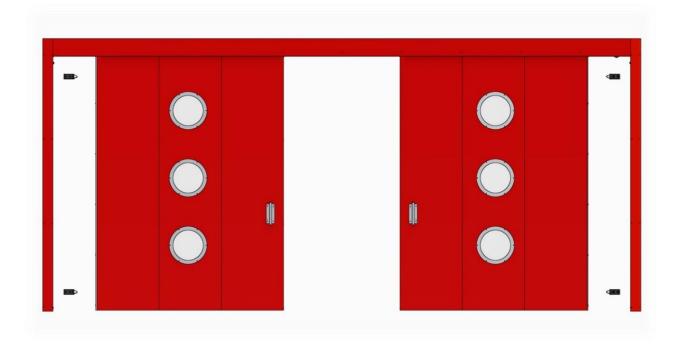
INSTALLATION INSTRUCTIONS



FIRE AND SMOKE BARRIER

"ORPHEUS" Sliding Door

2-leaf - 1-part



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2 Safety instructions

2.1 Symbols



An immediate risk to life and health. Failure to follow these instructions may result in severe harm to the user's health, up to and including life-threatening injuries.



Important instructions regarding proper use of the closure. Failure to follow these instructions may result in malfunctions and/or failure.



Manufacturer's liability arising from errors or omissions on the part of the operator or user excluded.

2.2 Safety instructions



The safety instructions in this document must be obeyed without fail. The wiring diagrams supplied with every control system must be followed. The operating instructions must be taken note of before the control system is used for the first time.



The qualified personnel must be able to assess the work, identify possible safety hazards and take appropriate safety precautions. Personal protective equipment (PPE) must be used. Work areas must be cordoned off where necessary. Work of any sort may only be carried out with the control system disconnected from the power supply.

2.3 Technically correct installation

In order to ensure operational safety and risk-free installation, the user must comply with the points specified in these installation instructions.



All components connected to the system must conform to the approval and/or test report. The use of components that do not meet these requirements is prohibited. Only use original spare parts and approved accessories.



2.4 Safety precautions for installation



Cordon off the work area before installation work commences. Please remember your personal protective equipment, if required.

Danger of death during installation of fire and smoke doors. All components and elements must always be secured against toppling, tipping, falling and crushing before and during installation.

Only use qualified and trained personnel for installation and maintenance. Only have electrical work carried out by qualified professionals who have received training in accordance with current regulations.

Do not make modifications in the form of additions and alterations that could compromise safety.

Eliminate heat-, gas-, dust-, steam-, smoke-, fire- and explosion-related risks during welding, flame cutting and grinding.

Take care that building materials that foam as a result of heat being applied do not react during welding and so become ineffective.

The safety and accident prevention regulations for the specific application must be complied with during installation, commissioning, testing, maintenance and dismantling of the "ORPHEUS" Sliding Door.















2.5 Installer's qualifications

To ensure that the "ORPHEUS" Sliding Door is installed correctly, only **installers trained by the manufacturer** may be used. Depending on local official regulations, electrical components may only be connected by licensed specialist companies or specially trained personnel.

2.6 Safety instructions for operation



Keep the "ORPHEUS" Sliding Door's movement zone clear at all times. Make sure that no one, especially children or objects, is in the movement zone during operation of the "ORPHEUS" Sliding Door. In the event of incorrect use, damage or a dangerous operational state, switch the "ORPHEUS" Sliding Door off and, if necessary, make secure.

Arrange without delay for proper repair, which may only be carried out by qualified personnel.



2.7 Transport instructions



The door elements must always be transported upright. The surfaces and coatings, together with all components, must be adequately protected from damage. Any damage must be reported to the manufacturer immediately and may result in loss of the declared performances.

2.8 Guidance and information

We are delighted that you have chosen one of our quality products. The following instructions are divided into a text section and a drawing section. Please read and follow these instructions. They contain important information on the product. In particular, please obey the safety instructions and warnings. We recommend that you keep these instructions in a safe place.

