

3. Hidden vent turn and tilt window - HV-TUTI:

A special type of Inward Opening Window, also known as the hidden vent, is a structural silicone glazing solution which can be applied in a standard curtain wall façade or in a structurally clamped façade. It's main advantage is that the exterior doesn't differ from a fixed glazing panel in the façade. Therefore it doesn't affect the façade geometry. From the inside, this system uses a half mullion, resulting in a minimal visible width. Water tightness is assured by the use of a central gasket.

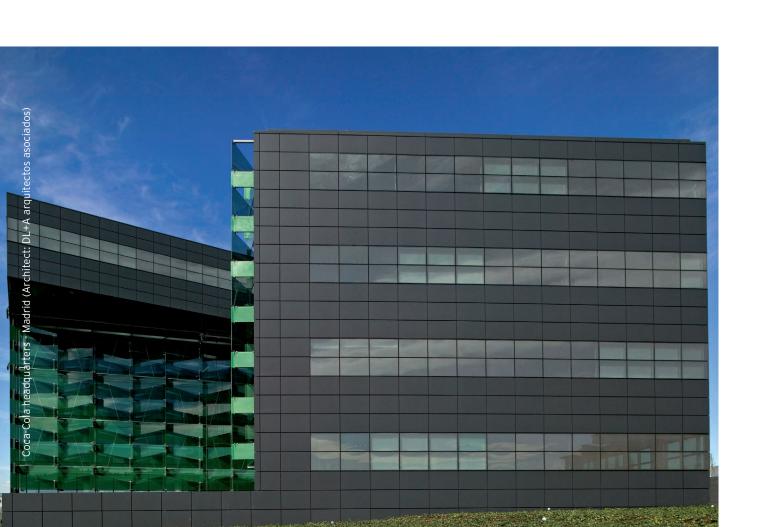
4. Flush Roof Vent - FRV:

The Flush Roof Vent has been developed to perfectly blend into the buildings' outer shell without causing any disruption to the surface, with inclination angles of 5° up to 80°. With this opening type, the architectural creativity is limitless.

The superior High Insulation variant assures an increased insulation by using additional gaskets and longer insulation strips. The possibility to integrate 52 mm glass in this HI version further enhances thermal efficiency. A motor-operated version is especially convenient within building management systems or in roof windows in hard-to-reach places.

5. Integration of Reynaers window and door systems

Several aesthetical connection profiles allow a concealed integration of other Reynaers window and door systems.







TOGETHER FOR BETTER

DED	FORMANCES						
PLK	ENERGY					_	
	Thermal insulation ⁽¹⁾ EN 12631:2012	Uf value down to 0,56 W/m²K, depending on the profile combination					
	COMFORT						
	Acoustic performance (2) EN ISO 10140-2; EN ISO 717-1	RW (C;Ctr) = 33 (-1; -4) dB / 60 (-2; -6) dB, depending on glazing or panel type					
	Air tightness ⁽³⁾ EN 12153, EN 12152	A1 (150 Pa)	A2 (300 Pa)	A3 (450 Pa)	A4 (600 Pa)	AE 1200 (1200 Pa)	AE 1950 (1950 Pa)
	Water tightness ⁽⁴⁾ EN 12155, EN 12154	R4 (150 Pa)	R5 (300 Pa)	R6 (450 Pa)	R7 (600 Pa)	RE 1200 (1200 Pa)	RE 1950 (1950 Pa)
P	Wind load resistance, max. test pressure (5) EN 12179, EN 13116	2000 Pa			2400Pa		
	Resistance against impact EN 12600, EN 14019	13 / E5			15 / E5		
	SAFETY						
	Fire Resistance ⁽⁶⁾ EN 1364-3, EN 13501-2	EI 15	EW 30	EI 30	E 60	EW 60	EI 60
	Burglar Resistance (7) EN 1627 - EN 1630	WK1 / RC1		WK2 / RC2		WK3 / RC3	

This table shows classes and values of performances, which can be achieved for specific configurations and opening types.

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

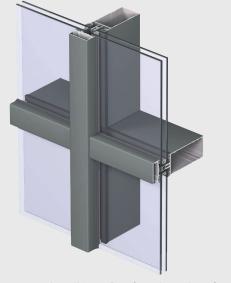
-) The sound reduction index (Rw) measures the capacity of the sound reduction performance of the curtain wall.
) The air tightness test measures the volume of air that would pass through a curtain wall at a certain air pressure.
- (4) The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the curtain wall.
 (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.
- 6) The fire resistance is defined by exposing the curtain wall to direct fire in order to determine the stability, thermal insulation and radiation insulation over a certain amount of time. (7) The burglar resistance is tested by static and dynamic loads, as well as by stimulated attempts to break in using specific tools. This variant requires specific burglar resistance accessories and processing techniques.

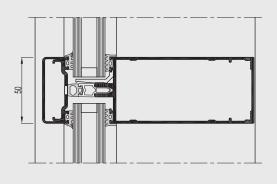


CW 50

Unlimited creative freedom and maximum entrance of light







Concept Wall® 50 is a façade and roof system that offers unlimited design freedom and allows maximum transparency. As such, CW 50 meets all requirements of contemporary architecture. Innovative solutions contribute towards the tendency of big, heavy and thick glass panes. CW 50 supports up to 150, 310 and 700 kg in various glass support configurations. Even more glass weight can be offered in bespoke solu-

The system is available in several design and glazing variants, like steel beam look, standard pressure plates, structurally glazed and structurally clamped solutions. Specified levels of fire-resistance, burglar proof classes and thermal insulation, down to Uf = 0.56W/ m²K, are provided by different technical

In addition to that, dedicated opening types can also be seamlessly integrated; a parallel opening window, a top hung window, a hidden vent turn and tilt window, but also a flush roof vent for integration in roof applications of CW 50.

