

Fire- & smoke- tight sliding door FST
High quality for demanding architecture



Fire- & smoke- tight sliding door FST EPD and ISO certification



**EPD Feuerschutz- und Rauchschutz-
Schiebetore Kurzfassung**
Environmental Product Declaration
nach DIN ISO 14025 und EN 15804

**Feuerschutz- und Rauchschutz-Schiebetore aus Stahl und Edelstahl
(Firmen-EPD)**
Tortec Brandschutztor GmbH

Deklarationsnummer
EPD-FTO-0.7
Juni 2012

ift
ROSENHEIM

ZERTIFIKAT

Umweltmanagementsystem DIN EN ISO 14001:2009
Energienagementsystem DIN EN ISO 50001:2011
Arbeits-/Gesundheitsschutz Managementsystem BS OHSAS 18001:2007

Unternehmen
Tortec Brandschutztor GmbH
Imling 10
A 4902 Wolfsegg

Geltungsbereich
Entwicklung, Herstellung und Vertrieb von:
Brandschutztüren und Brandschutztores aus Stahl und Edelstahl

Ulrich Giebers
Ulrich Giebers
Institutsleiter
Rosenheim, 19.12.2012

Christian Kehler
Christian Kehler
Leiter der Zertifizierungsstelle

Zertifizierungsinstanz: Oktober 2012, Auditbericht Nr.: 754706/709/2011130
Registrierungsnummer: 12-2009, Gültig bis: 18.12.2015

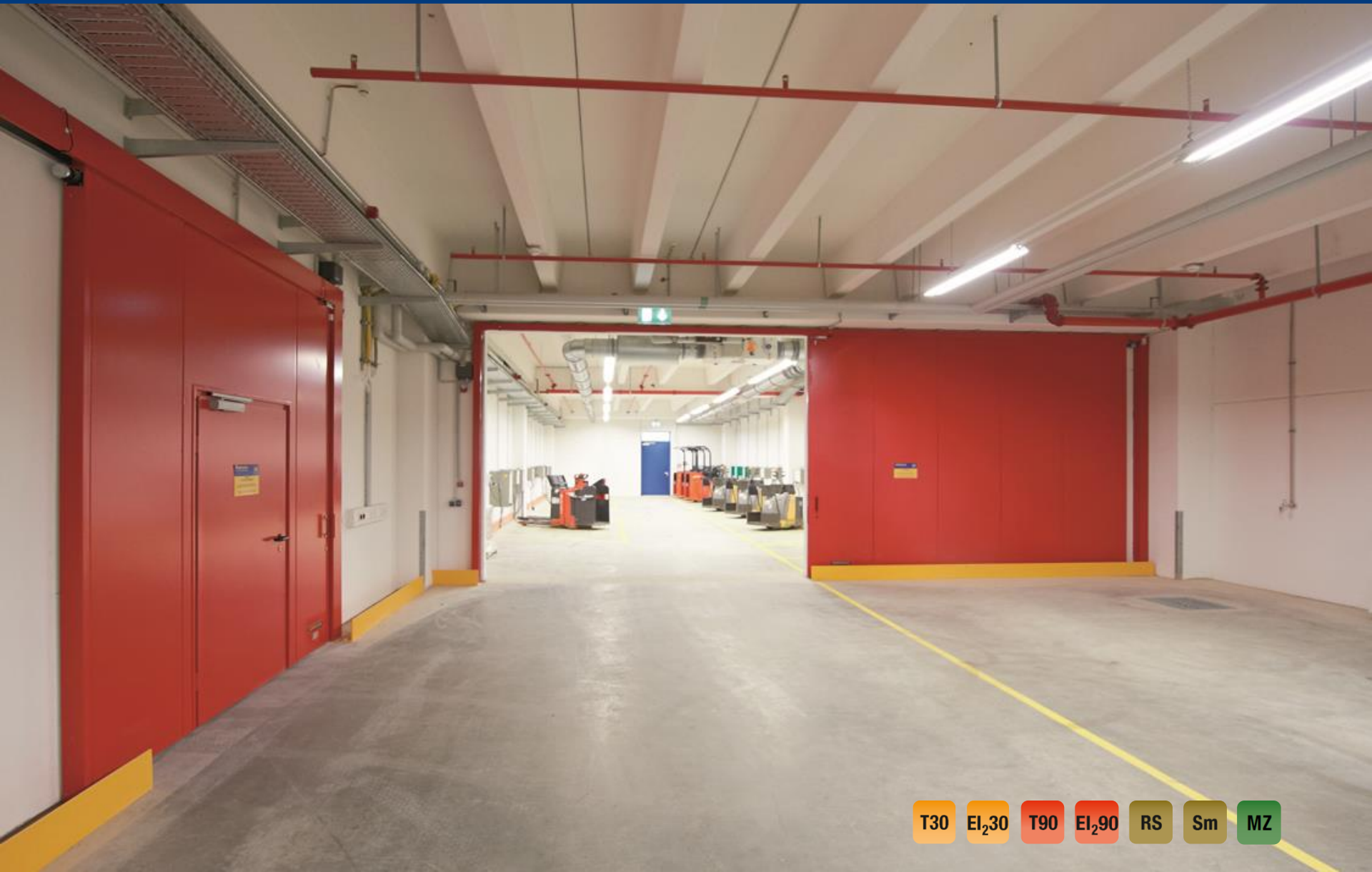
Das Unternehmen ist berechtigt, das
ift-Zertifikat-Zeichen gemäß der
ift-Zertifikatsordnung zu nutzen.

