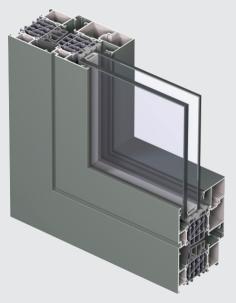
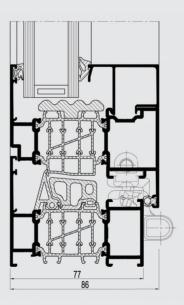


CS 86-HI Highly energy efficient







CS 86-HI is a multi-chamber system for windows and doors that combines aesthetic design, optimal stability and high thermal comfort. Due to the insulating skeleton strips, CS 86-HI achieves Uf-values down to 1.2 W/m<sup>2</sup>K, making this a highly energy efficient system. Flexible expansion strips in the door vents ensure stability in all conditions.

The system provides inside opening windows and inside & outside opening flush doors (up to 3 metres). Furthermore, CS 86-HI doors offer different types of floor connections to meet acoustic, thermal and water requirements.



TECHNICAL CHARACTERISTICS										
Style variants		FUNCTIONAL	HIDDEN VENT							
Min. visible width inward opening window	Frame	51 mm	70 mm							
	Vent	35 mm	not visible							
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	95 mm							
Overall system depth window	Frame	77 mm	77 mm							
	Vent	86 mm	79 mm							
Rebate height		25 mm	17 mm							
Glass thickness		up to 62 mm	up to 46 mm							
Glazing method		dry glazing with EPD	with EPDM or neutral silicones							
Thermal insulation		41 mm fibreglass reinforced polyamide strips in skeleton structure or hollow chamber shape 32 mm (flexible) expansion strips								

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PERFORMANCES													
	ENERGY												
$\bigcirc$	Thermal insulation (1) EN ISO 10077-2	Uf-value down to 1.20 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 / 44 (0; -2) dB, depending on glazing type											
	Air tightness, max. test pressure (3) EN 1026; EN 12207	1 (150 Pa)			2 (300 Pa	a)	3 (600 Pa)			4 (600 Pa)		a)	
	Water tightness (4) EN 1027; EN 12208	1A (0 Pa)	2A (50 Pa)	3 (100		4A 50 Pa)	5A (200 Pa)	6A (250 Pa)	7A (300 Pa)	8A (450 P		9 <b>A</b> 0 Pa)	E900 (900 Pa)
	Wind load resistance, max. test pressure (5) EN 12211; EN 12210	1 (400 Pa)			2 3 00 Pa) (1200 Pa		Ŭ,	4 (1600 Pa)		5 (2000 Pa)		Exxx (> 2000 Pa)	
	Wind load resistance to frame deflection (5) EN 12211; EN 12210	A (≤1/150)				B (≤1/200)			C (≤ 1/300)				
	SAFETY												
	Burglar resistance (6) NEN 5096 - ENV 1627	WK 1				WK 2 (windows & doors)			WK 3				

- 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 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.