This document employs the terms door, fire and/or smoke door and sliding door in place of the product name "ORPHEUS" Sliding Door.

The text and drawings in these instructions have been produced with the greatest possible care. For reasons of clarity, it is not possible to provide full details for all the variants or describe all conceivable installation, operation or maintenance cases. The text and drawings published in these instructions only serve as examples.

No responsibility is taken for completeness, which shall not constitute grounds for complaint. Subject to technical changes.

If, however, you require further information or if problems arise that are not covered in sufficient detail in the operating instructions, you may request the necessary information directly from the manufacturer. Contact details can be found on the first page.



3 Installation instructions

3.1 Scope

These installation instructions apply to the following door types:

- _ El₂ 30 C "ORPHEUS" Sliding Door
- _ El₂ 30 C2 "ORPHEUS" Sliding Door
- _ El₂ 30 C2 S_a "ORPHEUS" Sliding Door
- _ El₂ 30 C2 S₂₀₀ "ORPHEUS" Sliding Door
- EI₂ 90 C "ORPHEUS" Sliding Door
- EI₂ 90 C2 "ORPHEUS" Sliding Door
- EI₂ 90 C2 S_a "ORPHEUS" Sliding Door
- EI₂ 90 C2 S₂₀₀ "ORPHEUS" Sliding Door

3.1.1 Intended use

An "ORPHEUS" Sliding Door inclusive of all parts (e.g. frame, guides, etc.) is intended, when installed and closed, to prevent the passage of fire and/or smoke through openings in walls.

Intended use also includes the following points:

- Obey operating and maintenance instructions.
- Obey inspection and maintenance requirements.
- Only operate the "ORPHEUS" Sliding Door in a completely safe condition.
- Have repairs and maintenance on the "ORPHEUS" Sliding Door carried out by the manufacturer or specialist firms only.
- Comply with the relevant national regulations and approvals.

3.1.2 Non-intended use

The "ORPHEUS" Sliding Door is not suitable for the following use:

- As an external door (only under certain conditions and in consultation with the manufacturer)
- As a cold room door
- In wet areas (car washes, etc.)

Neither the manufacturer nor the supplier is liable for damage resulting from non-intended use. The user bears the sole risk. Such damage will result in loss of the declared performance.

3.1.3 Changes to the product

Changes made to the "ORPHEUS" Sliding Door unilaterally will result in immediate loss of the performance designated and/or declared by the manufacturer. Changes may only be made following consultation with and approval by the manufacturer.



3.1.4 Spare parts and accessories

We expressly point out that only **original spare parts** made by Jansen Tore for the product may be used. The replacement of parts with third-party components will automatically result in loss of the product's designated performance characteristics.

The contact details for our service centre are as follows:

Tel: +49 (0) 49 65 / 89 88 - 777 Email: service@jansentore.com

You can find your direct contact at

https://www.jansentore.com/home/ansprechpartner/finden-sie-ihren-ansprechpartner/

3.2 Permissible walls and wall thicknesses

3.2.1 El₂ 30 fire-retardant closures

For a fire-retardant "ORPHEUS" Sliding Door with classification El₂ 30 the following minimum requirements must be met for the declared performance to be retained on site:

		Minimum wall	
Type	Permissible wall type and components - minimum requirements	thickness in	
		mm	
А	Fire-resistant masonry walls in accordance with DIN 1053-1, strength class min. 12,	≥115 mm	
A	mortar group ≥ II wall thickness	2113 111111	
В	Fire-resistant concrete wall in accordance with DIN 1045, min. strength class C12-	≥115 mm	
Ь	15	2112 111111	
	Fire-resistant walls made from aerated concrete, block or high-precision masonry		
C	units in accordance with DIN 4165, strength class 4, or walls made from reinforced	≥175 mm	
	- horizontal or vertical - aerated concrete slabs, in so far as general building inspec-		
	torate approval is available, strength class G4.4		
	Clad steel supports and/or girders in accordance with DIN 4102-4:2016-05 Table		
D	7.6 – with a minimum fire rating of F 30, designation (abbreviated)		
	F 30-A, in so far as they are attached over their full length or width to space-en-		
	closing components with at least the same fire rating.		