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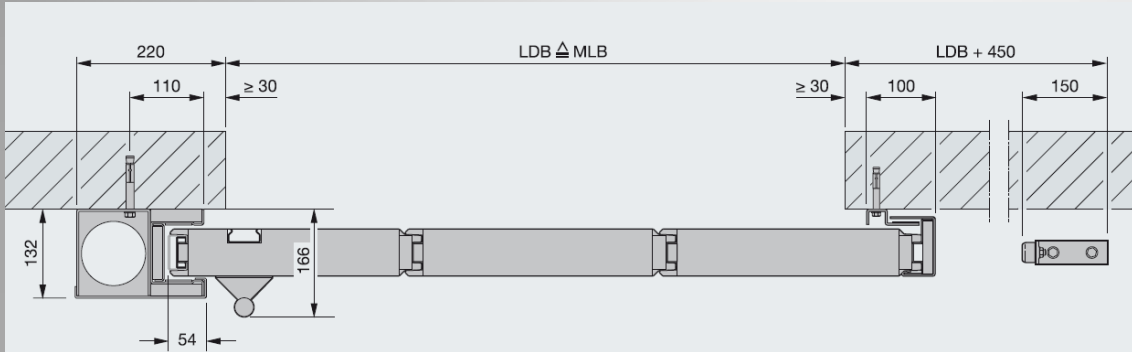
T30 EI₂30 T90 EI₂90 RS Sm MZ

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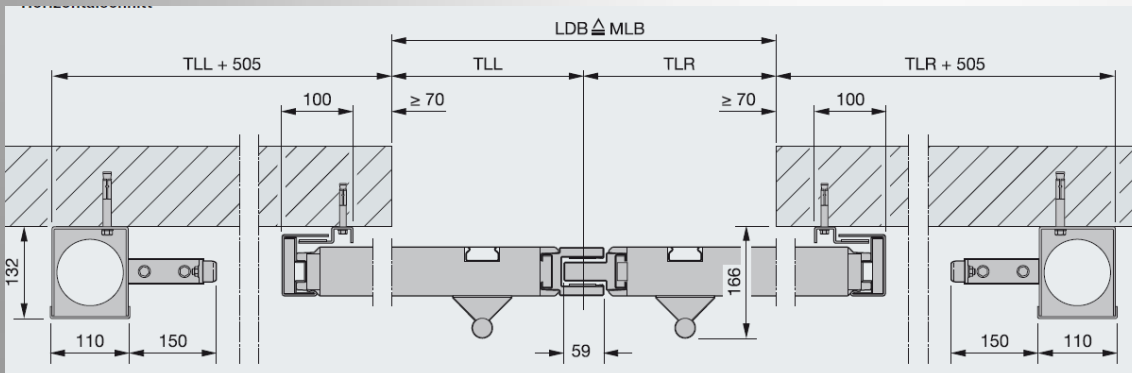
1. Variability