The CW 50 stands for an extensive range of profiles, gaskets, accessories and tools. It is specially developed for easy fabrication and installation.













The extensive range of CW 50 profiles meets all requirements of contemporary architecture. With regard to the thermal performance, the system offers solutions in different levels, allowing the use of triple glazing and making the system even applicable for passive house or low energy buildings.

In addition to that, dedicated opening types can also be seamlessly integrated:

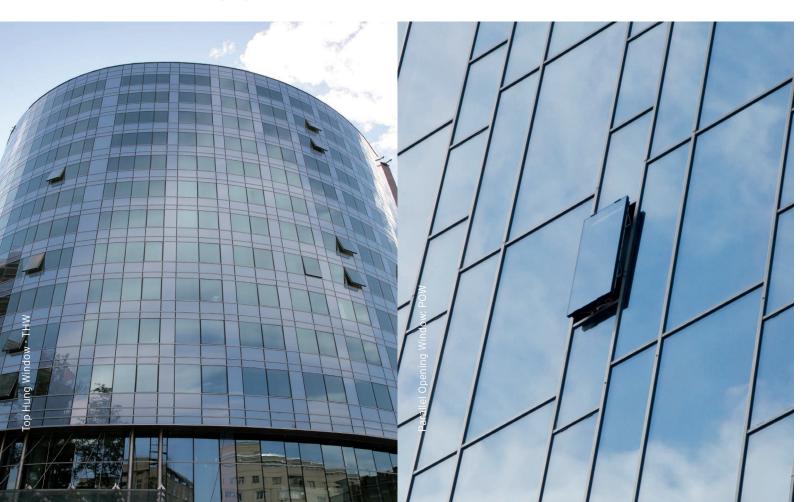
Description opening types*:

1. Top Hung Window - THW:

The Top Hung Window allows integrating opening elements with large opening spans, which can be operated manually or automatically. The design choice between the solution with glazing bead or structural silicone glazing (SSG) characterises the total appearance of the façade. This THW can be integrated in the overall strategy of the building's Smoke & Heat Exhaust Ventilation Systems (SHEVS).

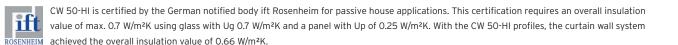
2. Parallel Opening Window - POW:

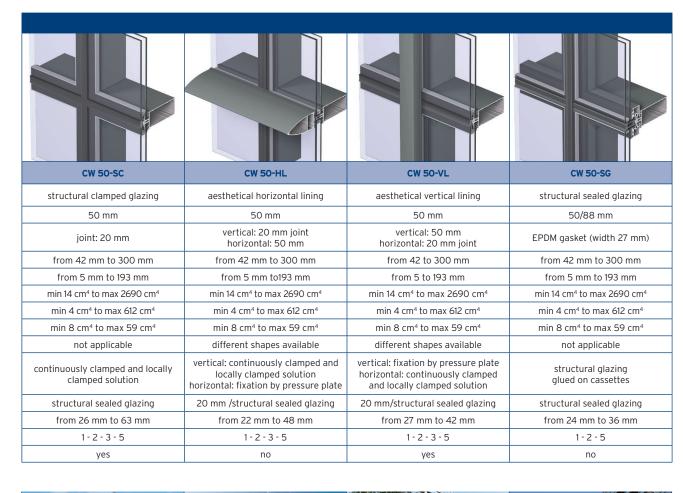
The opening concept, Parallel Opening Window, allows an ultimate airflow for small or tall windows. This results in a better natural ventilation, improving the indoor air quality, thermal comfort and healthy indoor climate for building users. Aesthetically, this parallel way of opening gives a uniform impression: the reflection of the building remains the same for opened or closed vents. An additional advantage of this opening type is that it realises ventilation without creating unwanted access to the building (e.g. night ventilation). Furthermore, the POW can be used for big opening elements, operated both manually or automatically, and is suited to be integrated in Smoke & Heat Exhaust Ventilation Systems. The glazing of the window can be done with glazing beads or with structural silicone glazing (SSG).





TECHNICAL CHARACTE			
Style variants	CW 50-SL	CW 50 ALU ON STEEL	CW 50-TT
	slender appearance	designed for steel structure	rationalized system
Interior visible width	15/50 mm	50 mm	50 mm
Exterior visible width	50 mm	50 mm	50 mm
Depth mullions	from 126 mm to 168 mm	51 mm	-
Depth transoms	from 88 mm to 173 mm	from 5 mm to 58 mm	from 84 mm to 231 mm
Inertia mullions (lx: wind load)	min 160 cm ⁴ to max 381 cm ⁴	not applicable	-
Inertia transoms (Ix: wind load)	min 73 cm ⁴ to max 436 cm ⁴	min 4 cm ⁴ to max 16 cm ⁴	min 74 cm⁴ to max 937 cm⁴
Inertia transoms (ly: glass load)	min 9 cm ⁴ to max 24 cm ⁴	min 8 cm ⁴ to max 13 cm ⁴	min 23 cm⁴ to max 68 cm⁴
Exterior face caps	different shapes available	different shapes available	different shapes available
Glazing	fixing by pressure plates / clamped	fixing by pressure plates / clamped	fixing by pressure plates / clamped
Rebate height	20 mm	20 mm	20 mm
Glass thickness	from 6 to 61 mm	from 6 to 61 mm	from 6 mm to 61 mm
Opening types (see description)*	1-2-3-4-5	1-2-3-4-5	1 - 2 - 5
Roof application	yes	yes	no







Overview exterior looks

