

CW 50 & CW 60 Curtain Wall

Source: Reynaers Aluminium Architects: Dooi studio, Daniel Cioeazanu Photo: Cosmin Dragomir

Large glass walls, generally referred to as a glazed curtain wall in the building industry, is a glass façade often associated with commercial buildings and high-rise residential apartments. On a residential scale, glazed walls can have some very striking applications, particularly in creating a double-height atrium or stairwell for a panoramic view.

Reynaers at Home offers two curtain wall systems, CW 50 and CW 60, that can effortlessly blur the divide between home and garden, allowing your living spaces to be filled with panoramic views and natural light.



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CW 50

Maximum entrance of light

The Concept Wall 50 is a façade and roof system that offers unlimited design freedom and allows maximum transparency for even the highest concept designs. CW 50 meets all of the requirements of contemporary architecture.

With the ability to support up to 700 kg of glass, depending on the glass support configuration, CW 50 allows the opportunity to have extremely large glass walls that can replace your existing solid walls to make an otherwise ordinary room into something quite spectacular.

Unlimited design possibilities

The system is available in several design and glazing variants, allowing double or triple glazing.

Dedicated windows and roof windows can be seamlessly integrated into the glazed wall design.

Top hung and bottom hung opening elements can be easily integrated with large opening spans, which can be operated manually or automatically. See our windows and doors range for the full selection.

Performances

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 including CWCT requirements	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 including CWCT requirements	R4 (150 Pa)	R5 (300 Pa)	R6 (450 Pa)	R7 (600 Pa)	RE 1200 (1200 Pa) RE 1950 (1950 Pa)
	Wind load resistance, max. test pressure ⁽⁵⁾ EN 12179, EN 13116 including CWCT requirements	2000 Pa			2400 Pa	
	Resistance against impact EN 12600, EN 14019	I3 / E5			I5 / 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	RC1		RC2		RC3

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

⁽¹⁾ CWCT to be read in conjunction with independent report number DPP/R11995 dated 17th July 2015

⁽²⁾ The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the curtain wall.

⁽³⁾ The sound reduction index (Rw) measures the capacity of the sound reduction performance of the curtain wall.

⁽⁴⁾ The air-tightness test measures the volume of air that would pass through a curtain wall at a certain air pressure.

⁽⁵⁾ The water-tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the curtain wall.

⁽⁶⁾ 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.

⁽⁷⁾ 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.

⁽⁸⁾ 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 60

Robust structure

CW 60 is an excellent thermally insulated glazed wall system that can fit different design configurations such as sloped, vertical or curved walls. The extra width of the CW 60 system allows for more movement between the glass and the frame, making it suitable for even the most technically challenging homes.

The Concept Wall 60 range is ideal for installing heavy weight glass panels to create a dramatic effect. Imagine seamlessly linking two buildings with a large contemporary glass walk-through that blends in with the surrounding nature yet acts as a stylistic counterpoint.

Versatile design

With the ability to hold up to 62 mm of glass thickness, the CW 60 system can integrate triple glazing helping to keep the warmth inside and the British weather outside. You can be certain that the CW 60 glazed wall system will flood your home with panoramic, floor to ceiling views for the ultimate grand design statement without compromising performance.

In addition, CW 60 can facilitate the integration of all types of windows including attic windows. See our windows and doors range for the full selection.

Performances

Energy						
	Thermal insulation ⁽¹⁾ EN 13947	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/47 (-2;-5) dB, depending on the glazing type				
	Air-tightness, max. test pressure ⁽³⁾ EN 12153; EN 12152 including CWCT requirements	A4 (600 Pa)				
	Water-tightness ⁽⁴⁾ EN 12155; EN 12154 including CWCT requirements	R4 (150 Pa)	R5 (300 Pa)	R6 (450 Pa)	R7 (600 Pa)	RE (1200 Pa)
	Wind load resistance, max. test pressure ⁽⁵⁾ EN 12179; EN 13116 including CWCT requirements	2400 Pa				
	Resistance against impact EN 14019	E5 / I5				

This table shows possible classes and values of performances, which can be achieved for specific configurations and opening types: contact Reynaers for further information.

