



CS 68, CS68-HI

CS68 is a thermally-broken, multi-chambered system for windows and doors that offers excellent levels of security, weather resistance and thermal insulation.

The CS68 system offers a comprehensive range of inward- and outward-opening window and door designs that are available in a range of four different styles, making it ideal for both traditional and contemporary building designs. Combined with a huge choice of colours and finishes, and the ability to specify a different colour inside and out, the CS68 is a truly versatile system that can be specified to complement almost any home.

Altitude Aluminium offer a wide range of Aluminium products for todays Grand Design Projects including:

Aluminium Windows • Sliding Doors • Folding/Bifolding Doors • Curtain Walling
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Style options

The CS68 window and door system is available in four different style options. Whether you prefer the more traditional Renaissance style or the very clean and contemporary lines of the hidden vent style, the CS68 has the aesthetics to complement almost any home.



Functional



Renaissance



Softline



Hidden Vent

Performance







The CS68 not only looks stylish but is also a great all-round performer in terms of thermal insulation, weather resistance and security:

- Whole window U-values as low as 1.22 W/m²K
- Up to 600Pa air tightness
- Up to 1200Pa water tightness
- Up to 2000Pa wind load resistance
- WK2 and even WK3 security with UK Secured By Design Security, PAS 24:2012 or BS7950 dependent on window type



CS 68		
	Windows	Doors

Technical Characteristics				
Variants	FUNCTIONAL	RENAISSANCE	SOFTLINE	HIDDEN VENT
Min. visible inward opening window				
Frame	51 mm	51 mm	51 mm	76 mm
Vent	33 mm	33 mm	33 mm	not visible
Min. visible width outward opening window				
Frame	17.5 mm	-	-	-
Vent	76 mm	-	-	-
Min. visible width inward opening flush door				
Frame	68 mm	-	-	-
Vent	76 mm	-	-	-
Min. visible width outward opening flush door				
Frame	42 mm	-	-	-
Vent	102 mm	-	-	-
Min. visible width T-profile	76 mm	76 mm	76 mm	126 mm
Overall system depth window				
Frame	59 mm	68 mm	68 mm	59 mm
Vent	68 mm	77 mm	77 mm	63.5 mm
Rebate height	25 mm	25 mm	25 mm	18.5 mm
Glass thickness	up to 44 mm	up to 44 mm	up to 44 mm	up to 40 mm
Glazing method	dry glazing with EPDM or neutral silicones			
Thermal insulation	23 mm omega-shaped fibreglass reinforced polyamide strips			

Performances															
	Energy														
	Thermal Insulation ⁽¹⁾ EN 10077-2				Uf-value down to 1.8 W/m²K depending on the frame/vent combination and the glass thickness.										
	Comfort														
	Acoustic performance ⁽²⁾ EN ISO 140-3; EN ISO 717-1				Rw (C; Ctr) = 37 (-1; -4) dB / 44 (-2; -5) dB, depending on glazing type										
	Air tightness, max. test pressure ⁽³⁾ EN 1026; EN 12207				1 (150 Pa)		2 (300 Pa)		3 (600 Pa)		4 (600 Pa)				
	Water tightness ⁽⁴⁾ EN 1027; EN 12208				1A (0 Pa)	2A (50 Pa)	3A (100 Pa)	4A (150 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 Pa)	9A (600 Pa)	E (1200 Pa)	
	Wind load resistance, max. test pressure ⁽⁵⁾ EN 12211; EN 12210				1 (400 Pa)		2 (800 Pa)		3 (1200 Pa)		4 (1600 Pa)		5 (2000 Pa)		Exxx (≥2000 Pa)
	Wind load resistance to frame deflection ⁽⁵⁾ EN 12211; EN 12210				A (<400 Pa)			B ($<1/200$ Pa)			C ($<1/300$ Pa)				
	Safety														
	Burglar resistance ⁽⁶⁾ ENV 1627 - ENV 1630, UK SBD PASS				WK 1			WK 2 (windows & Doors)			WK 3 (flush doors)				

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 test 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.
Note: The weather performance data above is for windows and not for doors (contact Reynaers for further information).
- (6) The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools.
- (7) Please refer to Reynaers CE passport for all technical data including size limitations.