm to 105 mm | from 41.5 mm to 230 mm |
| Depth transoms | from 5 mm to 193 mm | from 62.5 mm to 104.5 mm | from 63 mm to 105 mm | from 4.7 mm to 193.2 mm |
| Inertia mullions (lx: wind load) | min 14 cm ⁴ to max 1199 cm ⁴ | min 36.5 cm ⁴ to max 119.5 cm ⁴ | min 37 cm ⁴ to max 123 cm ⁴ | min 13.5 cm ⁴ to max 1199 cm ⁴ |
| Inertia transoms (lx: wind load) | min 4 cm ⁴ to max 535 cm ⁴ | min 36.5 cm ⁴ to max 119.5 cm ⁴ | min 34 cm ⁴ to max 107 cm ⁴ | min 3.5 cm ⁴ to max 534.7 cm ⁴ |
| Inertia transoms (ly: glass load) | min 8 cm ⁴ to max 57 cm ⁴ | min 16.9 cm ⁴ to max 25.4 cm ⁴ | min 18 cm ⁴ to max 26 cm ⁴ | min 7.9 cm ⁴ to max 57 cm ⁴ |
| Exterior visible width | 50 mm | 50 mm | 50 mm | 50 mm |
| Exterior face caps | different shapes available | different shapes available | different shapes available | different shapes available |
| Glazing | fixing by pressure plates | fixing by pressure plates | fixing by pressure plates | fixing by pressure plates |
| Rebate height | 20 mm | 20 mm | 20 mm | 20 mm |
| Glass thickness | from 6 mm to 44 mm | up to 44 mm | 33 mm | from 30 mm to 46 mm |
| Type of vents | all Reynaers systems top hung window (glass from 23-32 mm) POW window (glass from 22-28 mm) | all Reynaers systems top hung window (glass from 23-32 mm) POW window (glass from 22-28 mm) | CS 68-FP doors | all Reynaers systems vents of the CS 77 & CS 86-HI windows preferred |
| Roof application | yes | no | no | no |

TECHNICAL CHARACTERISTICS

| |  |  |  |  |
|-----------------------------------|---|---|--|---|
| Style variants | CW 50-SL slender appearance | CW 50 ALU ON STEEL designed for steel structure | CW 50-HL aesthetical horizontal lining | CW 50-SG structural sealed glazing |
| Interior visible width | 15/50 mm | 50 mm | 50 mm | 50/88 mm |
| Depth mullions | from 125.5 mm to 167.5 mm | 67.5 mm | from 41.5 mm to 230 mm | from 41.5 mm to 230 mm |
| Depth transoms | from 99.4 mm to 172.2 mm | from 5 mm to 57 mm | from 4.7 mm to 193.2 mm | from 4.7 mm to 193.2 mm |
| Inertia mullions (lx: wind load) | min 159.5 cm ⁴ to max 339.2 cm ⁴ | not applicable | min 13.5 cm ⁴ to max 1199.4 cm ⁴ | min 13.5 cm ⁴ to max 1199.4 cm ⁴ |
| Inertia transoms (lx: wind load) | min 71.5 cm ⁴ to max 387.5 cm ⁴ | min 4 cm ⁴ to max 14.6 cm ⁴ | min 3.5 cm ⁴ to max 534.7 cm ⁴ | min 3.5 cm ⁴ to max 534.7 cm ⁴ |
| Inertia transoms (ly: glass load) | min 9.1 cm ⁴ to max 10.5 cm ⁴ | min 2.9 cm ⁴ to max 12.5 cm ⁴ | min 7.9 cm ⁴ to max 57 cm ⁴ | min 7.9 cm ⁴ to max 57 cm ⁴ |
| Exterior visible width | 50 mm | 50 mm | vertical: 30 mm joint horizontal: 50 mm pressure plate | EPDM gasket of 27 mm width |
| Exterior face caps | different shapes available | different shapes available | special pointed arch shaped face cap | not applicable |
| Glazing | fixing by pressure plates | fixing by pressure plates | fixing by horizontal pressure plates | structural glazing glued on cassettes |
| Rebate height | 20 mm | 20 mm | 20 mm | structural sealed glazing |
| Glass thickness | up to 44 mm | up to 44 mm | from 22 to 44 mm | from 24 to 36 mm |
| Type of vents | all Reynaers systems top hung window (glass from 23 - 32 mm) POW window (glass from 22 - 28 mm) | all Reynaers systems top hung window (glass from 23 - 32 mm) POW window (glass from 22 - 28 mm) | structural top hung window (glass from 23 - 32 mm) | structural top hung window (glass from 24 - 36 mm) |
| Roof application | yes | yes | no | no |



TECHNICAL CHARACTERISTICS



| Style variants | CW 50-SC | CW 50-RA | CW50 (TUTI HIDDEN VENT/ ACCESSORIES) |
|-----------------------------------|--|--|--|
| Interior visible width | 50 mm | 50 mm | 50/80 mm |
| Depth mullions | from 41.5 mm to 230 mm | from 41.5 mm to 230 mm | from 83.5 mm to 146.5 mm |
| Depth transoms | from 4.7 mm to 193.2 mm | from 4.7 mm to 193.2 mm | from 83.5 mm to 146.5 mm |
| Inertia mullions (Ix: wind load) | min 13.5 cm ⁴ to max 1199.4 cm ⁴ | min 13.5 cm ⁴ to max 1199.4 cm ⁴ | min 33.6 cm ⁴ to max 155.4 cm ⁴ |
| Inertia transoms (Ix: wind load) | min 3.5 cm ⁴ to max 534.7 cm ⁴ | min 3.5 cm ⁴ to max 534.7 cm ⁴ | min 33.6 cm ⁴ to max 155.4 cm ⁴ |
| Inertia transoms (Iy: glass load) | min 7.9 cm ⁴ to max 57 cm ⁴ | min 7.9 cm ⁴ to max 57 cm ⁴ | min 3.7 cm ⁴ to max 7 cm ⁴ |
| Exterior visible width | joint: 20 mm | 50 mm | 50 mm |
| Exterior face caps | not applicable | different shapes available | different shapes available |
| Glazing | clamped solution | fixing by pressure plates | fixing by pressure plates structural sealed glazing |
| Rebate height | structural sealed glazing | 20 mm | 20 mm/structural sealed glazing |
| Glass thickness | from 27 mm to 40 mm | up to 44 mm | opening window 22-26 mm |
| Type of vents | structural top hung window (glass from 27-40 mm) | attic window | turn turn-tilt bottom-hung window |
| Roof application | no | yes | no |

PERFORMANCES

ENERGY

Thermal Insulation⁽¹⁾
EN 10077-2

Specific test per profile combination -
please contact your Reynaers Aluminium fabricator

COMFORT

Acoustic performance⁽²⁾
EN ISO 140-3; EN ISO 717-1

Rw (C; Ctr) = 34 (-1; -4) dB / 48 (-2; -8) dB, depending on glazing type

Air tightness, max. test pressure⁽³⁾
EN 12153, EN 12152

A4

Water tightness⁽⁴⁾
EN 12155, EN 12154

| R4 | R5 | R6 | R7 | RE |
|-----|-----|-----|-----|-----|
| 150 | 300 | 450 | 600 | 900 |

Wind load resistance, max. test pressure⁽⁵⁾
EN12179, EN13166

1500 Pa

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 sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.
- (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. There are up to five levels of wind resistance (1 to 5) and three deflection classes (A,B,C). The higher the number, the better the performance.