

Automatic fire & smoke curtains

- Stoebich Fire & Smoke Curtain S
- Stoebich Fire & Smoke Curtain H / HC
- Stoebich Fire Curtain U
- Stoebich Fire & Smoke Curtain P
- Stoebich Fire & Smoke Curtain E
- Stoebich Fire Curtain W
- Stoebich Fire Curtain F
- Stoebich Fire Curtain I
- Stoebich Fire Curtain V

Automatic fire tight curtain

Stoebich Fire Curtain T

- RZ 8
- RZ 7

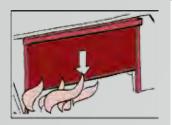




info@stoebich.us, www.stoebich.us



Protection concepts with automatic textile fire curtain:





2. For openings in ceilings

demands exist?

How to seal large openings in walls - which create fire compartments - according to the protection target although the available space is limited or other architectural demands exist?

How to seal large openings in ceilings – which create fire

compartments – according to the protection target even though the available space is limited or architectural



These automatic systems are very small and easily integrated into any situation. You may choose between the protection targets up to 4 hours fire rating or up to 120 minutes insulation ("invisible fire protection").

These automatic systems are very small and easily integrated into any situation. You may choose between the protection targets up to 2 hours fire rating, up to 60 minutes integrity with limitation of heat transmission, or up to 120 minutes insulation ("invisible fire protection").

The Stoebich Fire Curtain offers a polygon shaped design

without the necessity of disturbing side guides but still

maintaining the required tightness. Due to the flat de-







4. For openings in facades in corner situations When buildings or parts of a building connect to each other in a corner situation or if they are separated by a fire wall, no openings in the fire wall are allowed. How to guarantee this if operable windows are planned?

fire protection closures to architectural constructions sign, the system is easily integrated into ceilings and can even when it has to create a room or has to go around the be built with extremely large widths and lengths. Where corner? as the angle may be between 30° and 150°.

The protection is assured by the possibility to install them inside or outside the building. With this automatic sealing system, operable standard windows without firerated glazing can be used. Therefore, the room comfort is not restricted.

5. For openings in facades with a minor distance between the buildings

Subject to a lower deviation of these requirements the adjacent walls need to be designed as fire walls. Openings have to be closed in a fire-resistant manner to avoid the passage of fire. How to guarantee this if operable windows are planned?

The protection is assured by the possibility to install them inside or outside the building. With this automatic sealing system, operable standard windows without fire-rated glazing can be used. Therefore, the room comfort is not restricted. The robust functionality is approved by a weathering test for 10 years created by a German testing laboratory.

The protection is assured by the possibility to install them inside or outside the building. With this automatic sealing system, operable standard windows without fire-rated glazing can be used. Therefore, the room comfort is not restricted.

7. To prevent the passage of fire from one level to another

A textile fire protection closure designed as a barrier that prevents the passage of flames from one level to another. How to solve this problem without limiting the field of view?

The creation of sections within fire compartments limits

the risk of fire to especially endangered machines or

installations. How to achieve such a sealing?

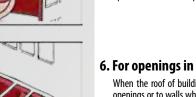
8. To create a section

Fire protection closures which are integrated into a building and being activated by fire detection or a thermal release mechanism automatically, create a fire barrier in the case of fire.

The Stoebich Fire Curtain creates the required walls or even ceilings. In case of a fire, these rooms can be flooded by high pressure water-spray extinguishing systems or gas extinguishing systems that douse the fire. The fire protection systems are designed in dependence on the allowed leakage. Systems with side guides are used to match the high demands concerning tightness for gas extinguishing systems.

Stoebich Fire Curtain U Stoebich Fire & Smoke Curtain P Stoebich Fire Curtain I Stoebich Fire & Smoke Curtain E





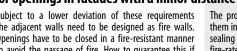


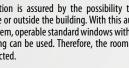
When the roof of building extensions join to walls with openings or to walls which are not fire-retardant. How to solve this problem?

Stoebich Fire Curtain W Stoebich Fire & Smoke Curtain E Stoebich Fire & Smoke Curtain P











Stoebich Fire & Smoke Curtain E Stoebich Fire Curtain I Stoebich Fire Curtain T Stoebich Fire Curtain V

Stoebich Fire & Smoke Curtain H/HC

Stoebich Fire & Smoke Curtain S

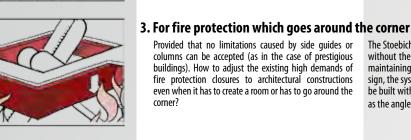
Stoebich Fire Curtain F

Stoebich Fire Curtain F

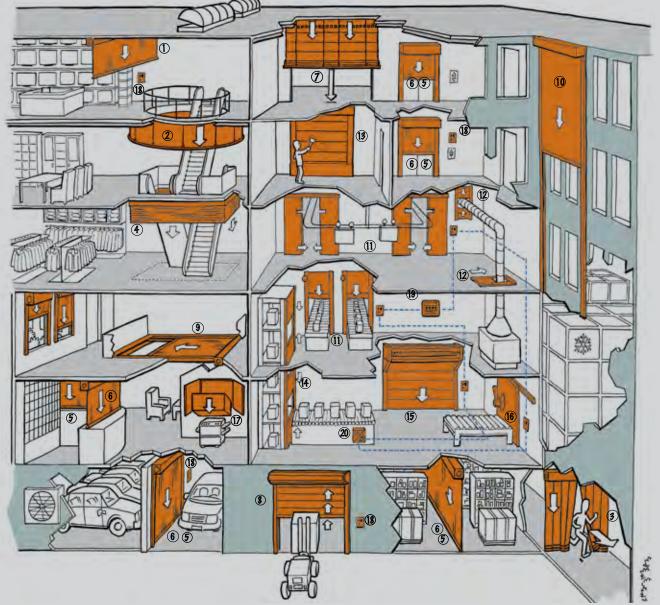
Stoebich Fire CurtainW

Stoebich Fire Curtain F

Stoebich Fire & Smoke Curtain H/HC



Stoebich innovative fire & smoke protection



- 1. Smoke extraction by automatic or fixed textile smoke curtains
- 2. Smoke curtains with a curved course
- 3. Automatic textile smoke curtain with the feasibility to pass through
- 4. Creation of areas for smoke conduction or as fire protection closure
- 5. Automatic textile fire & smoke tight curtain
- 6. Automatic textile fire curtain for openings in walls
- 7. Automatic textile fire curtain without side guides
- 8. High speed door with integrated fire protection
- 9. Automatic textile fire curtain for openings in ceilings
- 10. Automatic textile fire curtain for facades, exterior installation

- 11. Conveyor system closures for uninterrupted and interrupted conveyor systems
- 12. Conveyor system closures for pneumatic conveyor systems
- 13. Automatic textile fire curtain with Hose Stream test
- 14. Elevator shaft doors as fire protection closure
- 15. Fire protection stacking door
- 16. Isogate fire protection insulation doors and gates
- 17. Fire protection hood for electric devices
- 18. RZ 7, RZ 8, AMU control units
- 19. CAN BUS cross linked hold open units
- 20. Emergency power back up unit "Powerdrive" 400 480 VAC

Attention:

Textile fire curtains are not regulated in the Building Code and has to be approved by the local authorities as an alternate solution, means and methods.