1. Single leaf version – right or left opening



2. Double leaf version – center closing

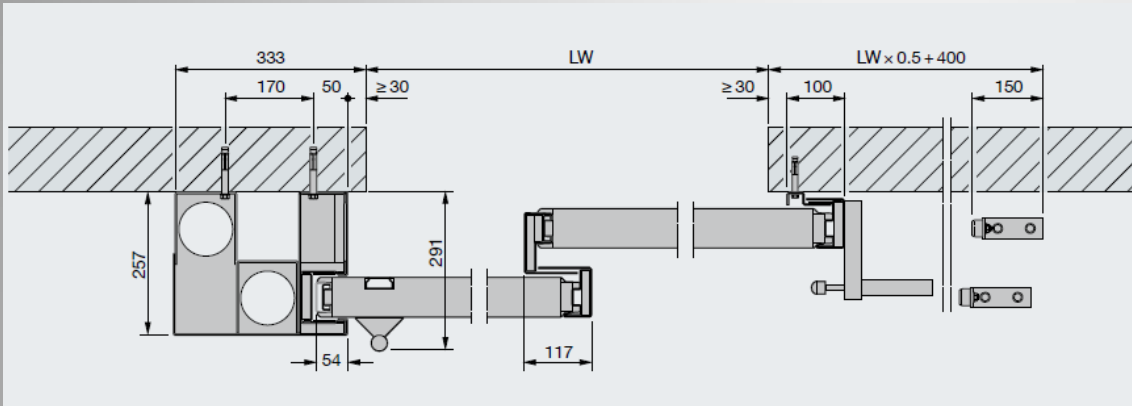


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1. Variability

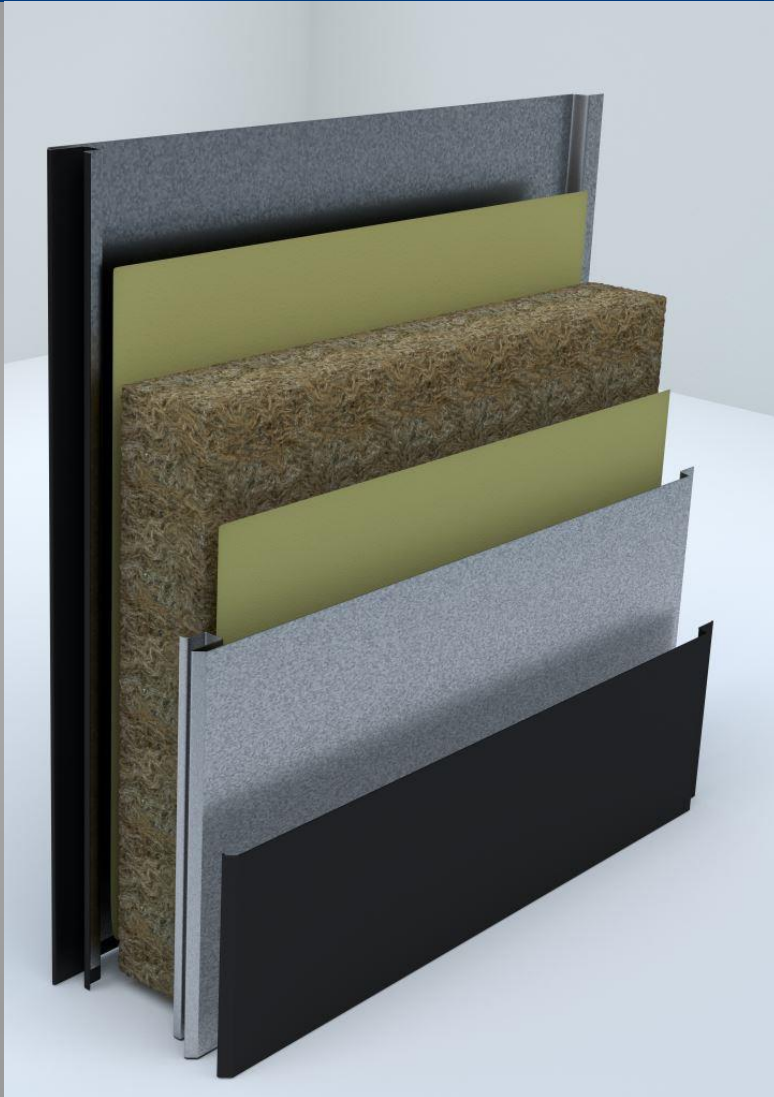


3. 2- wing telescopic version – right or left opening



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2. Door leaf design



Picture 1 : Sectional view of an element

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2. Technical details



- Precise door leaf guide with patented track
- The cylindrical track roller and the stable track roller, in conjunction with the patented track, work together to provide an optimal force balance.
- Quiet operation and easy actuation is ensured, thanks to a suspension with ball-bearing.

