







CS 77 is available in a variety of aesthetic styles to match the current trends whilst offering all types of both inward and outward opening windows and doors. An additional asset is the possibility to combine this system with Ventalis®.

The system's performance regarding acoustics, water- and air tightness, but also for specific applications like Bullet - and Fire Resistance, meets the most severe European standards. Moreover, CS 77 is available in different burglar resistance levels (class 2 & 3) making it an extremely secure system.







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TECHNICAL CHARACTERISTICS										
Style variants		FUNCTIONAL	RENAISSANCE	HIDDEN VENT						
Min. visible width	Frame	51 mm	51 mm	76 mm						
inward opening window	Vent	33 mm	33 mm	not visible						
Min. visible width	Frame	17.5 mm	-	-						
outward opening window	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	126 mm						
	Frame	68 mm	77 mm	68 mm						
Overall system depth window	Vent	77 mm	86 mm	72.5 mm						
Rebate height		25 mm	25 mm	18.5 mm						
Glass thickness		up to 53 mm	up to 53 mm	up to 48 mm						
Glazing method		dry glazing with EPDM or neutral silicones								
Thermal insulation		32 mm omega and/or hollow chamber -shaped fibreglass reinforced polyamide strips								
High Insulation variant (HI)		Available	Available	Not Available						
High Insulation Plus variant (HI+)		Available	Not Available	Not Available						

PER	FORMANCES												
	ENERGY												
	Thermal insulation (1) EN ISO 10077-2	Uf-value down to 1.2 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) = 36 (-1; -4) dB / 42 (-2; -4) 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)			1)
	Water tightness <sup>(4)</sup> EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	(100		4 <b>A</b> 150 Pa)	5A (200 Pa)	6A (250 Pa)	7 A (300 Pa)	8A (450 Pa)	-		E900 (900 Pa)
	Wind load resistance, max. test pressure (5) EN 12211; EN 12210	1 (400 Pa)			2 0 Pa)	(1.	3 200 Pa)	4 (1600 Pa)		5 (2000 Pa)		Exxx (> 2000 Pa)	
	Wind load resistance to frame deflection <sup>(5)</sup> EN 12211; EN 12210	A (≤1/150)				B (\$1/200)			C (≤1/300)				
	SAFETY												
<b>%</b>	Burglar resistance <sup>(6)</sup> ENV 1627 - ENV 1630	WK 1				WK 2			WK 3				

This table shows possible classes and values of performances. The values indicated in red are the ones relevant to this system.

- The Uf-value measures the heat flow. The lower the Uf-value, the better the thermal insulation of the frame.

- The sound reduction index (Rw) measures the capat row.
  The sound reduction index (Rw) measures the capacity of the sound reduction performance of the frame.
  The air tightness test measures the volume of air that would pass through a closed window at a certain air pressure.
  The water tightness testing involves applying a uniform water spray at increasing air pressure until water penetrates the window.
  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.
  The burglar resistance is tested by statistical and dynamic loads, as well as by simulated attempts to break in using specified tools.







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