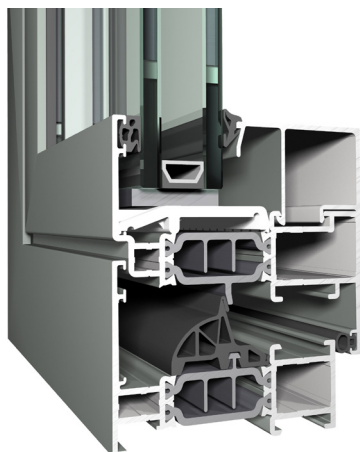


# ConceptSystem 77

## Windows & Doors



### Optimised safety and comfort

ConceptSystem 77 is a versatile window system that complements almost any building project thanks to its many design options. Compatible with different burglar resistance levels, the aluminium windows offers both a safe and stylish solution.







- Broad design and functional possibilities
- Available in extreme safety variants including bulletproof
- Well balanced price-quality-feature mix



FUNCTIONAL

HIDDEN VENT

PROPERTIES			
Min. visible width inward opening window	Frame	51 mm	76 mm
	Vent	33 mm	not visible
Min. visible width inward opening flush door	Frame	68 mm	-
	Vent	76 mm	-
Overall system depth window	Frame	68 mm	68 mm
	Vent	77 mm	72.5 mm
Rebate height		25 mm	18.5 mm
Glass thickness		up to 53 mm	up to 48 mm

PERFORMANCE		
 Thermal insulation (Uf)		Down to 1.2 W/m <sup>2</sup> K
 Acoustic performance (Rw (C; Ctr))		36 (-1; -4) dB / 42 (-2; -4) dB
 Air tightness		Up to 600 Pa (class 4)
 Wind load resistance		Up to 2000 Pa (class 5)
 Water tightness		Up to 900 Pa (class E900)
 Burglar resistance		Up to RC 3 (EN 1627 & NEN 5096) + PAS 24

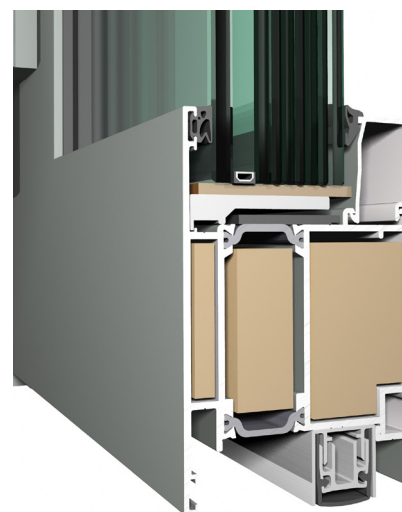
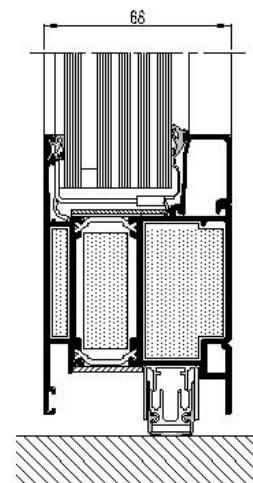
# ConceptSystem 77-FP

## Windows & Doors



The ConceptSystem 77-FP variant helps to provide fire safety in several classes and configurations to ensure an extended and safe escape route during a fire emergency. The range is available as outward opening single and double doors, panic doors, combined fixed window elements as well as glazed partition walls.

- European certified fire rated solution
- Wide range of architectural solutions similar to standard ConceptSystem 77
- Combinations possible with smoke control, burglar resistance and panic functionality

CS 77-FP60 door



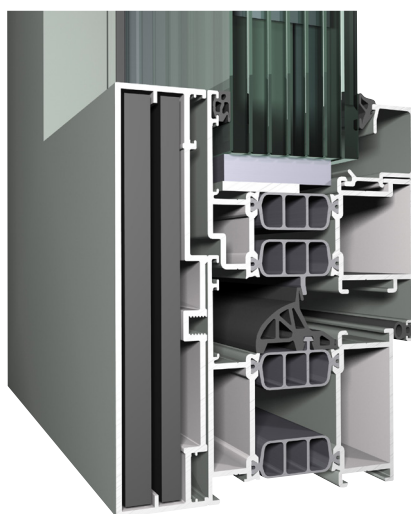
PROPERTIES	FIREPROOF 30	FIREPROOF 60
Rebate height	25 mm	25 mm
Glass thickness	13 - 52 mm	13 - 52 mm
Glazing method	dry glazing with EPDM or neutral silicone	

PERFORMANCE	FIREPROOF 30	FIREPROOF 60
European testing standards	EN 1364-1 EN 1634-1	EN 1364-1 EN 1634-1
Classification standard	EN 13501-2	EN 13501-2
 Fire resistance classification	EW30, EI30, EI <sub>1</sub> 30, EI <sub>2</sub> 30	EW60, EI60, EI <sub>1</sub> 60, EI <sub>2</sub> 60
 Burglar resistance	Up to RC 2 (EN 1627)	

Performances and properties depend on size, profile combinations, hardware and infill choices.

# ConceptSystem 77-BP

## Windows & Doors










ConceptSystem 77-BP is an extension to the ConceptSystem 77 which enables the realisation of bulletproof windows and doors according to the most severe European standards. Optionally, the (fixed) windows and doors can be offered with a burglar resistance up to RC 3.

- FB 4, FB 6, FSG & Kalashnikov bullet resistance
- Shares many components with CS 77 for easy production
- Well balanced price-quality-feature mix

### PROPERTIES

		BULLETPROOF
Min. visible width inward opening window	Frame	128 mm
	Vent	-
Min. visible width inward opening flush door	Frame	77 mm
	Vent	77 mm
Overall system depth window	Frame	97 mm
	Vent	77 mm
Rebate height		25 mm
Glass thickness		25 - 52 mm

### PERFORMANCE

 Thermal insulation (Uf)	Down to 2.4 W/m²K
 Acoustic performance (Rw (C; Ctr))	42 (-2; -4) dB
 Air tightness	Up to 600 Pa (class 4)
 Wind load resistance	Up to 2000 Pa (class 5)
 Water tightness	Up to 900 Pa (class E900)
 Bullet resistance	FB 4, FB 6, FSG (EN 1522) & Kalashnikov
 Burglar resistance	Up to RC 3 (EN 1627)