Hidden Shield

Textile Fire protection closures El 30/90

Hidden Shield El 30 Hidden Shield El 90

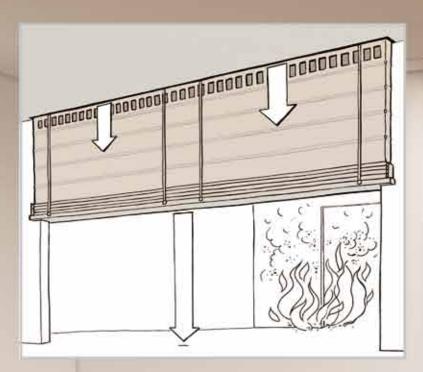
10th world novelty
.... and already awarded







Hidden Shield



System details

- · Insulating effect by radiation reducing fabric for fire protection targets up to El 90 (T- classification)
- · For openings up to 12 m x 5m (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

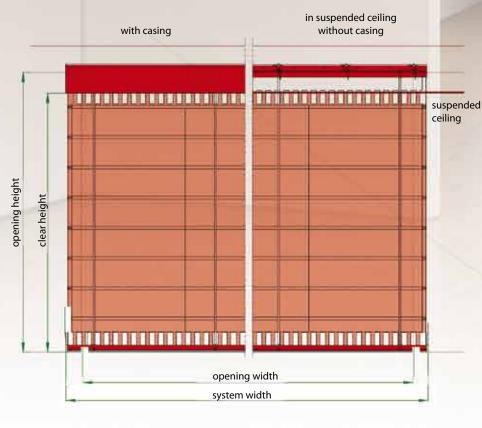
Calculation formula

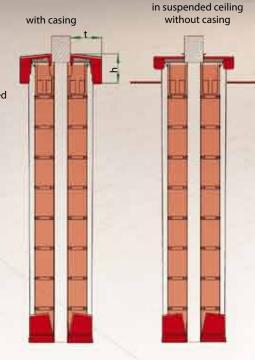
Calculation of the clear height = $0.925 \times (opening width - 61 \text{ mm})$

Some examples

Clear height in mm	opening height in mm	t mm	h mm
2500	2760	415	375
3370	3700	415	450
5000	5460	415	575

Dimensions





Challenge: Harmonious balance between form and function

Fire protection doors with one or more leaves

One or multi-part fire protection sliding doors

Roller Shutter (up to El 60)







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
- · Much required space on the wall

Disadvantages:

- Much required space for casing (depending on the respective space conditions)
- High static load of the fire wall du 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 El 90 (T 90) for highest requirements, no compensatory actions necessary, like sprinkler and associated installations / investments in additional water impact



More design freedom for architects and planners:

- · by hiding the closure in the suspended ceiling
- · by design freedom of the embrasure style
- · because the surface finish for the ceiling can also be chosen for the bottom tray
- · no additional inspection openings are necessary



Minimum static load of the wall by the light weight of the curtain; the lintel can be omitted when the system is installed at the ceiling



No restrictions in the passage area through disturbing frames or side guides, thus no risk of damage

Double sided fire protection roller shutter > El60

High static load of the fire wall

Risk of damaging system components







Disadvantages:

- Much required space for protection target demands of El 60 because a double roller shutter construction is needed
- Disturbing side guides and casing on both sides

Disadvantages:

 High static load for the wall and the lintel by the heavy weight of the door construction that can increase disproportionately to the opening size

Disadvantages:

- Risk of malfunction for traditional fire protection doors by damaging important guidance components
- · Higher repair sensitivity at mechanical transit traffic

For highest architectural demands



Standard bottom tray Powder coated surface (colour freely selectable) Bottom tray with lighting devices

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

Award at the exhibition "Bau 2011" in Munich

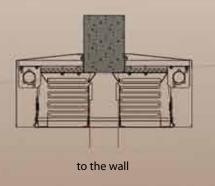


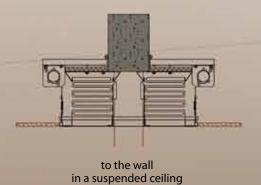
Fire protection for highest architectural demands and open design concepts