Protection targets

Definition

Fire rating

Test standard/ certificate

largets				
Medaco Blaze Ave extract for loss	E (European classification)	Integrity Integrity is the resistance against fire to avoid a passage of flames or hot gases. Protection target El (insulation) can be achieved by a fire load free zone: 30 min. insulation: x = 3.5' 60 min. insulation: x = 5' 90 min. insulation: x = 7'	up to 4 hours fire rating	EN 1634-1 UL 10B (20 min. fire rating) UL 10B (120 min. fire rating) UL 10C (20 min. fire rating) UL 10D (120 min. fire rating) NFPA 252 (20 min. fire rating)
Nev deficição Aumanium cost Blaze	EW (European classification)	Integrity with a limitation of heat transmission Limitation of the heat transmission is the charac- teristic to reduce the heat being transferred through a fire protection system to limiting materials. Protection target EI (insulation) can be achieved by a fire load free zone: 30 min. insulation: $x = 0.7'$ 60 min. insulation: $x = 1'$ 90 min. insulation: $x = 1.7'$	up to 2 hours fire rating with limitation of heat transmission	
	El (insulation with sprinkler) (European classification)	Insulation with intensified sprinkler protection in case of fire Insulation is the ability of the system to avoid the transmission of fire caused by heat radiation. The transmission has to be limited in a way, that neither the opposite fire side surface nor any other materials near to this surface ignite and so persons are protected. x = 0.7' - 1.7' depending on the environment	up to 3 hours insulation	
Blaze	El (insulation with water film) (European classification)	Insulation with water in case of fire	up to 3 hours insulation	
Blaze	El (insulation without water) (European classification)	Insulation without water in case of fire	up to 1 hour insulation	
Blaze Cosspore -	Transmission from one level to another	Avoidance of transmission of flames from one level to another without (with) balu- strade	The necessary barrier (or lintel) height of 3.3' is automatically created in case of fire	
	Extinguishing	Creation of sections Limitation of a room which is usually not there to avoid the transmission of flames or hot gases to the room without fire. Enclosure by textile fire protection closures with the targets: limitation of the fire, smothering of the fire, extinguishing of the fire by gases or water-spray.	Enclosure by textile fire protectio closures with the target to: · limit the fire · quench the fire · extinguish the fire with gases or water-spray	

Stoebich - References North America

2012 Harley Marine, Seattle, Washington



2014 Seaholm Power Plant, Austin, Texas



2011 Sargento Foods, Plymouth, Wisconsin





2012 Historical Sherlock Building, Portland, Oregon



2013 The University of Missouri, Kansas City, Missouri



2013 Pharmaceutical Building, Princeton, New Jersey





2012 Hyatt Place Hotel, El Segundo, California



2014 New Broad Museum, Los Angeles, California



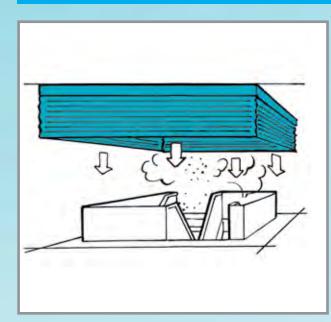
2010 Vancouver Library, Vancouver, Washington





Stoebich Fire & Smoke Curtain S

Room creating textile fire protection closure without any columns



ع

System description

- · 2 hours fire rating according to UL 10D
- \cdot 20 minutes fire rating according to UL 10B, UL 10C, NFPA 252
- \cdot closed polygon shape or open systems with connection to
- the wall by special side guides, lengths up to 53' per side and a drop length up to 20'
- · rectangular corners or angles from 30° up to 150°
- \cdot corners without additional columns
- · low installation height
- \cdot self-leveling bottom bar (flush sealing with the ceiling)
- $\cdot \, warp\mbox{-}free \mbox{ bottom bar}$
- · drive unit with fail-safe technology (closing without auxiliary power)
- · drive unit with 10,000 cycles

Drop length

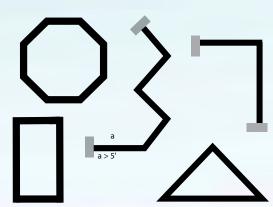
- · redundant drive unit as fall protection
- · additional unrolling fabric to form a chamber for the insulation by inside water sprinklers

Fabric	Perimeter of the system	Drop length	w	h
Stoebich Fire & Smoke Fabric E	≤ 300'	≤ 10'	1.6'	4.92"
Stoebich Fire & Smoke Fabric E	≤ 300'	10' - 20'	1.6'	8.86"
Stoebich Fire & Smoke Fabric H	≤ 300'	≤ 10'	1.6'	8.86"
Stoebich Fire & Smoke Fabric H	≤ 300'	10' - 20'	1.6'	17.72"
Stoebich Fire & Smoke Fabric E (insulation version)	≤ 300'	≤ 20'	1.97'	9.41"

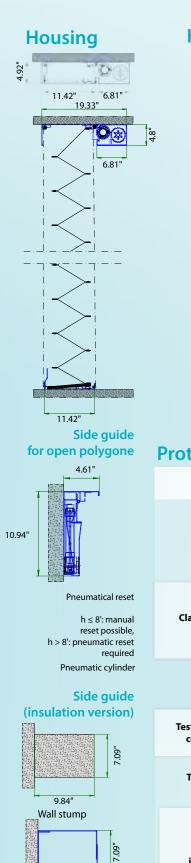
At least 2 drive units and one more for each 33' above 66' perimeter Other configurations and special design on request

Weight of the system: 23 Ibs per linear foot, side guides: 15 lbs per linear foot Clear rength (CL)

Range of runs of the fire protection closure





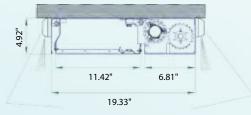


Housing (insulation version)



Protection targets

Bottom bar



With security device (infrared) (optional)