Picture 2 : Sectional view of the patented door leaf guide

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3. Door leaf surface finish



1. Pearlgrain surface galvanized



2. Smooth sheet steel, galvanized with optionally coating in 7 preferred colours and in all other RAL colours



3. Stainless steel

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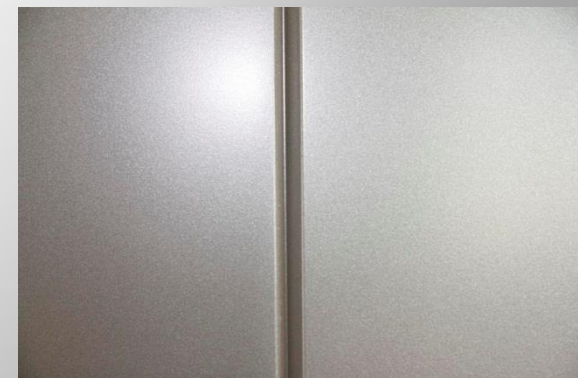
4. Unique features



- Flush and fully bonded elements
- Modern appearance through a patented V groove at element joint without visible screw connections.



Picture 3: Fire- & smoke- tight sliding door in a school building



Picture 4: V- groove

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4. Unique features



- 72mm wide elements T30 (Ei₂ 30), T90 (Ei₂ 90)
- Same appearance T30 (Ei₂ 30), T90 (Ei₂ 90)



Picture 5: Fire- & smoke- tight sliding door with wicket door in a school building

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4. Unique features



- High stability is ensured through the interlocked, toothed labyrinth plug-in profile.
- Timesaving installation by interlocked, toothed labyrinth plug in profile without visible screws
- High-quality overall appearance with the patented groove/spring element connection



Picture 6: Fire-& smoke- tight sliding door in a warehouse coated in RAL 3000



Picture 7: interlocked, toothed labyrinth profile.

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5. Surfaces and colours



- Optical quality surfaces in enable individual solutions in high-quality project sectors



Picture 8: Telescopic sliding door

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5. Surfaces and colours



- Optical quality surfaces in enable individual solutions in high-quality project sectors



Picture 9: 2 Fire sliding doors with wicket door without threshold

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5. Surfaces and colours



- For special requirements a sliding door, including wicket door, can be produced with the pearlgain surface
- This surface is resistant to mechanical damage during operation and fitting.
- The galvanized version is especially suited for use in warehouses and areas with frequent traffic.



Picture 10: Fire sliding door in a warehouse. Optionally the pearlgain surface can be coated in RAL of your choice

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6. Wicket door



- Licensed trip-free wicket doors for smoke-tight sliding doors.
- Two wicket doors per door leaf are possible
- Approved sizes:
T 30 (Ei₂ 30) 1100mm x 2000mm, T90 (Ei₂ 90) 1050mm x 2000 mm
- The wicket door is also available in the pearlgrain surface



Picture 11: Wicket door without threshold



Picture 12: Grip and recessed handles in high-quality stainless steel version as standard

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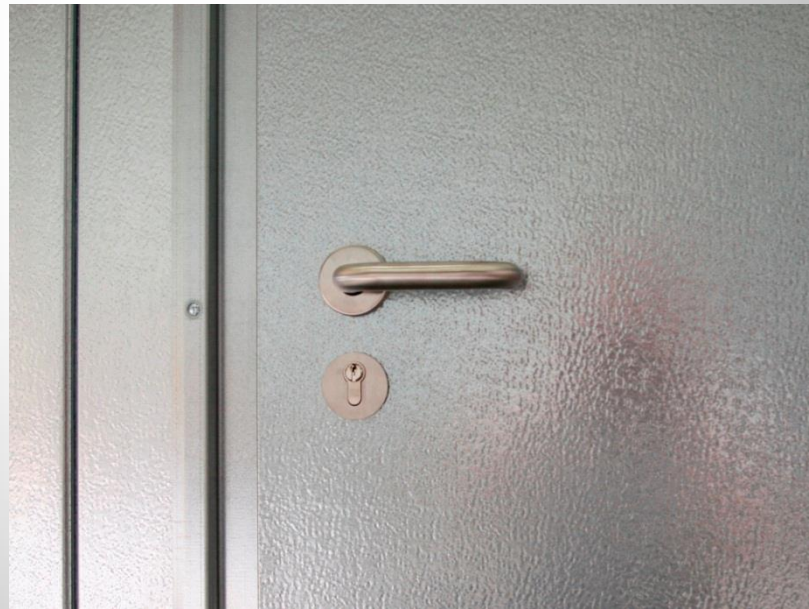
6. Wicket door



