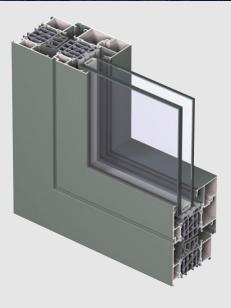
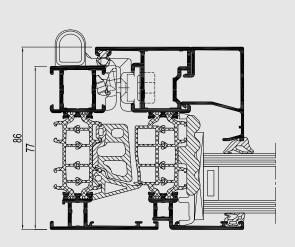


CS 86-HI

Highly energy efficient







Concept System® 86-HI is a highly insulated system for windows and doors, which meets the highest requirements concerning safety and stability. The system's insulation concept not only ensures the extreme stability and elevated water- and air tightness, but also makes it perfectly suitable for triple glass applications.

The overall insulation value (Uf) of the system's HI+ variant goes down to 1.0 W/m²K. The frame/vent section with 117 mm visible width has a Uf value of 1.4 W/m²K, making it one of the most energy-efficient systems available. CS 86 even achieved the Swiss Minergie® and Minergie-P® component label. With regard to safety, CS 86-HI can comply with burglar resistance classes 2 and 3, offering an ultimate level of security.













| 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 42 mm | | | | | | |
| Glazing method | | dry glazing with EPDM or neutral silicones | | | | | | | |
| Thermal insulation | | 41 mm fibreglass reinforced polymide strips in skeleton structure or omega/hollow chamber-shape | | | | | | | |
| High Insulation variant (HI) | | Available Available | | | | | | | |
| High Insulation Plus variant (HI+) | | Available | Not Available | | | | | | |

| PERFORMANCES | | | | | | | | | | | | | |
|--------------|---|---|---------------|------|------------|---------------------|---------------------------|----------------|----------------|--------------------|---------------|----------------------|------------------|
| | ENERGY | | | | | | | | | | | | |
| | Thermal insulation (1) EN ISO 10077-2 | Uf-value down to 1.0 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) | | 3 (600 Pa) | | | 4 (600 Pa) | | a) |
| | Water tightness (4) EN 1027; EN 12208 | 1A (0 Pa) | 2A (50 Pa) | (100 | | 4A 50 Pa) | 5 A (200 Pa) | 6A (250 Pa) | 7A (300 Pa) | 8 <i>i</i> (450 | | 9 A 00 Pa) | E900 (900 Pa) |
| | Wind load resistance, max. test pressure (5) EN 12211; EN 12210 | 1 (400 Pa) | | | 2 0 Pa) | (12 | 3 00 Pa) | 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 (s 1/300) | | | | |
| | SAFETY | | | | | | | | | | | | |
| | Burglar resistance (6) NEN 5096 - ENV 1627 | WK 1 | | | | | WK 2 (windows & doors) | | | WK 3 | | | |

- (2) (3) (4) (5)