Non-conforming installation situations must be agreed with the manufacturer in order for the declared performance to be maintained, where applicable.



3.2.2 El₂ 90 fire-resistant closures

For a fire-resistant "ORPHEUS" Sliding Door with classification El₂ 90 the following minimum requirements must be met for the declared performance to be retained on site:

		Minimum wall	
Туре	Permissible wall type and components - minimum requirements	thickness in	
		mm	
Α	Fire-resistant masonry walls in accordance with DIN 1053-1, strength class min. 12,	≥175 mm	
	mortar group ≥ II wall thickness	21/3	
В	Fire-resistant concrete wall in accordance with DIN 1045, min. strength class C12-	≥175 mm	
	15		
	Fire-resistant walls made from aerated concrete, block or high-precision masonry		
С	units in accordance with DIN 4165, strength class 4, or walls made from reinforced	1 >175 mm	
	- horizontal or vertical - aerated concrete slabs, in so far as general building inspec-		
	torate approval is available, strength class G4.4		
	Clad steel supports and/or girders in accordance with DIN 4102-4:2016-05 Table		
D	7.6 – with a minimum fire rating of F 90, designation (abbreviated)		
	F 90-A, in so far as they are attached over their full length or width to space-en-		
	closing components with at least the same fire rating.		

Non-conforming installation situations must be agreed with the manufacturer in order for the declared performance to be maintained, where applicable.

3.3 Permissible wall connections

The following instructions must be followed for wall connection of the "ORPHEUS" Sliding Door:

- Gap, between seal of door construction and wall, from 1 mm to 9 mm: in this case the seal on the reveal side must be sealed to the wall using a non-shrink method.
- Gap, between profiles of door construction and wall, from 10 mm to 24 mm: these must be filled with mineral wool and then sealed using a non-shrink method.
- Gap, between profiles of door construction and wall, from 25 mm to 50 mm: these must be covered with fire-resistant plasterboard / Promatect H before the respective profiles are fitted and then sealed using a non-shrink method.
- NB: If the seal is in contact with the wall over its full length, sealing using a non-shrink method is not required.



3.4 Permissible fixtures

When using fixtures, the manufacturer's installation instructions must always be followed and given priority. Disregarding these instructions will result in loss of the declared performance.

3.4.1 Attachment of side guiding rails

Wall type	Fixture	Min. load-bearing capacity [F _{rk}]
В	Bolt anchor / through bolt	≥ 1.5 kN
A, B, C	Plastic plug	≥ 1.5 kN
A, B, C	Threaded rod M8 / M10	Strength class ≥ 4.6
А, В	Grout	≥ 1.5 kN, strength class ≥ 4.6
D	Screw installation M8	Strength class ≥ 8.8

3.4.2 Attachment of guide rail (Wall)

Wall type	Fixture	Min. load-bearing capacity [F _{rk}]	
B Bolt anchor / through bolt ≥ 8.5 kN		≥ 8.5 kN	
A, B, C*	Threaded rod M8 / M10	Strength class ≥ 4.6	
A, B* Grout		≥ 8.5 kN, strength class ≥ 4.6	
D	Screw installation M8	Strength class ≥ 8.8	

^{*}Always concrete in opening zone

3.4.3 Attachment of guide rail (Ceiling)

Wall type	type Fixture Min. load-bearing capacity [
В	Bolt anchor / through bolt	≥ 4.3 kN	
В	Screw anchor	≥ 4.3 kN	
D	Screw installation M8	Strength class ≥ 8.8	

3.5 Permissible clearances

Floor gaps can occur when the "ORPHEUS" Sliding Door is installed. According to point 7.3 of DIN EN 1634-1, the test standard for fire and smoke barriers, a general gap of max. 24 mm is permitted at the threshold. In the case of the "ORPHEUS" Sliding Door with an S200 requirement, the seal must be flush with the threshold.

