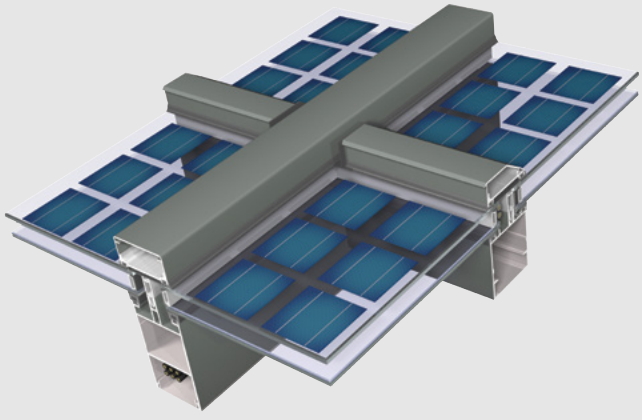
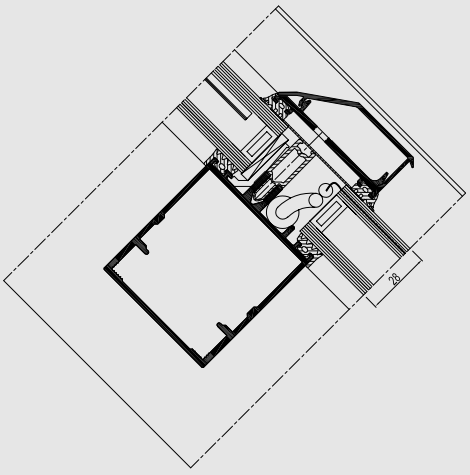
CW 60-Solar

Building integrated photovoltaic curtain wall and roof system

REYNAERS
aluminium





CW 60 Solar is a building integrated photovoltaic curtain wall and roof system that offers an aesthetic pleasing as well as high tech ‘green energy’ solution. The CW 60 Solar system is fully compatible with the CW 50 and CW 60 systems to provide a total curtain wall solution.

The dedicated designed profiles improve the installation and the maintenance of the photovoltaic components and cabling. The new face caps are designed with minimal height to maximise the sun-shine absorption and minimise the shading on the photovoltaic panels.

CW 60-SOLAR

TECHNICAL CHARACTERISTICS

	CW 60-SOLAR	CW 60-SOLAR RA
Style variants	Building integrated Photovoltaic curtain wall	Building integrated Photovoltaic roof
Integration of PV panels	Semi transparent or normal, crystalline or Amorphous, single or double glassed, side PV panel box or back PV panel box, Glass edged	Semi transparent or normal, crystalline or Amorphous, single or double glassed, side PV panel box or back PV panel box, Glass edged
Fixation of PV panels	Fixing by pressure plates	Fixing by pressure plates
PV panel thickness	6 mm to 48 mm	6 mm to 48 mm
Inside visible width	60 mm	60 mm
Outside visible width	60 mm	60 mm
Outer covering caps	Reduced height for minimal shadow	Special design for ultimate drainage
Depth mullion	119 mm	119 mm
Depth transom	67.2 mm & 109.2 mm	67.2 mm & 109.2 mm
Inertia mullions (Ix: wind load)	102 cm^4	102 cm^4
Inertia transoms (Ix: wind load)	45.8 cm^4 & 157.cm^4	45.8 cm^4 & 157.cm^4
Inertia transoms (Iy: glass load)	33.1 cm^4 & 54.6 cm^4	33.1 cm^4 & 54.6 cm^4
Rebate height on topside of glass	30 mm	30 mm
Rebate height on bottom side of glass	20 mm	20 mm
Types of vent	All Reynaers systems, top hung window, POW window	Flush roof window

PERFORMANCES

	ENERGY					
	Energy production	Dependent towards situation, please contact your Reynaers Aluminium fabricator				
	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 / 48 (-2;-8) dB, depending on glazing type				
	Air tightness, max. test pressure (3) EN 12153, EN 12152	A4 (600 Pa)				
	Water tightness (4) EN 12155, EN 12154	1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	RE (1200 Pa)
	Wind load resistance, max. test pressure (5) EN 12179, EN 13116	2400 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.

MIX
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