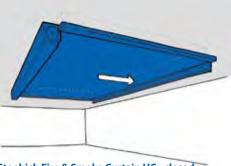
	Integrity	Integrity with limitation of heat transmission	Insulation with inten- sified sprinkler protection	Insulation by water mist in the intermediate layer
				Run Land
Classification	2 hours fire rating (UL 10D) 20 minutes fire rating (UL 10B, UL 10C, NFPA 252)	EW 30 (European classification)	El 90 (European classification)	El 120 (European classification)
Fabric	Stoebich Fire & Smoke Fabric E (ASTM E84)	Stoebich Fire & Smoke Fabric E (ASTM E84)	Stoebich Fire & Smoke Fabric E (ASTM E84)	Stoebich Fire & Smoke Fabric E (ASTM E84)
Test standard / certificate	UL 10B, UL 10C, UL 10D, NFPA 252, UL 864, UL 1784 OSHPD CA	European test standard EN 1634-1	European test standard EN 1634-1	European test standard EN 1634-1
Test report	OPA-2965-10	IBS 08062415 UB 3.3 / 10-018-1	IBS 08062416	EFR-14-G-001085
Water irrigation				

9.84" Metal plate as alternative for the wall stump (optional)

Stoebich Fire & Smoke Curtain H / HC

Horizontal textile fire protection closure for openings in ceilings





Stoebich Fire & Smoke Curtain HC - closed



System description - Stoebich Fire & Smoke Curtain HC

- system for large openings in ceilings without supporting or tensioning cables up to 33' x 33' (two-part version up to 33' x 66')
- housing and bottom bar build a closed casing under operating condition
- motorized closing and opening (emergency power supply is required)

System description - Stoebich Fire & Smoke Curtain H

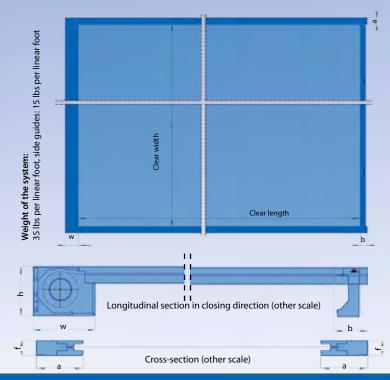
- system for large openings in ceilings up to 66' in width and high drop length
- tensioning cables in a distance of 5' to support the fabric with large dimensions as well as for the pressure load in case of smoke
- · high variability in design (e.g. arch-shape)
- safe-closing process up to 17' drop length with gas spring (no auxiliary energy) or with duplex drive system (electrical power supply is required) for drop length up to 30'
- \cdot spring system is closing with fail-safe technology

Special design

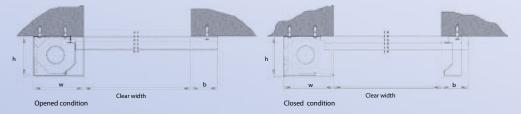
Deviation from the linear closing direction possible.

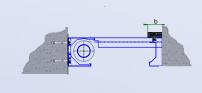


System	Clear width	Clear length	а	b	h	w	f
Spring	≤ 4.6'	≤ 5'	4.72"	4.29"	7.48"	7.87"	7.48"
Spring	≤ 15'	≤ 9.5'	4.72"	4.29"	7.48"	9.84"	7.48"
Spring	≤ 15'	9.5' - 16.4'	5.91"	4.29"	9.25"	11.42"	9.25"
Spring	15' - 100'	9.5' - 16.4'	5.91"	8.86"	9.25"	12.60"	9.25"
Duplex	≤ 66'	9.5' - 27.9'	6.30"	13.19"	10.79"	13.98"	3.15"
HC (1-part)	≤ 20'	≤ 20'	7.87"	8.66"	9.25"	11.81"	3.15"
HC (1-part)	≤ 33'	≤ 33'	11.81"	12.99"	15.75"	19.69"	5.91"
HC (2-part)	≤ 33'	≤ 66'	11.81"	19.69"	15.75"	19.69"	5.91"

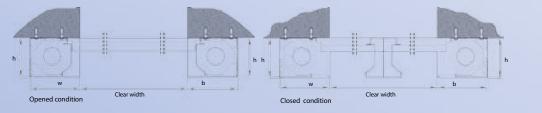


Stoebich Fire & Smoke Curtain HC (one-part): housings





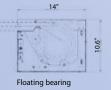
Stoebich Fire & Smoke Curtain HC (two-part): housings



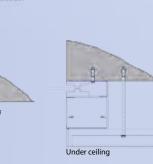
W Clear width

Stoebich Fire & Smoke Curtain H: housings Side gui

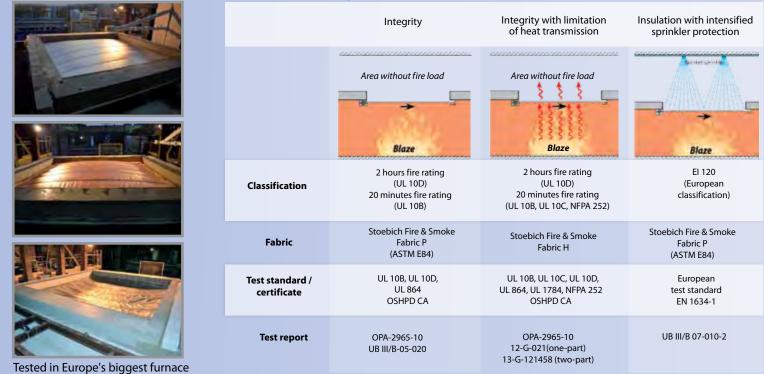




Side guide, bottom bar, feeding edge



Protection targets

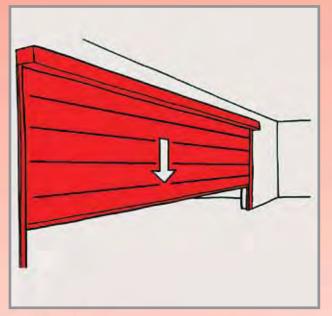


Stoebich Fire Curtain U

First textile fire protection closure in the world, that passed the Hose Stream test according to UL 10B

3.2"

5.7"



System description

- 2 hours fire rating according to UL 10B with Hose Stream test (high stability)
 one-part with a width up to 19' and a large
- drop length up to 15'
- · drive unit with fail-safe technology
- (closing without auxiliary power) · drive unit with 10,000 cycles
- only one drive unit is necessary
- (reduced effort for the installation)





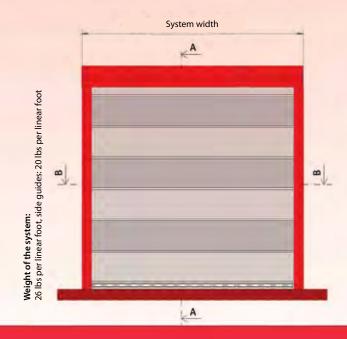
System width	Drop length	w	h
≤ 19'	≤ 15'	10.63"	12.6"

Other configurations and special design on request

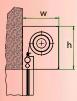
Section A-A

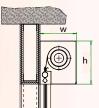
Œ

Drop length



Installation of housings





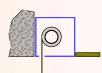
Installation of the housing to the wall

Installation of the housing to the ceiling

Alternatives for the installation



Installation of the housing to the wall, front site run



Installation of the housing to the wall, false ceiling is attached to the housing on one side, front site run