3.6 Permissible floor

The floor must always be at least B1 not easily flammable in accordance with DIN 4102-1.



4 Fitting instructions

4.1 Fitting symbols and abbreviations

The following symbols and abbreviations are used in the fitting instructions:

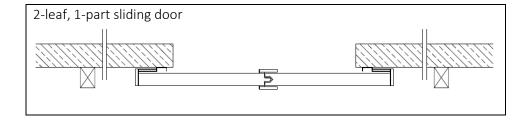
Symbol / Ab- breviation	Meaning	
Components marked with the symbol must be aligned/fitted horizontally		
	Align/fit vertically	
FF	Finished floor level	
СН	Clear height	
CW	Clear width	

4.2 Instructions before fitting starts

Before actual fitting of the door can start, we recommend that you carry out the following steps in order to ensure that everything goes smoothly:

- 1. Read through the full installation instructions
- 2. Identify door's stop side
- 3. Check the ordered dimensions of the door against the structural reality.
- 4. It is recommended that you carry out fitting in the precise order set out below or discrepancies may occur. The manufacturer is not liable for any installation errors.

4.3 Overview



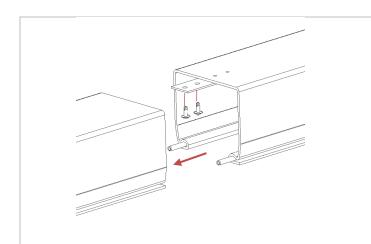


4.4 Fitting the guide rail

4.4.1 Guide rail fitting variants

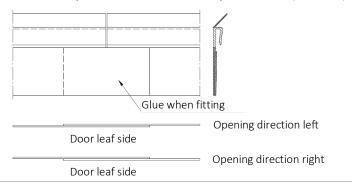
Fire rating	Wall mounting	Flush ceiling mounting	Ceiling mounting
El ₂ 30			
El ₂ 90			

4.4.2 With split guide rail



- Detach premounted connecting plate
 from guide rail, turn and fit as shown in
 illustration
- 2. Connect guide rails using clamping sleeves
- Screw connecting plate to guide rail (2x flathead self-tapping screw ø4.2x13)
- 4. Guide rail pieces must be arranged alphabetically, starting in the centre with A and moving outwards

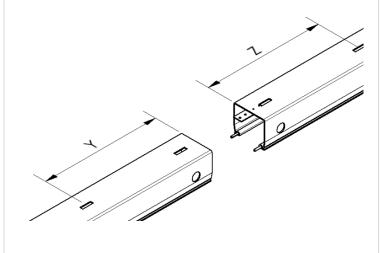
Additionally for door with smoke protection (S_a/S_{200}):



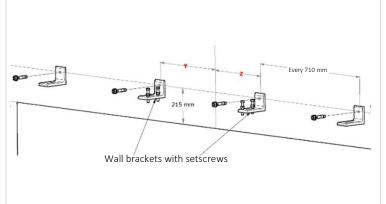
- 5. With a split guide rail, the smoke seal (S_a and S₂₀₀ only) must be glued
- Care must be taken that the door leaf does not hit the blunt edge when closing