First closure without side guides worldwide

Offers more design freedom to architects and planners

Installation of casing

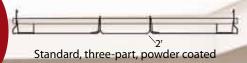


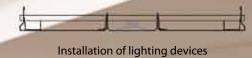


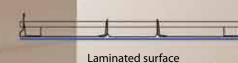


to the carcass ceiling with suspended ceiling

Design of the bottom tray







Design of the embrasure



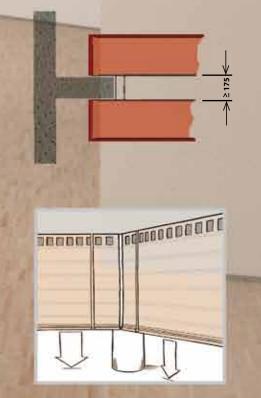




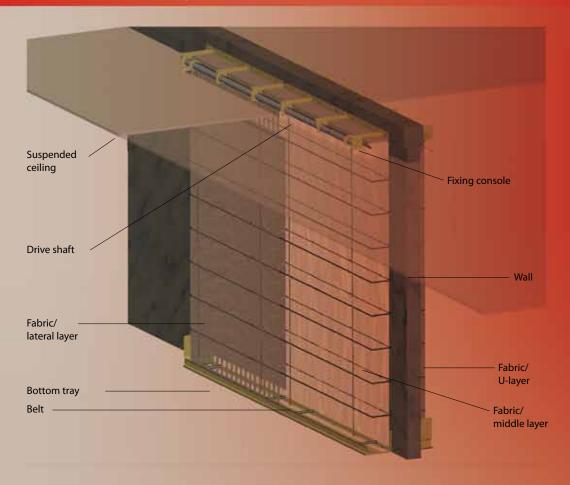
Protection target

Lateral connection

Protection target	Integrity and limitation of heat radiation of heat radiation	
		7.00
Classification	EI 30 (T 30)	El 90 (T 90)
Prüfberichte	MPA-BS	FIRES



Technical construction system "Hidden Shield"



Awards and innovation prizes

Invisible fire protection



"Bauen im Bestand" from the federal ministry



MDR1 award for the series "einfach genial"



Certficate mips, Moscow



Headquarters

Stöbich Brandschutz GmbH Pracherstieg 6 38644 Goslar, Germany Phone +49-(0)5321-5708-0 +49-(0)5321-5708-991

Branch South

Stöbich Brandschutz GmbH Gewerbehof 8 73441 Bopfingen, Germany Phone +49-(0)7362-9614-0 +49-(0)7362-9614-50

Branch East

Stöbich Brandschutz GmbH Geltestraße 12 06188 Landsberg OT Queis, Germany Phone +49-(0) 34602-552-0 +49-(0)34602-552-50

Branch West

Stöbich Brandschutz GmbH Max-Planck-Straße 13 59423 Unna, Germany Phone +49-(0) 23 07-98689-0 +49-(0) 23 07 - 98689-50

International sales partners respectively subsidiaries · Mexico ·Spain ·Finland

· Australia · Austria · Belgium · Bosnia and Herzegovina

·Bahrain

·Bulgaria · Brazil · Canada ·China

· Denmark

 \cdot Estonia

· Croatia ·Cyprus · Czech

·Iceland \cdot Ireland ·Israel · Italy Latvia ·Liechtenstein \cdot Lithuania

 \cdot France

· Greece

·Hungary

· Great Britain

· Hong Kong

·Luxembourg

· Macedonia

· Portugal · Qatar ·Romania ·Russia · Serbia and Montenegro · Saudi Arabia

· Singapore

· Slovakia

Slovenia

Netherlands

· New Zealand

· Norway

· Poland

· Ukraine ·USA · United Arab **Emirates**

Sweden

·Turkey

Switzerland