Side guides



Continuous fabric clamping due to side guiding for high pressures and high tightness IN. WOFICIAROVERIOR



Protection targets

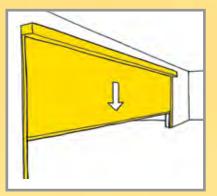


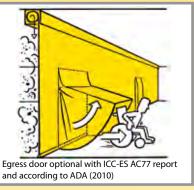
Tested by Intertek in Middleton Wisconsin

Insulation with inten-Insulation with Integrity sified sprinkler protection water film Classification 2 hours fire rating EI 120 EI 120 (UL 10B) (European classification) (European classification) Stoebich Fire Fabric **Stoebich Fire Stoebich Fire** Fabric Herkutex Fabric Herkutex Fabric Herkutex UL 10B (with Hose Stream test), UL 864 OSHPD CA Test standard / certificate **Test report** OPA-2965-10 Water 1" irrigation 20" 20" 20"

Stoebich Fire & Smoke Curtain P

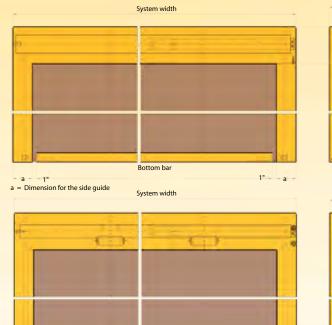
Premium textile fire protection closure for high requirements with large dimensions





System description

- · 2 hours fire rating according to UL 10D
- 20 minutes fire rating according to UL 10B, UL 10C, NFPA 252
- 4 hours fire rating according to European test standard EN 1634-1
- one-part with a width up to 100' and a large drop length up to 30'
- high variability in construction and design
- · drive unit with fail-safe technology (closing without auxiliary power)
- · drive unit with 10,000 cycles
- different protection targets (E, EW, El) by using different types of fabrics (European classification)
- self-leveling bottom bar, safety edge (optional)
- · continuing lateral fixing of the fabric by using the side guides with steel rod
- for large drop lengths, high pressure, high tightness and gentle closing



.

Drop length

Fixed bearing

Fabric	System width	Drop length	w	h
Stoebich Fire & Smoke Fabric H	2.6' - 13'	≤ 6.6'	7.48"	9.84"
Stoebich Fire & Smoke Fabric H	2.6' - 13'	≤ 25'	9.25"	11.41"
Stoebich Fire & Smoke Fabric P	2.6' - 5.2'	≤ 11'	7.48"	9.84"
Stoebich Fire & Smoke Fabric P	5.2' - 13'	≤ 11'	7.48"	7.87"
Stoebich Fire & Smoke Fabric P	2.6' - 13'	11' - 20'	7.48"	9.84"
Stoebich Fire & Smoke Fabric P	2.6' - 13'	20' - 30'	9.25"	11.41"

Other configurations and special design on request Width-to-drop-length ratio: max. 1:3

Floated bearing

Fabric	System width	Drop length	w	h
Stoebich Fire & Smoke Fabric H	13' - 40'	≤ 6.6'	7.48"	9.84"
Stoebich Fire & Smoke Fabric H	13' - 40'	≤ 20'	9.25"	11.41"
Stoebich Fire & Smoke Fabric P	13' - 72'	≤ 11'	7.48"	7.87"
Stoebich Fire & Smoke Fabric P	13' - 72'	11' - 20'	7.48"	9.84"
Stoebich Fire & Smoke Fabric P	13' - 66'	11' - 30'	9.25"	11.41"

Other configurations and special design on request Width-to-drop-length ratio: max. 1:3

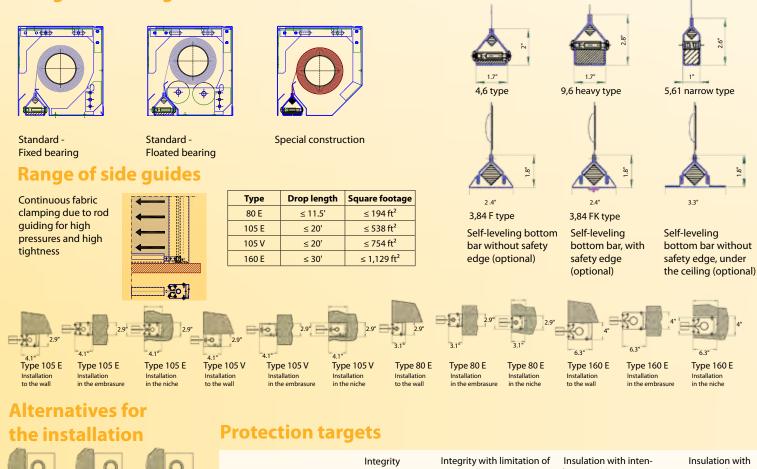


Bottom bar



Drop length

Range of housings



Installation of the housing to the wall, front site run

Installation of the the housing to housing to the wall, false ceiling is attached to the housing on one side, front site run



Installation of the Installation of housing to the wall, false ceiling is attached to the housing on one side, rear site run



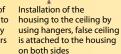
the housing directly to the ceiling both sides

Installation of

the wall, rear

site run

Installation of the housing to the ceiling by using hangers



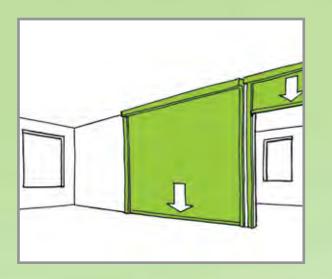


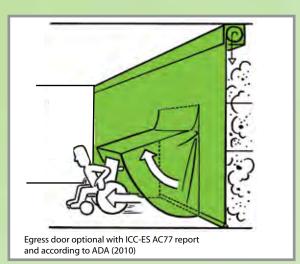
heat transmission sified sprinkler protection water film 2 hours fire rating EI 90, EI 120. EW 90, (UL 10D) Classification EW 120 FI 180 FI 180 20 minutes fire rating (European classification) (European classification) (European classification) (UL 10B, UL 10C, NFPA 252) Installation of the housing directly to the ceiling, false Stoebich Fire & Smoke Stoebich Fire & Smoke Stoebich Fire & Smoke Fabric Stoebich Fire & Smoke ceiling is attached Fabric P Fabric P Fabric P Fabric H to the housing on (ASTM E84) (ASTM E84) (ASTM E84) UL 10B, UL 10C, UL10D European European European Test standard / UL 864, UL 1784, NFPA 252 test standard test standard test standard certificate OSHPD CA EN 1634-1 EN 1634-1 EN 1634-1 UB III/B-08-012 UB III/B-05-006 UU IV/00-39-1 **Test report** OPA-2965-10 UB III/B-07-003 UB III/B-08-016 UB III/B-02-008-1 UB III/B-07-010-2 08/32309876 UB 3.3 / 10-035-1 UB 3.3 / 11-009-1 2011-Efectis-R0495 Water irrigation 31.5" _20"____20"___