4.4.3 For wall mounting of guide rail

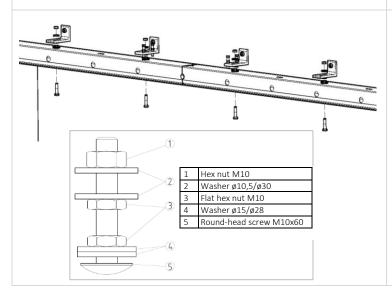


- The horizontal measurement for the position of the first two middle wall brackets depends on dimensions Y and Z
- 8. Measure Y and Z on the supplied guide rail beforehand
- 9. Connect guide rails using clamping sleeves
- 10. Screw connecting plate to guide rail (2x flathead self-tapping screw ø4.2x13)
- **Z, Y** = edge to middle of second cutout



- 11. Mark centre of reveal
- 12. Take basic measurements Y and Z into account for first two wall brackets
- 13. Mark and pre-drill every **710 mm**
- 14. Screw mounting bracket to wall (first of the two guide rails and wall bracket above wall labyrinths with setscrews)
- 15. Align horizontally





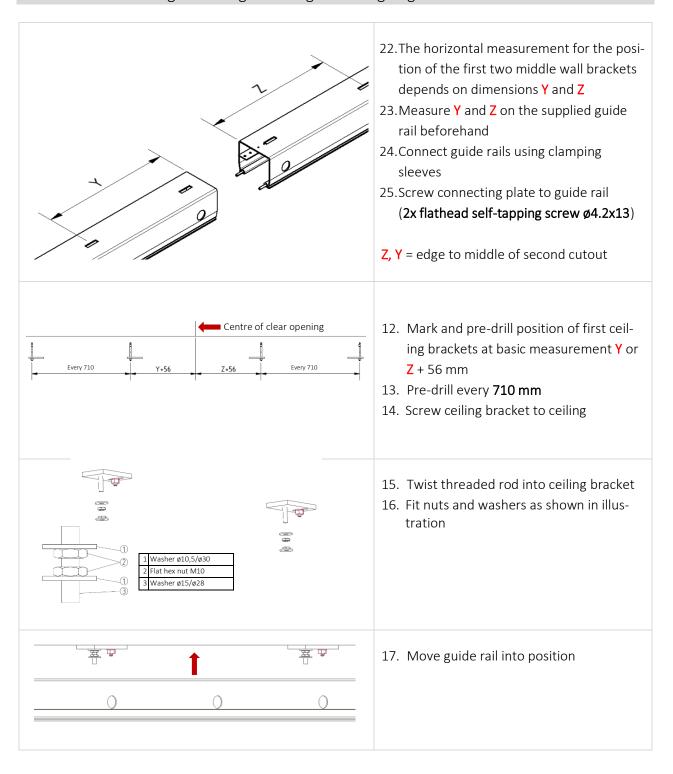
- 16. Screw guide rail to individual wall brackets
- 17. Secure first and last hole in each guide rail first
- 18. Screw wall brackets in between in place
- 19. Align horizontally



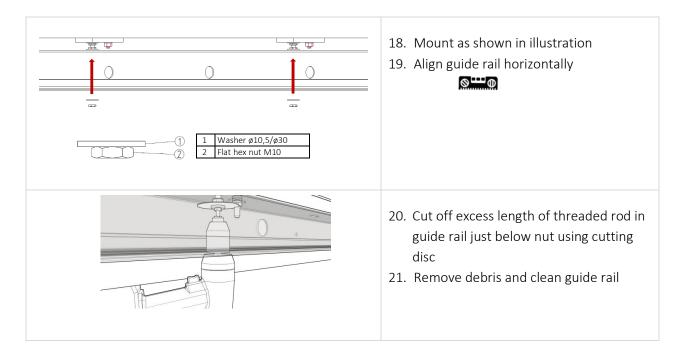
- 20. Height can be adjusted by ±15 mm
- 21. Clean guide rail from inside



