



WINDEX® pressure release window



Highest security with the pressure release window **WINDEX®**

The pressure arising from an explosion or deflagration will be derived to the outside by the **WINDEX®** pressure release window. The **WINDEX®** window is a double window.

The internal element is a tilt and turn window with an integrated glazed top hung wing. The outside window element consists of a frame with security glass. A sharp-edged steel bolt is mounted on the frame (see architectural drawing).

Surrounding the frame clip on profiles are additional secured with nylon robes.

If an explosion or deflagration happens, the pressure moves the top hung wing of the window to the outside. The top hung wing will be destroyed by the sharp-edged steel bolt which is fixed at the outside window element.

The external security glass retains in the frame and stops the broken glass fragments of the top hung wing. The surrounding cover sheets of the external element will be pulled out by the pressure.

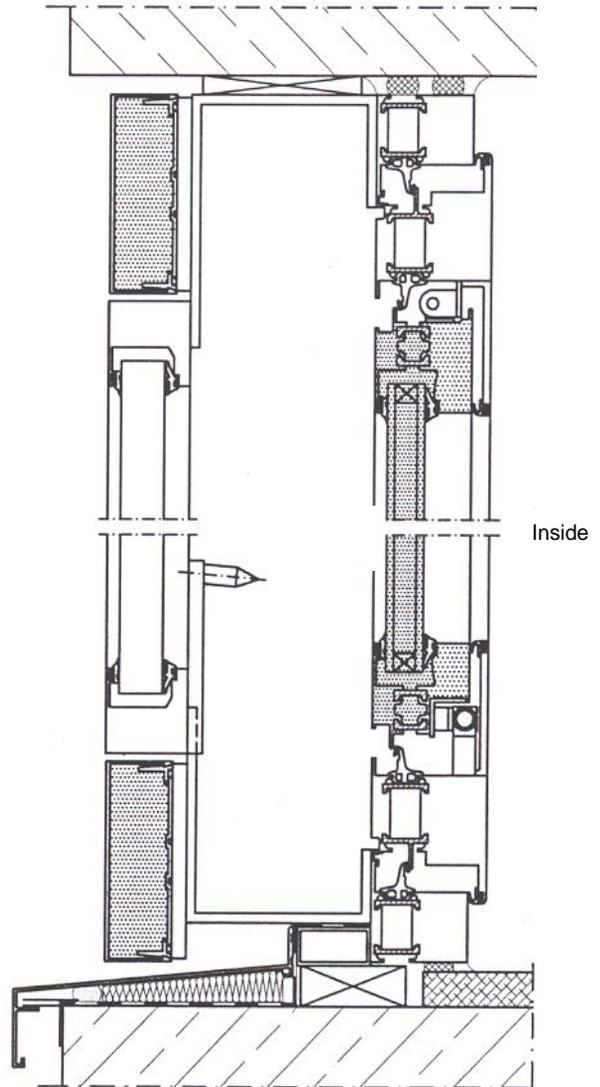
The profiles can only fly about 20 cm, because they are additional secured by nylon robes so the pressure gets out and the profiles can't injure persons.

Security

- » Pressure release: 1-20 mbar
- » Optional: higher pressure, forced entry and bullet resistance

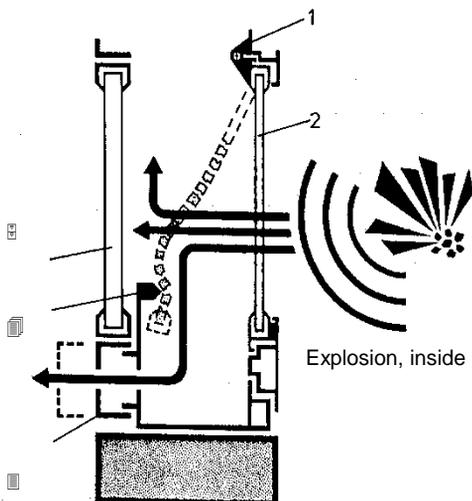
Application

- » Control center of power switching station
- » Laboratory buildings of the petro-chemical industry
- » Refineries
- » Paintshops
- » Sawmills, mills
- » and wherever explosions or deflagrations can take place



Architectural drawing of the double window **WINDEX®**.

Function in case of emergency



Legend

1. pivot
2. top hung wing
3. surrounding clip on profiles / release channel in the window frame
4. sharp-edged steel bolt
5. external window glazing

Advantages of *WINDEX*®

- » Free adjustability at which pressure the window opens; up to 20 mbar
- » No flying components of the window in case of an accident
- » Pressure release by the window profiles
- » Different profile sizes and pressure release channels
- » Aluminium profiles are thermally insulated
- » Natural lighting by the windows
- » Optional forced entry and bullet resistance
- » Low maintenance
- » Different variations and surfaces
- » Natural ventilation, the tilt and turn window can be opened
- » The installation depth is min 240 mm



Sharp-edged steel bolt which is fixed at the outside window element.



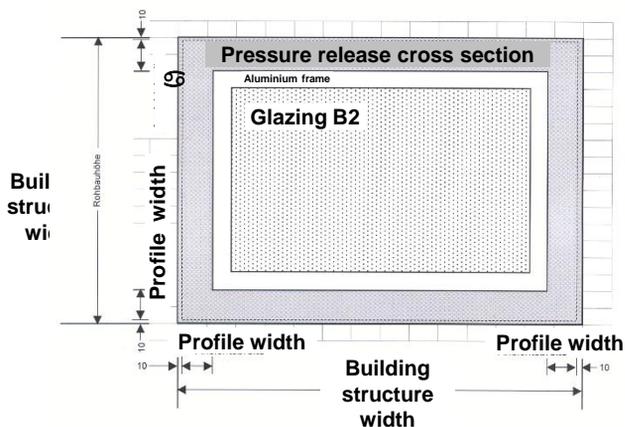
Inside and outside view of the *WINDEX*® window.



Inside view in the double window: tilt and turn wing is opened. View onto the outside glass and at the surrounding security profiles. The profiles are additionally fixed with nylon robes.

System elevation *WINDEX*® pressure release window

The *WINDEX*® types 103, 132 and 171 refer to the width of the outside clip on profiles. In case of emergency these profiles fly out and the pressure releases.



<i>WINDEX</i> ® Type	Profile width in mm	Pressure release cross section width
103	103	103 + 10 = 113 mm
132	132	132 + 10 = 142 mm
171	171	171 + 10 = 181 mm

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