Bottom bars

Stoebich Fire & Smoke Curtain E

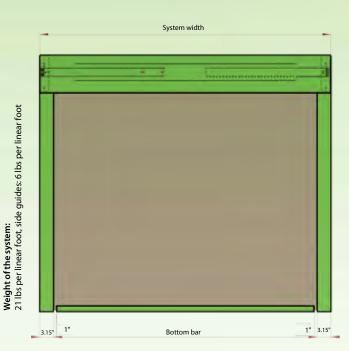
Economical textile fire protection closure with high level of standardization





System description

- \cdot 2 hours fire rating according to UL 10D
- \cdot 20 minutes fire rating according to UL 10B, UL 10C, NFPA 252
- \cdot one-part with a width up to 20' and a drop length up to 26'
- · side guides with bobbins
- \cdot drive unit with fail-safe technology (closing without auxiliary power)
- · drive unit with 10,000 cycles
- \cdot different protection targets (E, EW, EI) by using different types
- of fabrics (European classification)
- · self-leveling bottom bar, safety edge (optional)



-	ч	Fabric	System width	Drop length	w	h
		Stoebich Fire & Smoke Fabric E	3.6' - 20'	≤ 26'	7.87"	8.66"
1		Stoebich Fire & Smoke Fabric E	3.6' - 23'	≤ 16'	7.87"	8.66"
		Stoebich Fire & Smoke Fabric H	3.6' - 13'	≤ 16'	7.87"	8.66"
		Stoebich Fire & Smoke Fabric H	3.6' - 16'	≤ 13'	7.87"	8.66"
		Stoebich Fire & Smoke Fabric H	3.6' - 20'	≤ 10'	7.87"	8.66"

Other configurations and special design on request

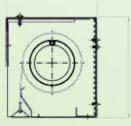
Width-to-drop-length ratio: max. 1:3



Drop lengt

Range of housings

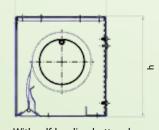
w _



w

Installation to the ceiling

Installation to the wall

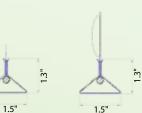


w

With self-leveling bottom bar (optional)

Range of side guides

Bottom bars



Standard design

Self-leveling bottom bar (optional)

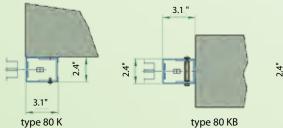
Alternatives for the installation

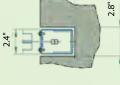


Installation of the housing to the wall, front site run

Installation of the housing to the wall, false ceiling is attached to the

housing on one side, front site run





3.3"

type 80 KB

type 80 KN

Protection targets





Installation of the housing directly to the ceiling





Installation of the

housing directly

to the ceiling, false ceiling is attached

to the housing on

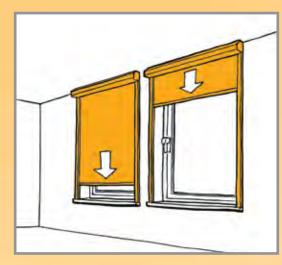
Installation of the housing to the ceiling by using hangers

Installation of the housing to the ceiling by using hangers, false ceiling is attached to the housing on both sides



Stoebich Fire Curtain W

Textile fire protection closure for openings in facades, installation inside a building and for small wall openings

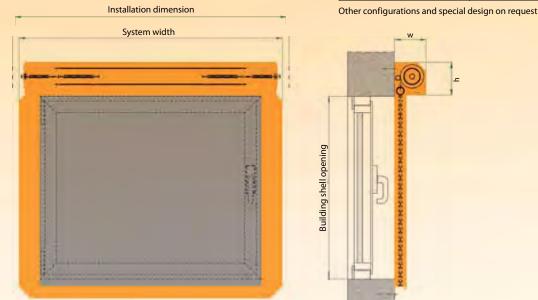


Weight of the system: 14 lbs per linear foot, side guides: 4 lbs per linear foot

System description

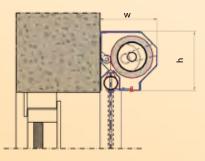
- 2 hours fire rating according to European test standard EN 1634-1 • system width up to 13' (with small drop lengths)
- textile fire protection closure for standard window openings (metal windows require Stoebich Fire Fabric E,
- wooden or plastic windows require Stoebich Fire Fabric H)
- · cost saving solution by a manual re-opening, drive unit (optional)
- · soft bottom bar (to fulfill industrial safety requirements)
- · thermomechanical release, release by fire detection elements (optional)
- · drive unit by a hand wheel respectively hexagon nut, crank handle (optional)
- drop length of max. 3.3' by prevention of a flame flashover over the balustrade

Fabric	System width	Drop length	w	h
Stoebich Fire Fabric E	≤ 1.6'	≤ 1.6'	5.31"	5.51"
Stoebich Fire Fabric E	≤ 4.9'	≤ 6.6'	5.31"	5.51"
Stoebich Fire Fabric E	≤ 5.9'	≤ 5.9'	5.31"	5.51"
Stoebich Fire Fabric E	≤ 7.5'	≤ 3.3'	5.31"	5.51"
Stoebich Fire Fabric E	≤ 13.1'	≤ 3.3'	5.31"	5.51"
Stoebich Fire Fabric H	≤ 1.6'	≤ 1.6'	5.31"	5.51"
Stoebich Fire Fabric H	≤ 4.9'	≤ 4.6'	5.31"	5.51"
Stoebich Fire Fabric H	≤ 5.9'	≤ 4.6'	5.31"	5.51"
Stoebich Fire Fabric H	≤ 7.5'	≤ 3.3'	5.31"	5.51"
Stoebich Fire Fabric H	≤ 13.1'	≤ 3.3'	5.31"	5.51"



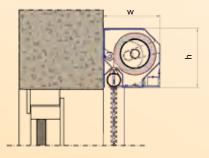
Housings

Bottom bar

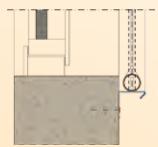


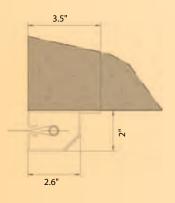
Thermomechanical (standard)

Side guide



Electromechanical (special)





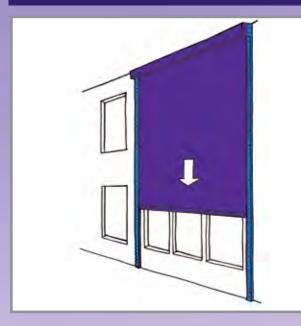
Protection targets

	Integrity	Integrity with limitation of heat transmission	Insulation with intensified sprinkler protection
			An Orector Spectra position
Classification	2 hours fire rating	EW 30 (European classification)	El 120 (European classification)
Fabric	Stoebich Fire Fabric E (ASTM E84)	Stoebich Fire Fabric H	Stoebich Fire Fabric E (ASTM E84)
Test standard / certificate	UL 864, European test standard EN 1634-1	European test standard EN 1634-1	European test standard EN 1634-1
Test report		UB III/B-08-012	UB III/B-08-016
Water irrigation			2 2