4.4.4 For flush ceiling mounting or ceiling mounting of guide rail



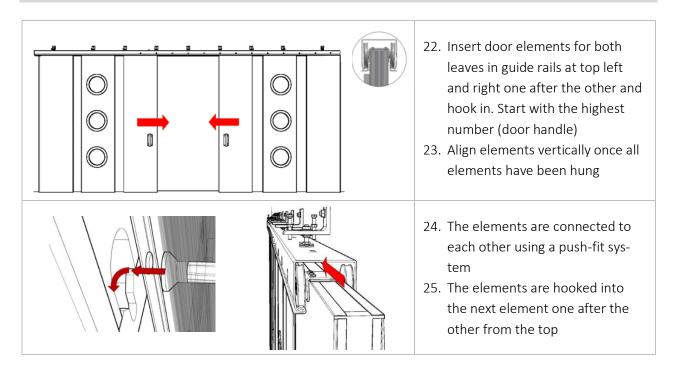




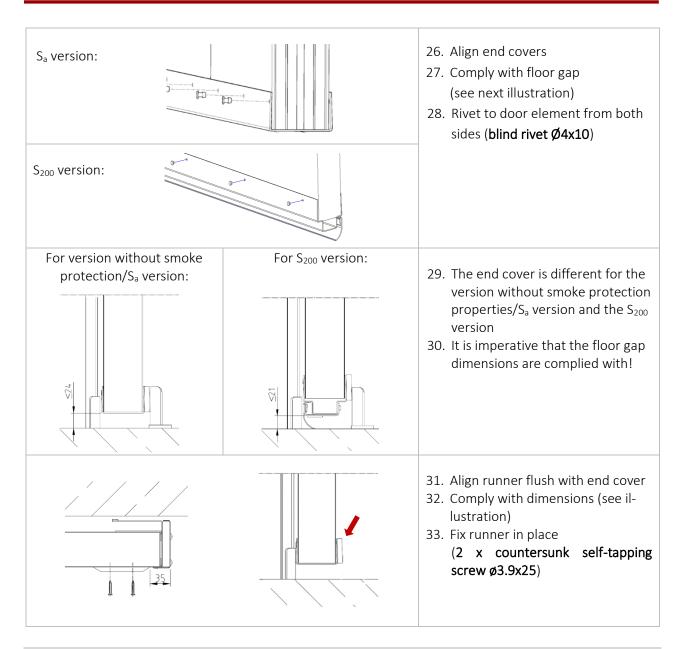
4.5 Fitting the door leaf without wicket

For door with wicket see: Installation Instructions ORPHEUS Sliding Door Optional Wicket

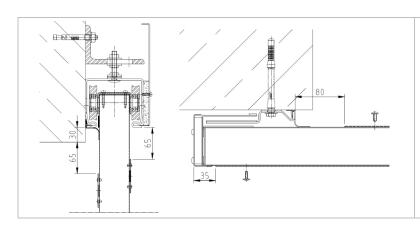
4.5.1 Door leaf







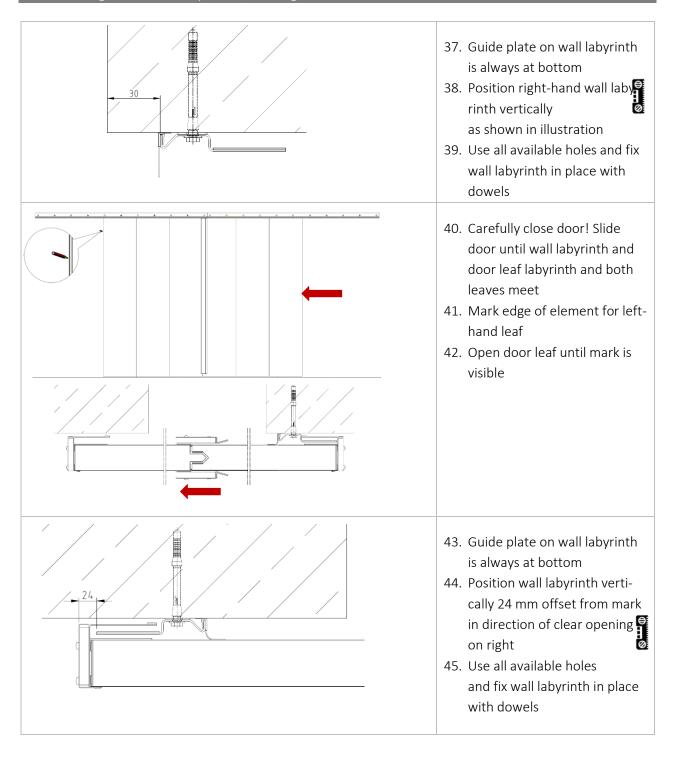
4.5.2 Cleats (EI₂90 closures only)