The values indicated in red are the ones relevant to this system.

*CWCT to be read in conjunction with independent report number DPP/R11995 dated 17th July 2015

(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.

Style variants

Reynaers CW 50 and CW 60 curtain walls are available in a choice of styles and variants.

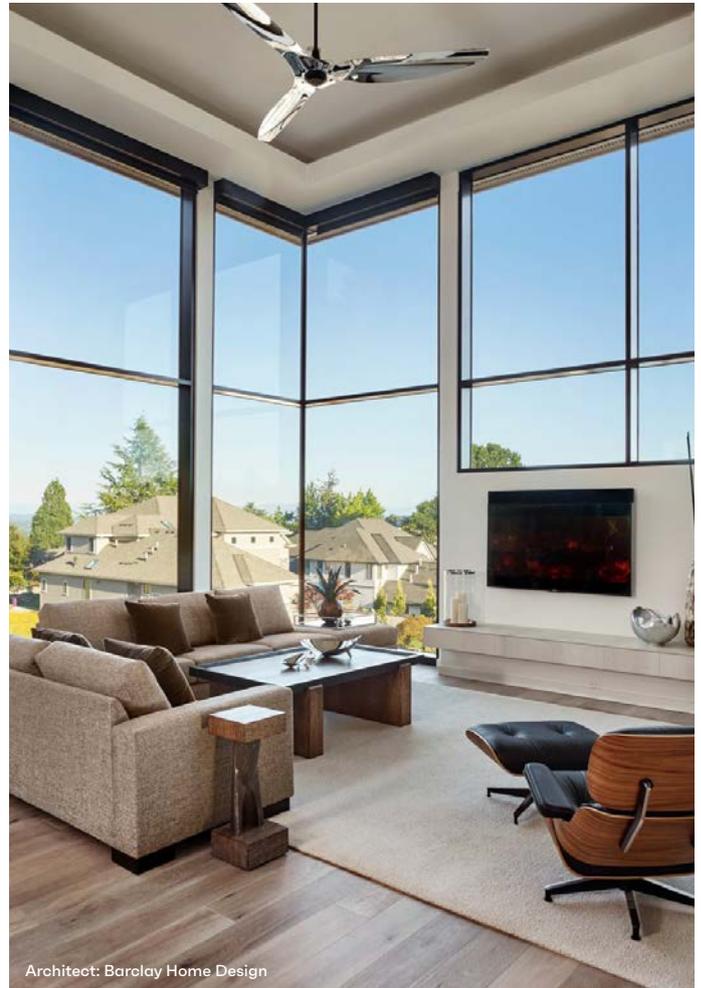
You can have our most traditional Standard Capped curtain wall (CW 50-FU and CW 60-FU), Structurally Clamped, that has a cap-less design (CW 50-SC and CW 60-SC) and Hidden Vent where the opening vent is not visibly different from a fixed light, giving a slim line appearance from the outside (CW 50-HV and CW 60-HV).

There is even a variant for incorporating a flush roof vent (CW 50-FRV) into a sloping roof, for the most stylish of homes.

Choices

We haven't forgotten the finishing touches either. As with all of our aluminium window and door systems, our CW 50 and CW 60 curtain walls are available in literally hundreds of colours in matt or gloss finishes: select one of the latest textured metallic finishes or even opt for one of our range of wood-grain effects.

You can even have a different colour inside and out.







Reynaers at Home

Our partners

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Why Reynaers?

For over 50 years, Reynaers Aluminium Ltd has been designing cutting-edge glazing solutions for some of the most iconic buildings in the world.

Engineered without compromise, our ranges of aluminium windows, doors and curtain wall systems have been specified time and again by the world's leading architects and construction companies.



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