



SECURON[®] window

**Forced entry resistance in tilted window position
Natural ventilation without obstruction**



SECURON[®] aluminium window

Tested against forced entry and certified in the tilted position to level RC3 according to DIN EN 1627-1630 allowing for natural ventilation without obstruction and achieving level RC4 in the closed/locked position.

With a window in the tilted position the chance of a burglary is increased this is also valid for forced entry resistant windows which are tested and certified according to the European norm for forced entry resistance DIN EN 1627-1630.

Why: In the tilted window position the locking mechanism are in the open position and offer no protection against intruders. The window is only supported by the functional scissors, tilt-lock and corner bearing which are not designed to resist burglary attempts, e.g., with jigsaw and crowbar.

The SÄLZER security solution

First was to replace our standard locking mechanism with a purposely designed system manufactured from high grade materials. Secondly was the introduction of additional security stays to assist the top limiting stay. Combined these additional security stays and the security bolts bolting in the lower window area protect the wing in the tilted window position certainly against lever attempts.

The whole construction was successfully tested and certified by an accredited test institute according to the European norm against forced entry DIN EN 1627-1630 in resistance class RC3. In the locked state **SECURON[®]** was tested in the resistance class RC4. In this class, the test elements are additionally tested with an electric drill, axe and bolt cutters.

Benefits:

- Improve the quality of life: fresh air, natural light and security.
- **SECURON[®]** windows can be opened for night cooling or ventilation in tilt position during the day without sacrificing security – thereby saving costs for purchasing and using air condition and reductions in energy requirements.
- Peace of mind not having to worry whether the windows are really closed after going out of the house.



Trying to lever out with a crowbar.



The security stays were tested vigorously with the reciprocating saw.



SECURON[®] successfully tested with 100kg explosive; reflected pressure: 0.87 bar.

In class RC3 a variety of tools were used, like cold chisel, reciprocating saw, crowbar and screwdriver.



SECURON[®] is available as single or multiple window elements, with tilt and tilt-turn hardware. **SECURON[®]** is also available as double sash patio door, wing sizes up to 1.60 x 2.40 m.

Natural ventilation without obstruction

Invisible security

The philosophy of SÄLZER is to provide security solutions which do not compromise the design and creation possibilities envisaged by architects and engineers. The especially developed window of the **SECURON®** series does not differ externally from non-secured windows. The security locking points and security stays are an integral part of the system with no outward signs to differentiate.

Application:

- Can be integrated into aluminium mullion transom facades, e.g. as a ventilation window.
- Can be used as a fanlight of an entrance door for natural ventilation of the entrance area.
- Design as a patio door.
- Usable wherever high security need exists and good ventilation is important, such as in the bedroom and bathroom.
- In worth protecting properties.

Ease of use:

SECURON® offers the same ease of use as unsecured elements. The window moves easily and can be operated with just one hand. Optional: Automatic mode.



Various design variations.



Used as top light of a double aluminium door.



Office of a police station.



No visible difference to non-secured windows.

Characteristics

Security

Forced entry resistance¹⁾	according to DIN EN 1627-1630 up to RC3 in tilted window position up to RC2 in tilted window position as french casement window up to RC4 in closed / locked window position
Bullet resistance¹⁾	according to DIN EN 1522-1523 up to FB4-NS in closed window position
Blast resistance¹⁾	tested with 100kg explosive, reflected pressure: 0.87 bar.

Performance characteristics to DIN EN 14351

Resistance against wind load	according to DIN EN 12210	depending on type up to class C5
Water tightness	according to DIN EN 12208	depending on type up to E750
Air permeability	according to DIN EN 12207	depending on type up to class 4
Impact	according to DIN EN 13049	depending on type up to class 5
Thermal insulation	according to DIN EN ISO 10077-2	$U_W = 0.9$ up to 1.7 W/m ² K Values vary depending on size and glazing.
Sound insulation	DIN EN ISO 717-1	up to R_W 45 dB, in closed window position. Values vary depending on size and glazing.

Sizes | glazing | design

Profile depth	frame: 115mm wing: 125mm
Glazing	security level of the glazing is the same resistance level as the complex construction. Glass thickness up to 85mm with flush glazing beads.
Size	wing sizes up to 1.60 x 2.40 m ²⁾ (width x height)
Design	single and multiple window elements double sash window as french casement window (RC2) with side panels and top lights combinable with aluminium door series S6es and mullion-transom construction series S1-S6-50 and S1-S6-S60
Hardware wing weights	Hardware for heavy weights. Weights: tilt and tilt turn hardware up to 200 kg.
Surface	Anodized or powder coated. Planked with all kinds of stainless steel, stone, bronze, various types of wood.

¹⁾ other or higher requirements on request.

²⁾ Permitted sizes according to test report forced entry resistance, to comply with very good values for the water tightness and resistance to wind load must state the architecture as well as the location of the building are taken into account (e.g. wind direction).

Blast resistance:
SECURON® also offers protection in tilted window position against pressure waves (reflected pressure: 0.87 bar).



SYSTEM SÄLZER®

Combined protection

For more than 30 years SÄLZER has led the industry in the development and technology of forced entry, bullet, and blast resistant building components.

Each of our products is subject to a strict internal and external quality management.

Please ask for additional brochures about our further products: windows, facades, doors, gates, guard houses, partition walls, access control, barriers, bollards, accessory components etc.



Spectacular test videos:

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