



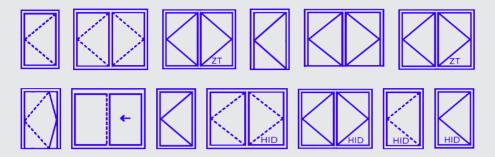


Concept System® 77 is a high-insulation window and door system that meets elevated requirements regarding thermal insulation, stability, and security. CS 77 is available in a variety of aesthetic styles to match the current trends while offering all types of inward and outward opening windows and doors. An additional asset is the possibility to combine this system with Ventalis®. The system's performance regarding acoustics, water-, and airtightness meets the highest of standards.



CS 77 FUNCTIONAL DOORS

The standard flush door range is available in all inward and outward opening types with a wide range of door locks to meet every kind of locking demand. Specially designed insulation strips are used to ensure the tightness of the door. Moreover, CS 77 flush doors are offered with different threshold solutions to perfectly match all comfort and aesthetic requirements.



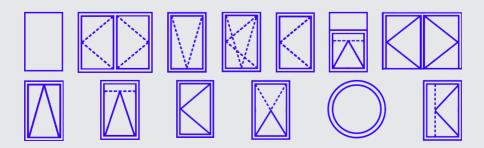
CS 77 PANEL DOORS

The CS 77 panel doors offer panels that are flush with the frame on the interior as well as the exterior side of the door. There is the possibility to include spy windows and a range of ergonomic solutions such as finger scanners, e-keys, and motorized locks. With the excellent thermal and weather performances, these specifications make the panel doors the ideal solution for entrance doors.



CS 77 FUNCTIONAL AND HIDDEN VENT WINDOWS

The CS 77 window system includes the most generous range of solutions for all types of inward and outward opening windows. Combination possibilities with CS 77 doors, CP 130 sliding systems, and Ventalis® ventilation units, makes CS 77 extremely suitable for all types of building concepts, even with the highest safety requirements. The Functional design offers a clean and minimalistic look that is suitable for all architectural styles. The Hidden Vent style is achieved by the vents being covered by the outer frames and transoms, which allows for a concealed install of the window elements behind the window reveal.





Hurricane Impact Windows

To help protect your building from debris and strong winds in hurricane-prone regions, CS 77 windows meet Miami Dade NOA and Florida Building Code with a DP65, HVHZ, and Missile Type D Zone 4 rating. The fixed (18-1226.01), outswing casement (18-1226.02), and tilt-and-turn inswing casement (20-0410.06) windows all meet the Miami Dade NOA. Both the fixed (FL28671-R1) and casement (FL28672-R1) windows meet the Florida Building Code.



TECHNICAL CHARACTERISTICS										
Style variants		FUNCTIONAL	HIDDEN VENT							
Min visible width inward anguing window	Frame	2 3/16"	3"							
Min. visible width inward opening window	Vent	1 5/16"	not visible							
	Frame	11/16"	-							
Min. visible width outward opening window	Vent	3"	-							
Adia visible videb issued again flock de-	Frame	2 11/16"	-							
Min. visible width inward opening flush door	Vent	3"	-							
Min visitely width automate a seine florib	Frame	1 5/8"	-							
Min. visible width outward opening flush door	Vent	4"	-							
Min. visible width T-profile		3"	4 15/16							
Out and I make an ideath window	Frame	2 11/16"	2 11/16"							
Overall system depth window	Vent	3 1/16"	2 7/8"							
Rebate height		1"	3/4"							
Glass thickness		up to 2 1/16"	up to 1 7/8"							
Glazing method		dry glazing with EPDM or neutral silicones								
Thermal insulation		11/4" omega and/or hollow chamber -shaped fibreglass reinforced polyamide strips								
High Insulation variant (HI)		Available	Not Available							
High Insulation Plus variant (HI+)		Available	Not Available							

PERFORMANCE SPECIFICATIONS (1)		FIXED		OPERABLE		SWING DOOR		TERRACE DOOR			
	ENERGY										
	Thermal Insulation ⁽²⁾ (Btu/hr·ft²·ºF) per NFRC 102			Double	Triple	Double	Triple	Double	Triple	Double	Triple
		Fixed	Uw	0.24	0.17						
		Ë	SHGC	0.20	0.15						
		Open in	Uw			0.26	0.20	0.3	0.25	0.3	0.24
		Ope	SHGC			0.16	0.12	0.16	0.12	0.16	0.12
		n out	Uw			0.34	0.27	0.35	0.29	0.31	0.25
		Open	SHGC			0.17	0.13	0.16	0.12	0.16	0.12
	COMFORT										
	Acoustic performance ⁽³⁾ ASTM E90-09/133		STC	43		42		39		40	
		32	ОІТС	3	4	35		36		36	
	Air tightness, max. test pressure ⁽⁴⁾ (cfm/ft²)		0.04		0.04		0.02		0.27		
	Water tightness ⁽⁵⁾ (psf)			12.11		15		2.92		9.4	
P	AAMA Rating AAMA/WDMA/CSA 101/I.S.2/A440, NAFS		AW PG120		CW PG 100 DAW AW PG 100 C		R PG15		CW PG50		
HVHZ	TAS 202/203-94 TAS 201			DP +/-65 psf Large Missile Impact					-		
(HVHZ)	AAMA/WDMÁ/CSA 101/I.S.2/A440, NAFS TAS 202/203-94			AW PG120 AW F DP +/-65 psf Large Missile Impact		AW PC -65 psf sile Impact	5 100 C	R P	G15	CW F	PG50

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

(1) All results based on gateway sizes; vary depending on glass/profile combinations. | Above Uw & SHGC values do not necessarily work in combination.

(2) Uw is the measure of heat transfer through the fenestration product with glass. The lower the Uw, the better the thermal insulation of the element.

(3) The sound reduction index measures the capacity of the sound reduction performance of the frame and glass.

REY

The air tightness test measures the volume of air that would pass through a closed window at a certain air

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pressure.

Water tightness testing applies a specified air pressure differential while simultaneously spraying water on to the ext. face of the assembly at the rate of 5 gal/hr/ft 2 .













