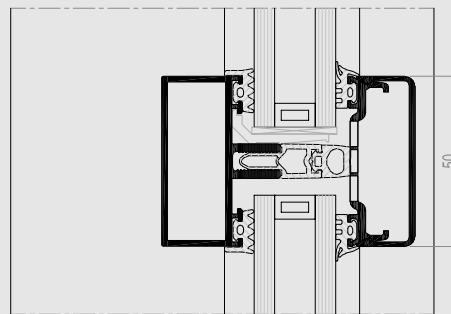




# CW 50

Maximum natural light



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.

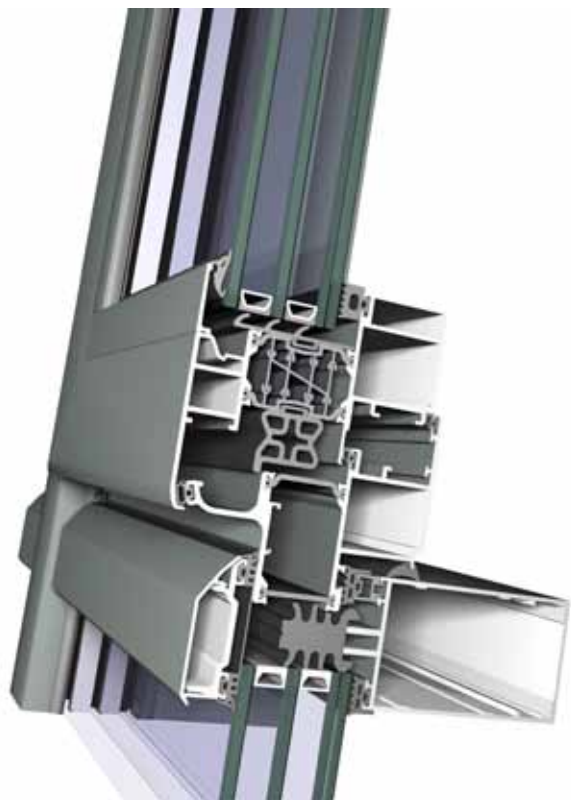
Any combination of vertical and inclined planes are possible together with the integration of different types of vents. The extensive range offers technical solutions for the different performance requirements of a façade such as fireproof and high insulating solutions.



Reynaers curtain walls are designed to meet the requirements of contemporary architecture. In extension to that, additional more practical features to these curtain walls, like roof vent applications, should not disrupt the global design of the building. The Flush Roof Vent, which can be integrated in CW50 - as well as in CW60 and CR120 - has been developed to perfectly blend into the buildings' outer shell without causing any disruption to the surface. The roof application can be placed in surfaces with inclination angles of 5° up to 80°, thus not limiting but on the contrary stimulating architectural creativity.

An increased insulation is assured for both available design versions of the Flush Roof vent - the basic insulated system and the high-end superior system HI - by the use of additional insulation gaskets and longer insulation strips. The possibility to integrate 52 mm glass in the HI version further enhances thermal efficiency.


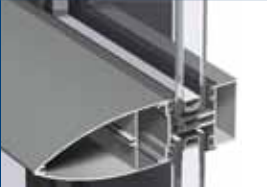
The Flush Roof Vent has been developed to ensure ventilation: an essential topic when it comes to indoor air quality. The solution is available in a top-hung as well as bottom-hung version and can be operated manually (with handle or spindle) or automatically. The latter motor-operated version is especially convenient within building management systems or in roof windows in hard-to-reach places.




