



Our multifunctional door **SECUFIRE®** is a gold medal winner. The fair Essen honours particularly pioneering developments with the **security innovation award**.



# **SECUFIRE® Multifunctional door**

## **Combined Protection against Forced Entry, Ballistic Attacks, Fire, Smoke and Explosion**



# **SECUFIRE®**

**Combined protection against forced entry, ballistic attacks, fire, smoke and blast.**

SÄLZER has developed a multifunction door, part of our **SECUFIRE series®**, which combines a range of different security requirements. Architects, designers and high-risk property owners are familiar with the problem: on the one hand doors have to offer protection against fire and smoke, on the other hand the door must withstand ballistic, forced entry or blast attacks. Often the entrance doors are the emergency exit and anti-panic locks has to be installed. Additionally the door should be architecturally challenging and have huge glazing and slim profiles.



## **Certified security:**

- Forced entry and break out resistant up to RC4
- Bullet resistant up to FB4-NS
- Blast resistant, tested with a charge of 500kg
- Fire protection EI30, EI45, EW60, E60
- Smoke protection S<sub>a</sub>, S<sub>200</sub>
- Mechanical durability class C5
- Mechanical, electromechanical or motorized locks
- With emergency exit locks tested according to DIN EN 179 or panic door locks according to DIN EN 1125; also in the fully glazed variation. Applicable for emergency exits
- For detention facilities and forensic hospitals tested with special prison locks: with simple locking systems (RC3) and multiple locking systems (RC4).



Design variation: single door with side panel and vertical push handle.



Single door with two side panels.

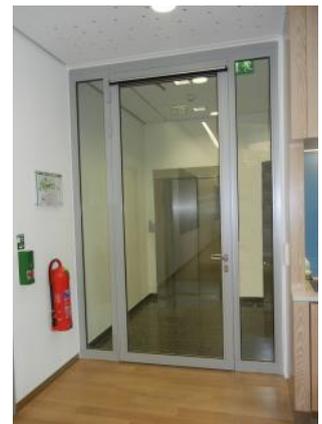


The door is generously glazed despite forced entry resistance in RC4 and anti-panic hardware according to DIN EN 179.

## Individual solutions

Every project is different, many factors vary, such as the safety requirements, constructional or country-specific conditions, legal requirements, the design (simple, representative, decorative, durable, livable ...). **SECUFIRE®** offers several tested variations which enable an individual design:

- Single or double door
- Side and top lights, glazed or opaque
- Individual sizes
- Several thickness of glass, glass sizes, glass types and panel inserts
- Applicable as interlocking door with special control system
- Applicable in emergency exits (anti-panic function)
- As an interior door or in thermally insulated version for outside use
- Surface: pre-treatment galvanized, yellow chromate. Options: primed for customer's final coating, wet coated, powder coated. Individual colours, cladding e.g. anodized aluminium, stainless steel or wood.
- Installation options: approved for installation in brickwork, aerated concrete, KS-masonry, steel tube frame
- Profile depths: 82 mm | 74 mm | 69 mm | 64 mm (depends on requirements)
- Extensive additional equipment such as door drives, motor locks etc.



Surface: individual colour, wet or powder coated, optional cladded with anodized aluminium, stainless steel or wood.



Door with side and top light.

# Forced Entry

## In different product variations tested up to RC4

All doors were tested according to DIN EN 1627-1630 from both sides with different locking systems. On request equipped with panic door locks according to DIN EN 1125 or DIN EN 179. **SECUFIRE®** can be used for an emergency exit (with anti-panic function), also in the fully glazed variation due to the special frame and glass construction. The type **SECUFIRE® U** is thermally insulated and tested according to the product standard DIN EN 14351 (CE marking). The type **U** is well suited as outdoor.



Variations: single and double door, or with side panels. Colour can be selected.

# Break Out

No test standard for break out resistant products exist. Because of this **SECUFIRE®** was tested from both sides according to the standard for forced entry resistance DIN EN 1627-1630.

On the one hand the door offers protection against attacks from the outside and/or break out attempts from the inside. The door was tested with special locks for prison: simple locking systems (up to RC3) and with multiple locking systems (RC4).

Therefore **SECUFIRE®** is ideally suited for use as an internal door for the police, in detention facilities and forensics.



Internal door of a detention facility.

# Ballistic Attacks

## Resistance up to class FB4-NS

**SECUFIRE®** was tested according to the European standard for bullet resistance DIN EN 1522 + 1523 in the resistance class FB4-NS. In this class, the test specimen is shot several times from a 5 m distance with a handgun, caliber 357 Magnum und 44 Rem. Magnum. The addition ‚NS‘ means ‚no splinters‘, no splinters flew out of the construction into the room. In case of emergency, no one had been injured by the shelling.

# Fire Security up to EI30\*, EI45\*, EW60, E60



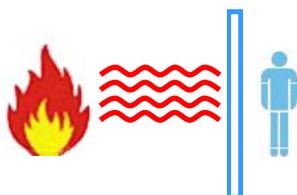
Many threat scenarios require additional to the protection against forced entry and bullets the protection against fire and smoke.

**SECUFIRE®** offers fire protection up to level EI45, also in the fully glazed forced entry resistant variation with anti-panic function up to resistant class RC4.

Multifunctional door in a furnace, test level EI45. The left element is a single door, the right element is a fixed window, which can be used as side light of the door or as a stand-alone solution.