- 3-dimensional adjustable hinges
- Optionally concealed magnetic contact with concealed wiring (connection via connection box and spiral cable)
- Rebated door construction without threshold rail
- Wicket door opening in both directions, depending on the source of danger (also in opposite direction of opening)



Picture 13: 3-dimensional adjustable hinges



Picture 14: Optionally: handle in stainless steel

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6. Wicket door



- Optionally: integrated overhead door closer ITS 96



Picture 15: Wicket door with integrated overhead door closer

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7. Glazings



- Glazing in wicket door and door leaf
- Maximum glass size of 500 mm × 1000 mm
- Glazing size: 468 mm × 815 mm (standard)



Picture 16: T 30 (Ei₂ 30) wicket door with glazing



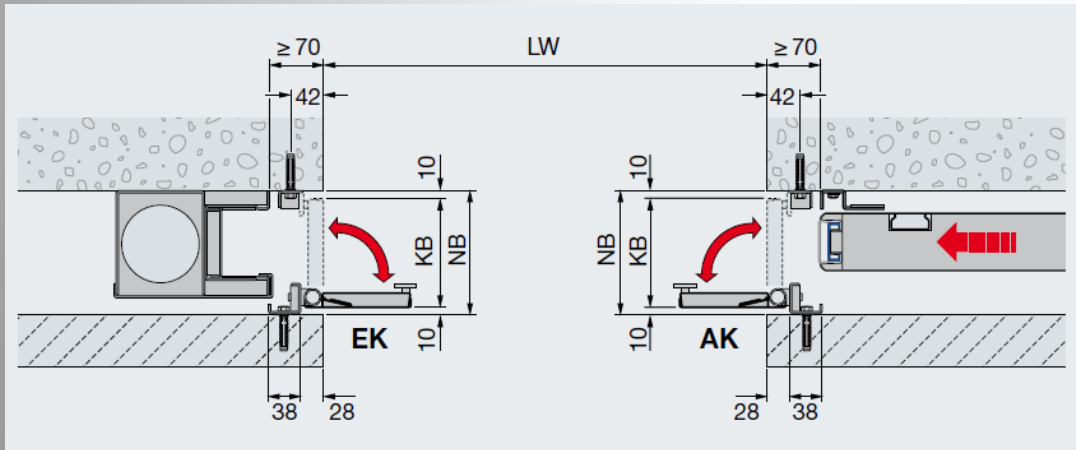
Picture 17: Bullseye glazing

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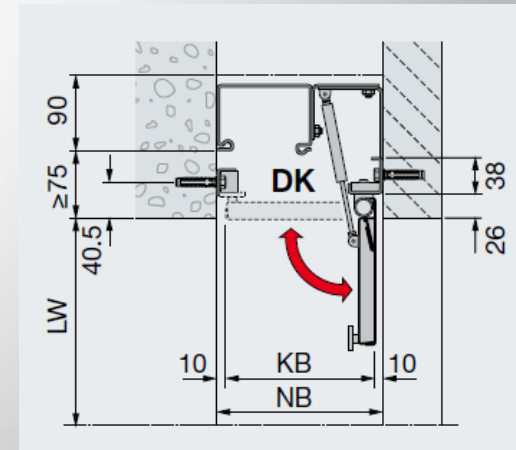
8. Recess and ceiling flaps



- The solution for architecturally demanding areas, in which sliding doors must be inconspicuously integrated
- It is manually closed
- The opening is triggered automatically through a control



Picture 18: Technical detail of recess flaps



Picture 19: Technical details of ceiling flaps

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8. Recess and ceiling flaps



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9. Opening aid



- Automatic door opening with press-and-hold, button operation
- Integrated hold-open device
- With integrated radial damper
- The closing weights close the door
- The opening aid is maintenance-free
- Opening speed: 0,3 – 0,4 m/s