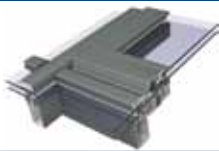

## TECHNICAL CHARACTERISTICS

				
Style variants	CW 50	CW 50 SWISS SOLUTION	CW 50-FP	CW 50-HI
	functional	rationalized system	Fire Proof EI 30 & EI 60	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 <sup>4</sup> to max 1199 cm <sup>4</sup>	min 36.5 cm <sup>4</sup> to max 119.5 m <sup>4</sup>	min 37 cm <sup>4</sup> to max 123 cm <sup>4</sup>	min 13.5 cm <sup>4</sup> to max 1199 cm <sup>4</sup>
Inertia transoms (lx: wind load)	min 4 cm <sup>4</sup> to max 535 cm <sup>4</sup>	min 36.5 cm <sup>4</sup> to max 119.5 cm <sup>4</sup>	min 34 cm <sup>4</sup> to max 107 cm <sup>4</sup>	min 3.5 cm <sup>4</sup> to max 534.7 cm <sup>4</sup>
Inertia transoms (ly: glass load)	min 8 cm <sup>4</sup> to max 57 cm <sup>4</sup>	min 16.9 cm <sup>4</sup> to max 25.4 cm <sup>4</sup>	min 18 cm <sup>4</sup> to max 26 cm <sup>4</sup>	min 7.9 cm <sup>4</sup> to max 57 cm <sup>4</sup>
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 62 mm	from 6 mm to 44 mm	33 mm/48 mm	from 22 mm to 62 mm
Type of vents	all Reynaers systems top hung window (glass from 23-34 mm) POW (glass from 22-28 mm)	all Reynaers systems top hung window (glass from 23-34 mm) POW (glass from 22-28 mm)		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	CW 50 ALU ON STEEL	CW 50-HL	CW 50-SG
	slender appearance	designed for steel structure	aesthetical horizontal lining	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 <sup>4</sup> to max 339.2 cm <sup>4</sup>	not applicable	min 13.5 cm <sup>4</sup> to max 1199.4 cm <sup>4</sup>	min 13.5 cm <sup>4</sup> to max 1199.4 cm <sup>4</sup>
Inertia transoms (lx: wind load)	min 71.5 cm <sup>4</sup> to max 387.5 cm <sup>4</sup>	min 4 cm <sup>4</sup> to max 14.6 cm <sup>4</sup>	min 3.5 cm <sup>4</sup> to max 534.7 cm <sup>4</sup>	min 3.5 cm <sup>4</sup> to max 534.7 cm <sup>4</sup>
Inertia transoms (ly: glass load)	min 9.1 cm <sup>4</sup> to max 10.5 cm <sup>4</sup>	min 2.9 cm <sup>4</sup> to max 12.5 cm <sup>4</sup>	min 7.9 cm <sup>4</sup> to max 57 cm <sup>4</sup>	min 7.9 cm <sup>4</sup> to max 57 cm <sup>4</sup>
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 62 mm	up to 62 mm	from 22 mm to 48 mm	from 24 mm to 36 mm
Type of vents	all Reynaers systems top hung window (glass from 23 - 34 mm) POW (glass from 22 - 28 mm)	all Reynaers systems top hung window (glass from 23 - 34 mm) POW (glass from 22 - 28 mm)	structural top hung window (glass from 23 - 34 mm)	structural top hung window (glass from 24 - 36 mm)
Roof application	yes	yes	no	no

## TECHNICAL CHARACTERISTICS

			
Style variants	<b>CW 50-SC</b>	<b>CW 50-RA FLUSH ROOF VENT</b>	<b>CW 50/TUTI HIDDEN VENT (CW 50-SC/TUTI HIDDEN VENT)</b>
	structural clamped glazing	designed for special constructions	extra opening types
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 <sup>4</sup> to max 1199.4 cm <sup>4</sup>	min 13.5 cm <sup>4</sup> to max 1199.4 cm <sup>4</sup>	min 33.6 cm <sup>4</sup> to max 155.4 cm <sup>4</sup>
Inertia transoms (Ix: wind load)	min 3.5 cm <sup>4</sup> to max 534.7 cm <sup>4</sup>	min 3.5 cm <sup>4</sup> to max 534.7 cm <sup>4</sup>	min 33.6 cm <sup>4</sup> to max 155.4 cm <sup>4</sup>
Inertia transoms (Iy: glass load)	min 7.9 cm <sup>4</sup> to max 57 cm <sup>4</sup>	min 7.9 cm <sup>4</sup> to max 57 cm <sup>4</sup>	min 3.7 cm <sup>4</sup> to max 7 cm <sup>4</sup>
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 and glazing beads	fixing by pressure plates structural sealed glazing (clamped solution)
Rebate height	structural sealed glazing	20 mm	20 mm/structural sealed glazing
Glass thickness	from 27 mm to 63 mm	roof application : from 6mm to 45mm	opening window 22-28 mm (open. window-SC 29-32mm)
Type of vents	structural top hung window (glass from 27-40 mm ) structural POW (glass from 27-34 mm)	flush roof vent: top hung, bottom hung max. roof inclination: 5 to 80° glass up to 53 mm handle, spindle and automated opening	turn turn-tilt bottom-hung window
Roof application	yes	yes	no



## PERFORMANCES

ENERGY						
	Thermal insulation (1) EN 13947	Uf-value as from 0.8 W/m <sup>2</sup> K, depending on the profile combination				
COMFORT						
	Acoustic performance (2) EN ISO 140-3; EN ISO 717-1	Rw (C; Ctr) = 34 (-1; -4) dB / 55 (-2; -7 ) dB, depending on glazing or panel type				
	Air tightness (3) EN 12153, EN 12152	A4				
	Water tightness (4) EN 12155, EN 12154	R4 150	R5 300	R6 450	R7 600	RE 900
	Wind load resistance, max. test pressure (5) EN 12179, EN 13116	2000 Pa				
	Resistance against impact EN 14019	I5 / E5				

- (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.