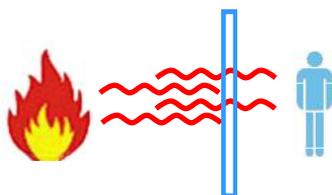
The resistance against fire was tested and certified according to the European standard DIN EN 1363-1, 1363-2, 1634-1 in conjunction with DIN EN 14600 and 13501-2. The door was classified in level EI45\* (45 min. impact of fire) and EI30\* (30 min. impact of fire). Additional, the door fulfilled the test conditions in the classes EW60 and E60 (formerly G60, explanation see graph). **SECUFIRE®** was tested as a single door with glazing, panel fillings and side lights from both door sides by a renowned institute.

### Classified according to EN 13501-2



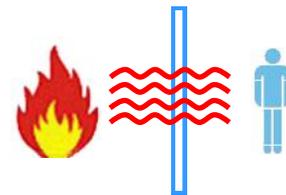
**EI30\*(T30) EI45\***

Protection against fire, hot gases and smoke. Thermal insulation. EI30 = 30 minutes and EI45 = 45 minutes fire resistance.



**EW60**

Protection against fire, hot gases and smoke. Reduced heat transfer.



**E30(G30) and E60 (G60)**

Protection against fire, hot gases and smoke. Passage of the heat radiation.

\* based on positive test report, individual approval possible.

# Smoke Protection

The smoke is the greatest danger for humans in case of fire. Poisonous gases spreading extremely fast.

With **SECUFIRE®** you are always on the safe side, also against smoke. The door was tested according to DIN EN 1643-1 as single and double door. The results of the tests are classified accordance to DIN EN 13501-2 into level S<sub>a</sub> and S<sub>200</sub>. The class S<sub>m</sub> is often referred as S<sub>200</sub>.



The successfully passed tests demonstrate not only the high level of security but also the good processing quality, reliability and robustness. The door is suitable for the toughest conditions of use.

## Durability

A door must offer protection against fire and smoke in case of emergency even after years of use and many opening and closing cycles.

Because of this SÄLZER doors are always tested in a mechanical durability test. After 200,000 opening and closing cycles the door was **classified** according to the European standard **DIN EN 14600** in the highest level C5.

# Characteristics

Security	Standard	Classes <sup>1)</sup>
<b>Forced entry and Break out resistance</b>	According to DIN EN 1627-1630 Single and double door tested from both sides	<b>RC4   RC3</b>
<b>Bullet resistance</b>	According to DIN EN 1522-1523 According to UL 752	<b>FB4-NS Level 6</b>
<b>Blast resistance</b>	Tested according to the requirement of the customer	<b>Tested with a charge of 500kg</b>
<b>Fire protection</b>	According to DIN EN 13501-2 classified Single door tested from both sides, double door on request	<b>EI 45, EI30 (T30) EW60 E60 (G60)</b>
<b>Smoke protection</b>	According to DIN EN 13501-2 classified Single and double door tested from both sides	<b>S<sub>200</sub> , S<sub>a</sub> (RS)</b>

<sup>1)</sup> higher requirements on request.

Assemblies Security level / Application	Forced entry / Break out up to <b>RC4</b>	Bullets up to <b>FB4-NS</b>	Fire <sup>2)</sup> up to <b>EI30, EI45 EW60 E60</b>	Smoke <b>S<sub>200</sub>, S<sub>a</sub></b>	Outdoor use	Indoor use
<b>SECUFIRE® S</b>	•	•	•	•	—	•
<b>SECUFIRE® U<sup>3)</sup></b>	RC4 (without fire protection)	•	E30, EW 30 (up to max. RC3)	—	Thermal insulation 1.4- 1.9 W/m <sup>2</sup> K* sound insulation up to Rw 47dB	•
<b>SECUFIRE® F</b>	•	On request (depends on the thickness of the glass )	•	•	—	•
<b>SECUFIRE® P</b>	•	•	—	RS-1 / RS-2 (up to max. RC3)	—	•

<sup>2)</sup> based on positive test report, individual approval possible.  
\* depends on the glass thickness.

## Glazing | surfaces | locking | weights | installation | outdoor use

Glazing	Security level of the glazing is the same resistance level as the whole construction. Glass thicknesses in response to e.g. the security level up to 70 mm. Option: glazing bead flush, depends on the security level.
Profile widths	Because of the multiplicity of the product variations, please asked or see in the "architecture drawings catalogue".
Surface	Pre-treatment galvanized, yellow chromate. Options: primed for customer's final coating, wet coated, powder coated. Individual colour, cladding with e.g. anodized aluminium, stainless steel or wood.
Locks   Fittings	Mechanical, electromechanical or motorized locks, simple or multiple locking system. Applicable in emergency exit (with anti-panic function), with emergency exit locks according DIN 179 and panic door locks according DIN 1125, tested up to RC4. All security fittings which are tested and approved in the respective security level can be installed. For detention facilities and forensic hospitals tested with special prison locks: simple locking systems up RC3 and with multiple locking systems (RC4).
Hinges   wing weights	Hinges are designed for high weights. Ease of movement despite high leaf weights. Hinges bear wing weights up to 400 kg. Higher weights on request.
Threshold   Floor gas- ket	Threshold or adjustable floor gasket. Barrier free entrances and exits are possible.
Installation   Wall connection	Approved for installation in brickwork, aerated concrete, KS-masonry, steel tube frame. Bullet resistance: the wall connection is also tested and recommended.
3) Outdoor use	The execution <b>SECUFIRE® U</b> is thermally insulated and tested according to the product standard DIN EN 14351 (CE marking) and can be used as outdoor.

Series **SECUFIRE®** is also available as **window**, information in a separate brochure.

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# Complete solutions for combined Protection

For more than 40 years SÄLZER has led the industry in the development and technology of forced entry, bullet, fire 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, drop arm barriers, bollards, accessory components etc.



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