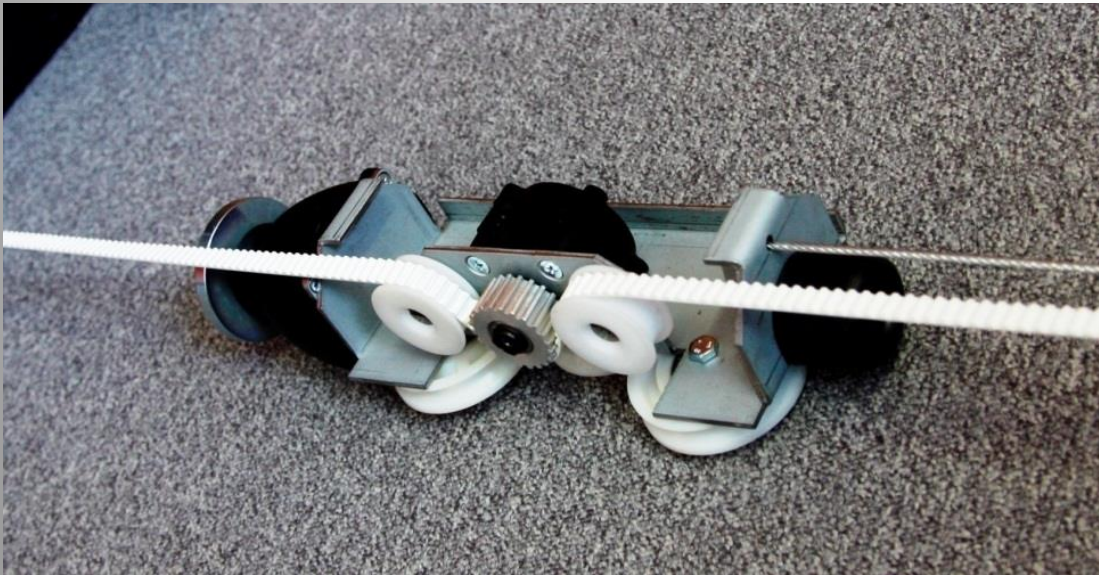
Picture 20: Opening aid

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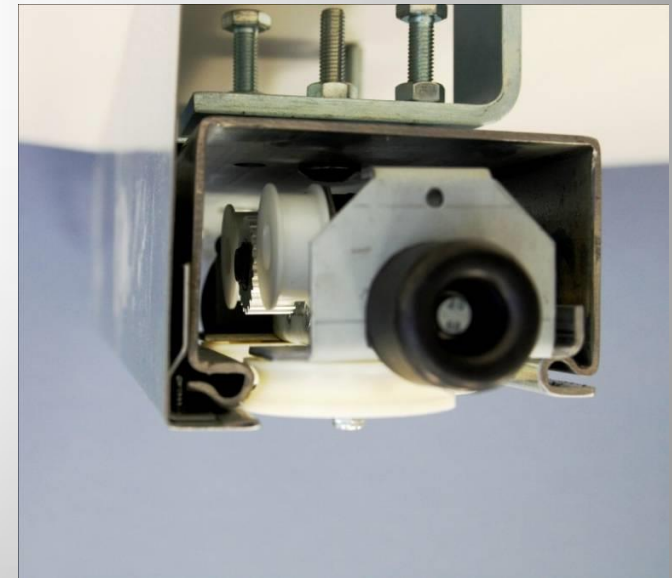
10. Compensator



- The compensator allows for free positioning of the door leaf
- This means the door can be easily opened, even, for example, only halfway, making the door ideal for a fire sliding door that is operated many times each day
- The door closes with the push of a button in the case of fire or automatically in a power failure.
- The radial damper for regulating the required timer speed (5 – 12 cm/s) is integrated in the compensator carriage.



Picture 21: Compensator with integrated radial damper



Picture 22: Compensator with door leaf guide

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11. Minimum wall thicknesses



Brickwork walls according to DIN 1053-1², strength class min. 12, normal mortar \geq II: 175 mm

Concrete walls according to DIN 1045-1, strength class min. C 12/15: 140 mm

Walls made of gas concrete stone slabs or concrete precision blocks according to DIN 41654 part 3, strength class 4: 240 mm*

Walls made of reinforced gas concrete slabs, laid flat or standing, having general official approval, strength class 4.4: 200 mm*

*Only in combination with a steel concrete lintel according to the static proof. The lintel must extend beyond the door opening area in line with the door track length.