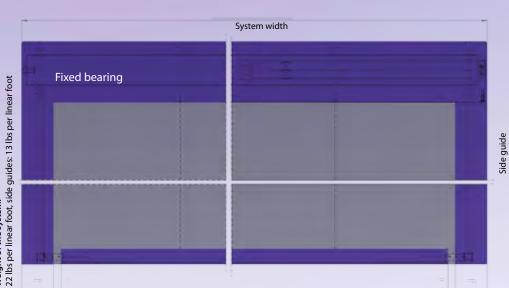
Stoebich Fire Curtain F

Textile fire protection closure for openings in facades and installation outside a building

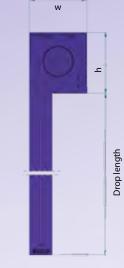


System description

- · 2 hours fire rating according to European test standard EN 1634-1
- · special design for the application under climatic influence
- high variability for installations in facades (noninsulated facades, insulated facades, with combustible or noncombustible insulation)
- \cdot temperature control to avoid the icing of the side guides
- safe drive unit, which guarantee a safe closing even in case of low temperatures
- \cdot proven components for the application outside of a building
- \cdot drive unit with fail-safe technology (closing without auxiliary power)
- \cdot 10 years outdoor weathering test



Bottor



a = Dimension for the side guide

1"

а

Weight of the system:

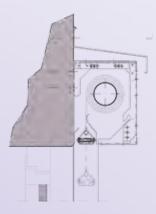
m	n bar		1" a		
	Fabric	System width	Drop length	w	h
	Stoebich Fire Fabric H	2.6' - 16.4'	≤ 6.6'	7.48"	9.84"
	Stoebich Fire Fabric H	2.6' - 16.4'	≤ 16.4'	9.25"	11.4"
	Stoebich Fire Fabric P	2.6' - 5.2'	≤ 11.5'	7.48"	9.84"
	Stoebich Fire Fabric P	5.2' - 16.4'	≤ 11.5'	7.48"	7.87"
	Stoebich Fire Fabric P	2.6' - 16.4'	11.5' - 16.4'	7.48"	9.84"

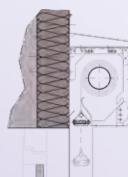
Other configurations and special design on request Width-to-drop-length ratio: max. 1:3

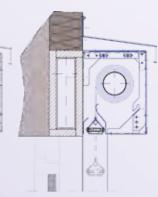


Installation of housings

Bottom bars





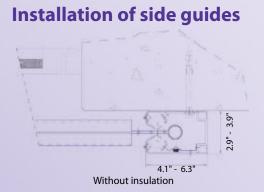


Without insulation

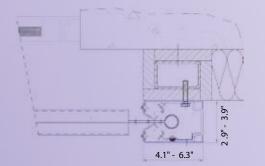
With noncombustible insulation

With combustible insulation

(Alternative solutions are possible in case of closing onto noncombustible materials)



er ".6" 4.1" - 6.3"



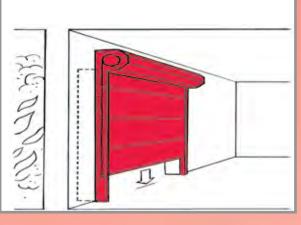
With combustible insulation

Protection targets



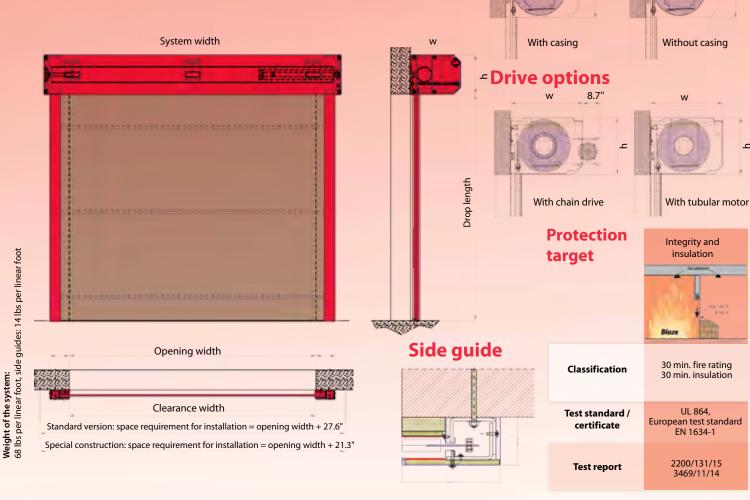


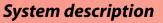
Stoebich Fire Curtain I



System width	Drop length	w	h
≤ 20'	≤ 10'	20.08"	15.75"
≤ 20'	≤ 13'	22.64"	17.72"

Other configurations and special design on request





· 30 min. insulation according to European test standard EN 1634-1

- system width up to 20' and a drop length up to 13'
- · single-layer sealing
- · less space requirements of the housing
- · simple mounting on the wall
- · dry system (no sprinkler necessary)
- · drive unit with fail-safe technology (closing without auxiliary power)

Range of housings

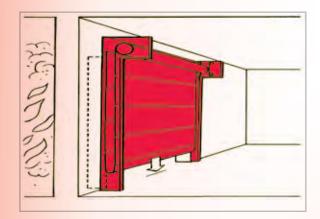
w

_

- emergency opening with battery backup (optional)
- · surveillance of closing edgings and areas (optional)



Insulating textile fire protection closure without sprinkler



System width	Drop length	w	h
≤ 20'	≤ 10'	25.98"	22.05"
≤ 20'	≤ 13'	28.94"	25.59"

Other configurations and special design on request

System width

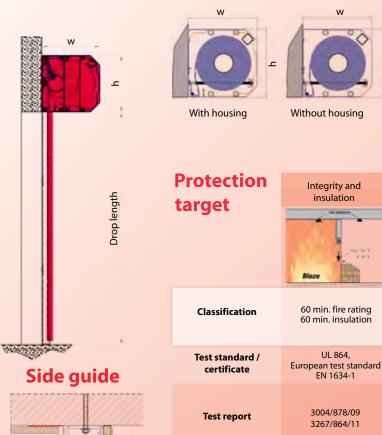
System description

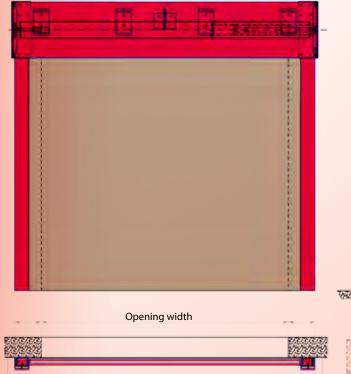
· 60 min. insulation according to European test standard EN 1634-1

