

Double / two-sided fire protection-roller shutter construction > EI60

High static load of the fire wall

Risk of damaging system components



Disadvantages:

- High place requirement for protection target demands of > EI60 as a double roller shutter construction is needed
- Disturbing side guides and casings on both sides

Disadvantages:

- High static load for wall and lintel due to heavy weight of door construction which could gain weight in a disproportionate way according to opening size

Disadvantages:

- Risk of malfunction at with conventional fire protection doors by damaging important guidance components
- Higher repairing sensitivity at mechanical through-going traffic

For highest architectural demands



Standard bottom tray
Powder coated surface
(colour shades selectable)

Bottom tray with lighting devices

Powder coated surface of the bottom tray
(adaption to the ceiling plan)

Award for the „Hiddenshield“

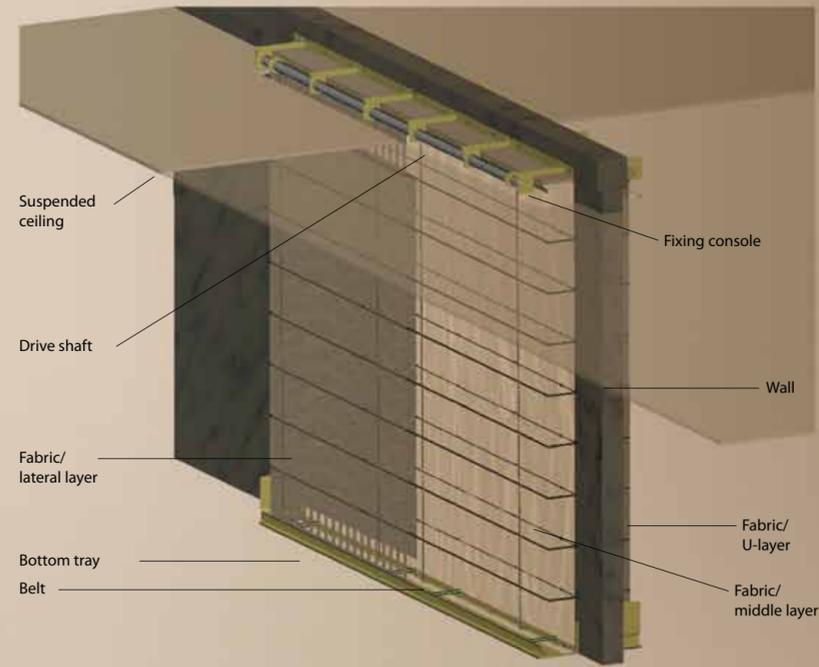


Fire protection for highest architectural demands and open design concepts

First closure worldwide without side guides

Offers higher design flexibility to architects and planners

Technical construction system "Hidden Shield"



Awards and innovation prices

Invisible fire protection



IP Management Award 2014

German Award of Innovation "Architecture + Civil Engineering"

"Fire Protection of the Year 2011" by FeuerTRUTZ

"Encyclopedia of the German World Market Leader" 2010

German Award of Innovation „Architektur + Bauwesen“

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Hidden Shield

Textile fire protection closures EI,30/90

Hidden Shield EI, 30

Hidden Shield EI, 90



10. World Novelty – and this has already been awarded!

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Innovation for your Protection!

Challenge: Harmonious balance between form and function

Single-leaf or multiple-leaf fire protection doors

Single-part or multi-part fire protection sliding doors

Single-leaf roller shutter (up to EI60)



Disadvantages:

- Frame constructions are necessary
- Free standing door leaves
- Fixed fields necessary, depending on the opening size
- Restrictions of the theoretically possible passage width

Disadvantages:

- Disturbing components like rail, inlet profile and counterweight box
- High place requirement for parked door space at the wall

Disadvantages:

- High place requirement for casing at the wall (depending on the respective space conditions)
- High static load of the fire wall due to the high weight
- Necessary side guides on the wall

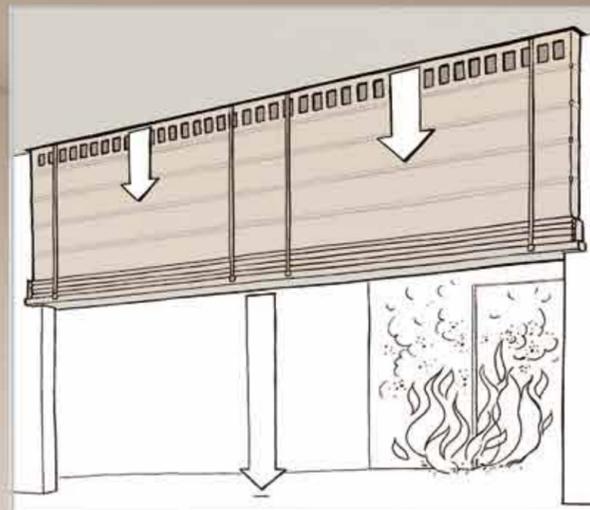
Solution: hidden fire protection closure "Hidden Shield"



Advantages:

- ▶ Insulating fire protection closure with the protection target EI, 90 (T 90) for highest requirements, no compensatory actions necessary like sprinkler and associated installations / investments in additional water impact
- ▶ Offers higher design flexibility to architects and planners:
 - by hiding the closure completely in the suspended ceiling
 - by design flexibility of the embrasure style
 - by surface designing of the ceiling which can be continued for the bottom tray
 - no additional inspection openings
- ▶ Minimal static load for the wall due to light weight of the closure, lintel can be omitted in case of installation at the ceiling
- ▶ No restrictions in the passage area by disturbing frame- or side guide constructions, thus no risk of damage

Hidden Shield



System details

- Insulating effect by radiation reducing fabric for fire protection targets up to EI, 90 (T-classification)
- For openings up to 12 m x 5 m (clear width x clear height)
- Textile fire protection closure in multi-chamber construction
- Embrasure is used as guidance, that means that no side guides or other visual disturbing factors
- Lateral system overlapping 175 mm
- As a standard with the Gravigen drive system, that means velocity controlled closing without auxiliary energy, no fire resistant cables necessary
- Low casing with symmetrical drive unit
- Bottom tray with optical design possibilities
- Slide and roller elements protect the wall against scratches when opening and closing
- Flexible stop system provides an exact top position

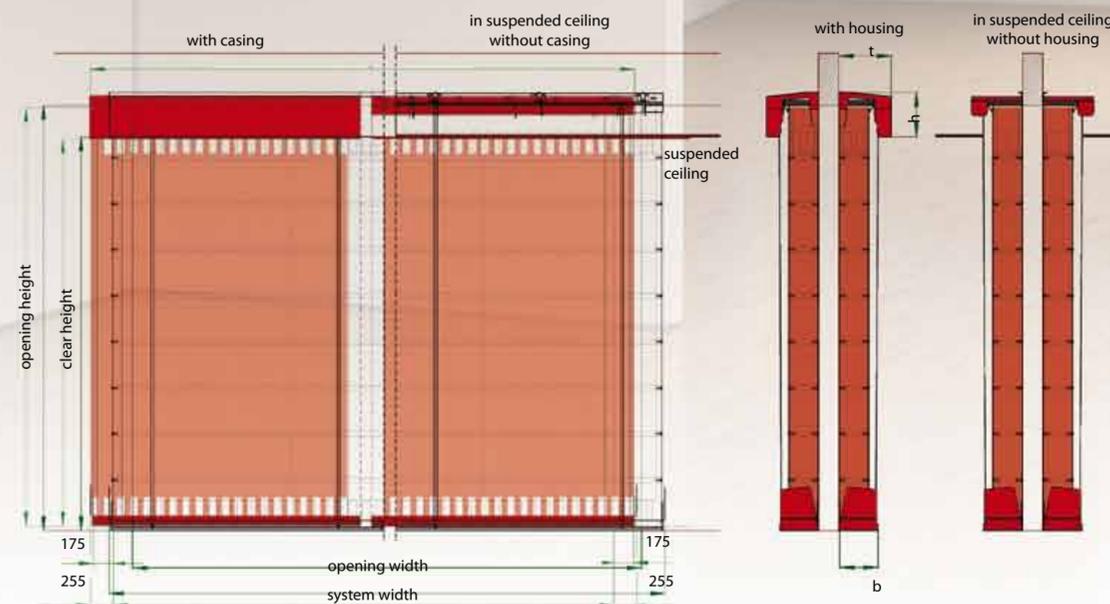
Calculation formula

Calculation of the clear height = $0,925 \times (\text{opening width} - 61 \text{ mm})$

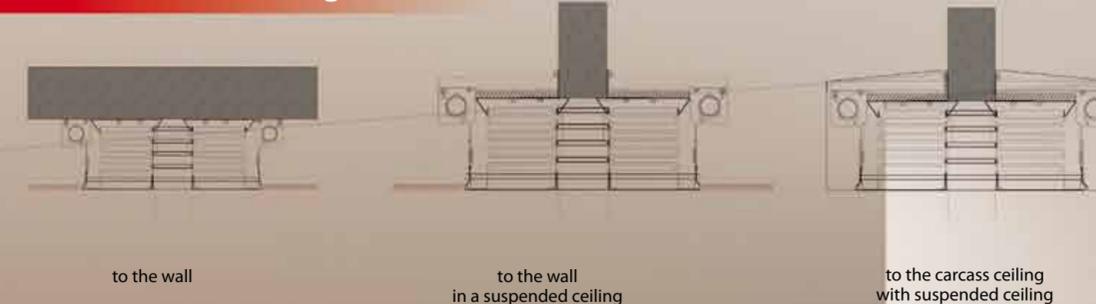
Some examples

Clear height in mm	opening height in mm	t mm	h mm	h1 mm	b mm
2085	2500	575	415	530	415
2500	3000	575	500	615	415
4170	5000	575	830	945	415

Dimensions



Installation of casing



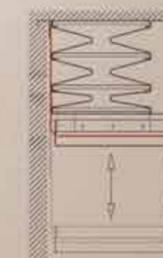
Design of the bottom tray



Design of the embrasure



Wall Protection



Protection target

Protection target	Integrity and limitation of heat radiation	Integrity and limitation of heat radiation
Classification	EI 30 (T 30)	EI 90 (T 90)
Test reports	MPA-BS 3,5 m x 3,7 m	FIRES 4,3 m x 3,7 m
		MFPA Leipzig 9,4 m x 3 m

Lateral connection