- · system width up to 20' and a drop length up to 13'
- · double-layer sealing
- · less space requirements of the housing
- · simple mounting on the wall
- · dry system (no sprinkler necessary)
- · drive unit with fail-safe technology (closing without auxiliary power)

Range of housings

- emergency opening with battery backup (optional)
- surveillance of closing edgings and areas (optional)





Special construction: space requirement for installation = opening width + 23.6"



**Stoebich Fire Curtain **

Withour side guides

h1 b

20.87" 16.34'

16.34

w h

22.64" 16.34"

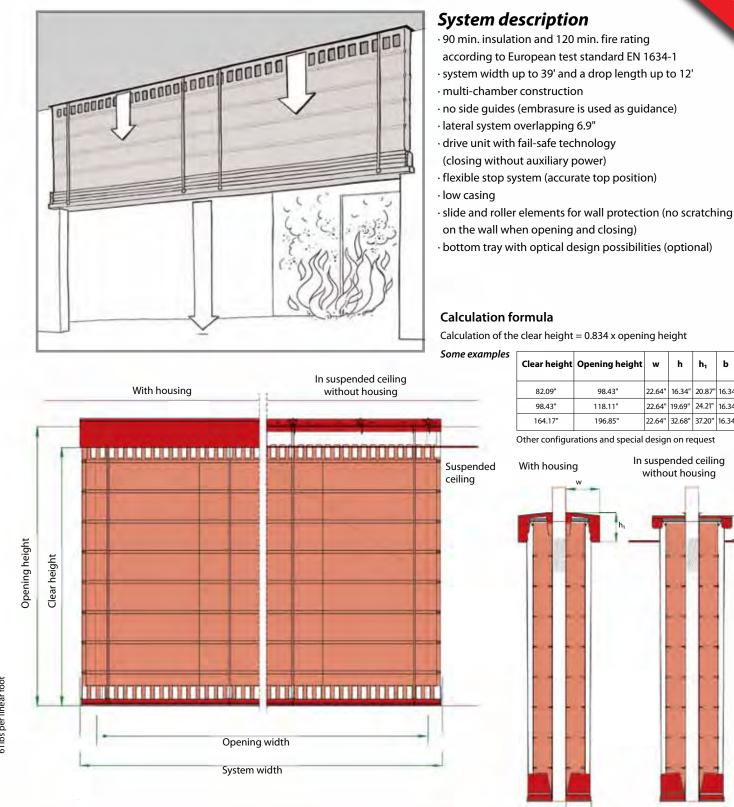
22.64" 19.69" 24.21" 16.34'

b

22.64" 32.68" 37.20"

In suspended ceiling

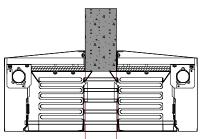
without housing



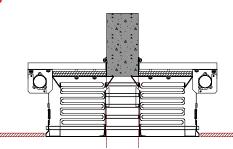


Weight of the system: 61lbs per linear foot

Installation of housings

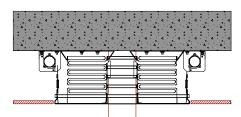


Installation of the housing directly to the wall



Installation of the housing directly to the wall, false ceiling is attached to the housing on both sides

Installation of lightings



Installation of the housing directly to the ceiling

Design of bottom tray



Bottom side coated

Design of embrasure

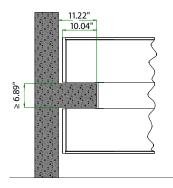
Standard, three-part, paint coated



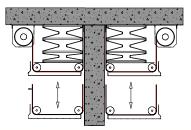




Lateral connection



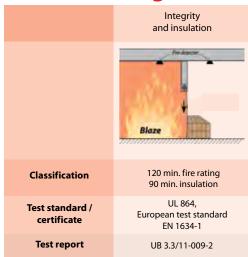
Wall protection



Revolving wall protection - invisible when system is open

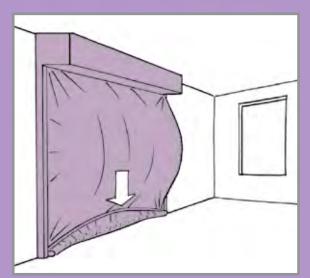


Protection target



Stoebich Fire Curtain T

Tight fire protection closure for high pressure and smoke protection



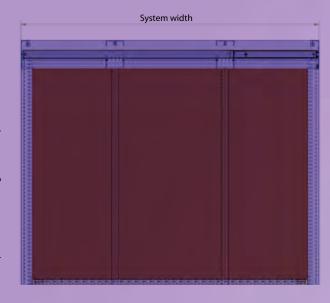
System description

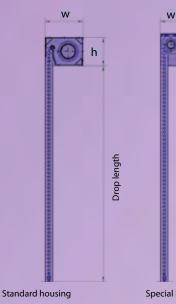
- · 2 hours fire rating according to European test standard EN 1634-1
- system width up to 33' and a drop length up to 20' (Stoebich Fire & Smoke Fabric E) · additional tight smoke protection
- (passive sealing system with noncombustible sealing parts)
- · elastic floor sealing to seal bigger unevenness
- · versatile mounting options
- · drive unit with fail-safe technology (closing without auxiliary power) · drive unit with 10,000 cycles
- · different protection targets (E, EW) by using different types of fabrics (European classification)
- · high quality fabric with silicone coating or with polyurethane coating · safety edge (optional)

Fabric	System width	Drop length	w	h	Housing
Stoebich Smoke Fabric E	≤ 33'	≤ 20'	13.78"	10.24"	standard
Stoebich Smoke Fabric E	≤ 16'	≤ 15'	11.22"	7.87"	special
Stoebich Smoke Fabric E	≤ 11'	≤ 11'	7.48"	11.42"	special
Stoebich Smoke Fabric E	≤ 23'	≤ 16'	11.42"	14.17"	special
Stoebich Smoke Fabric H	≤ 23'	≤ 10.5'	13.78"	10.24"	standard
Stoebich Smoke Fabric H	≤ 16'	≤ 8.2'	11.22"	7.87"	special
Stoebich Smoke Fabric H	≤ 11'	≤ 6,6'	7.48"	11.42"	special
Stoebich Smoke Fabric H	≤ 20'	≤ 9.8'	11.42"	14.17"	special

Housing 11.22" x 7.87" exclusively for ceiling mounting

Other configurations and special design on request





Special housing



Range of housings

Bottom bars Installation of side guides

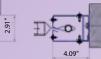














With safety edge

the wall

Installation to

Installation to the embrasure

6

Installation to the nice

Alternatives for the installation

the housing



housing to the wall



Installation of the housing

to the wall; false ceiling is



Installation of the

housing directly



Installation of the

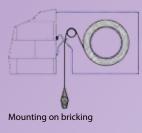


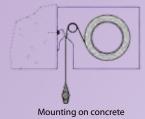




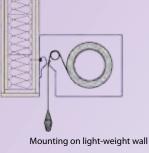
Installation of the housing over a suspension to the ceiling, false ceiling is connected to the housing on both sides without fire protection











Protection targets

Integrity		Integrity with limitation of heat transmission	Insulation with intensified sprinkler protection	
Classification	2 hours fire rating, s ₂₀₀ (European classification)	EW 90, s ₂₀₀ (European classification)	El 120, s ₂₀₀ (European classification)	
Fabric	Stoebich Fire Fabric P Stoebich Fire Fabric E (ASTM E84)	Stoebich Fire Fabric H	Stoebich Fire Fabric P Stoebich Fire Fabric E (ASTM E84)	
Test standard / certificate	UL 864, European test standard EN 1634-1, EN 1634-3	European test standard EN 1634-1, EN 1634-3	European test standard EN 1634-1, EN 1634-3	
Test report	UB III/B-06-15	UB III/B-08-012 UB III/B-06-15	UB III/B-08-016	

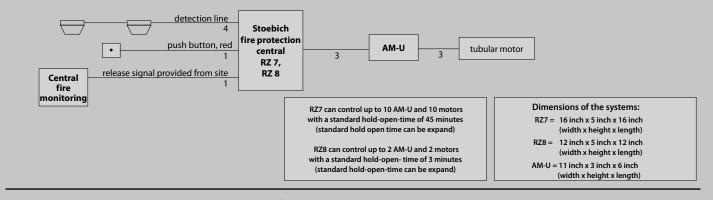


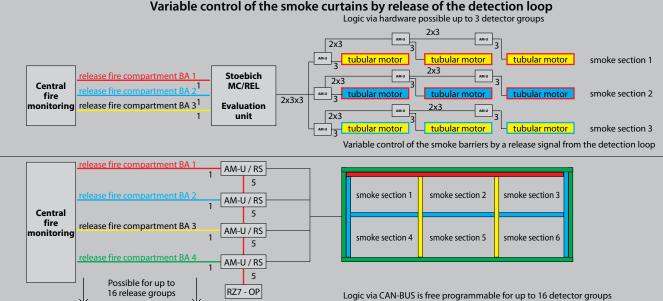
unilaterally connected to to the ceiling

housing directly to the ceiling, false ceiling is connected to the housing on both sides

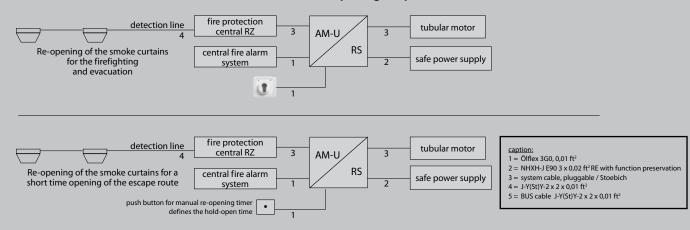
Installation of the housing over a suspension to the ceiling

Control units Variable control of the smoke/fire curtains by release of the detection loop according to **UL 864 RZ 7, RZ 8, AM-U**





Controlled, motor-driven re-opening despite of fire alarm



Tubular motor



Installation situations



from behind

Installation of the casing to the wall,



Installation of the casing to

the wall, from

the front

Installation of the casing to the wall, lower

Design for the steel components

part of the casing is

Coated

Galvanise

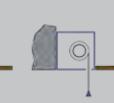
Stainless st

Polished

Circle matt

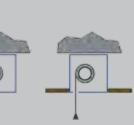
flush on one side with

the casing, from below



Grinded K 240

Installation of the ca-Installation sing to the wall, lower of the casing part of the casing is directly to the ceiling, from flush on one side with the casing, from below behind/from below



Installation of the casing directly to the ceiling, lower part of the ceiling is flush on both sides with the casing, from below



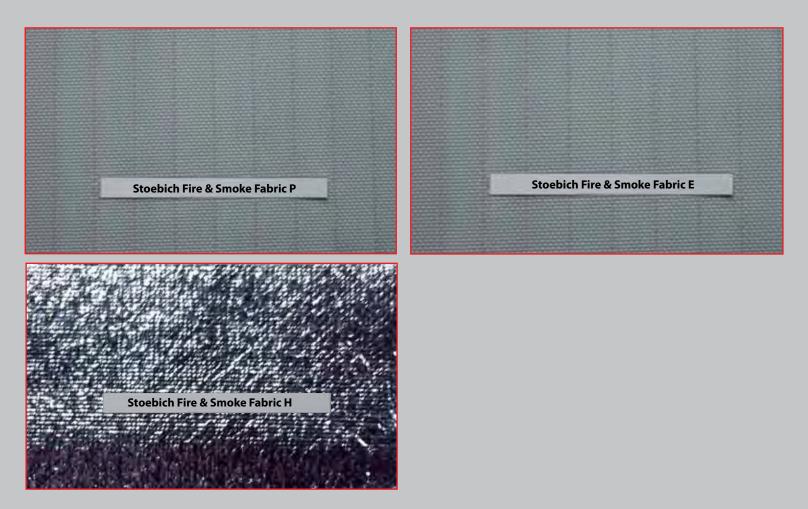
Installation of the Installation of the casing by suspencasing by suspensions sions to the ceiling, to the ceiling, from from behind/from behind/from below below

Fabric - fire behaviour

Standard of the fabric: ASTM E84

For the following fabrics: Stoebich Fire & Smoke Fabric P **Stoebich Fire & Smoke Fabric E**

Selection of fabrics for fire curtains



Our innovation and passion ····· has brought ...

Since 1980 Stoebich Brandschutz GmbH has developed specialized separation technologies able to resist the effects of smoke and fire. Eleven of these are internationally recognized innovations and world novelties.





1993 FIRST SMOKE CURTAIN 0%-LEAKAGE-INSTALLATION



··1996 FIRST FIRE CURTAIN INSTALLATION, BOLTON UK

UNTIL 2016

EXPERIENCED TRENDSETTER

11 world novelties and over 35 years of research, production and installations throughout the world have made us specialists for your protection! We are the most experienced and most innovative company in the market - Stoebich the Original!

BASED IN CHARLESTON, SC THROUGHOUT THE USA AND CANADA

Based in Charleston, SC and throughout our North American distributor network we provide high quality fire protection based on German engineering. No higher accolade than being imitated, .. but never accomplished





Stoebich Fire Protection Systems LP 1941 Savage Road / Suite 200 B Charleston SC 29407 / United States Office 843 203 4999 Service 843 327 8968 info@stoebich.us, www.stoebich.us