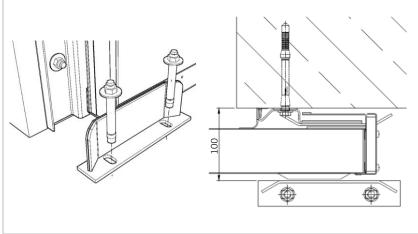
- 34. Align cleat horizontally on both leaves
- 35. Comply with dimensions (see illustrations)
- 36. Rivet in all holes (blind rivet ø4x10)



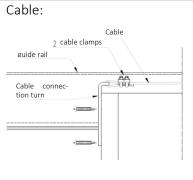
4.6 Fitting the wall labyrinth, floor guide and cable connection

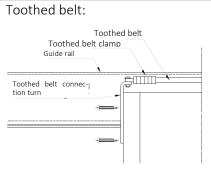






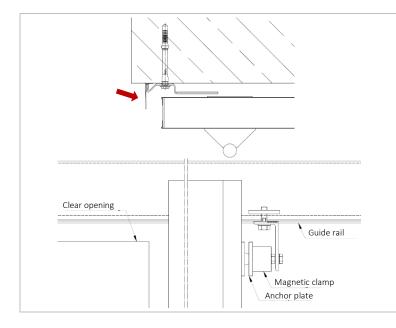
- 46. Floor guides must not protrude into opening
- 47. Floor guides are flush with front edge of wall labyrinth and approx. 100 mm from wall
- 48. Bolt floor guides in place (2x stud bolt W-HAZ-S)
- 49. Promaseal PL strips are enclosed loose for levelling





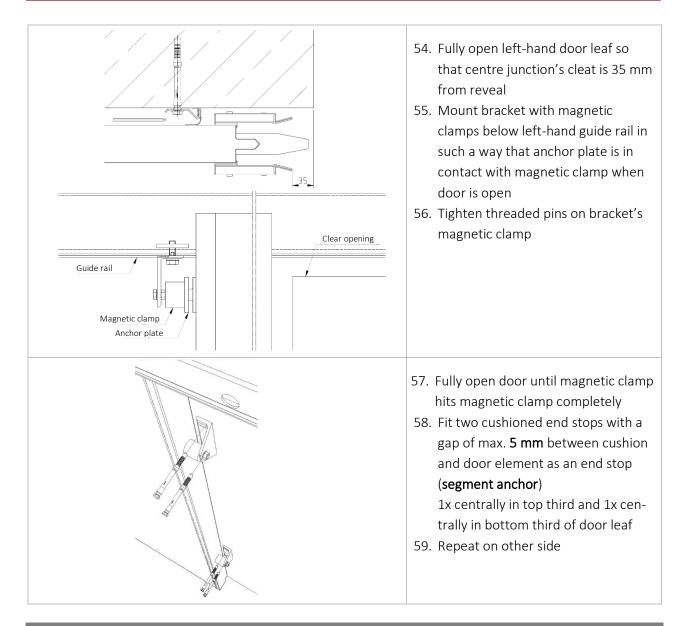
50. Secure cable/toothed belt connection to door leaf labyrinth at pre-drilled position using self-tapping screws provided

4.7 Fitting the magnetic clamp and cushioned end stops

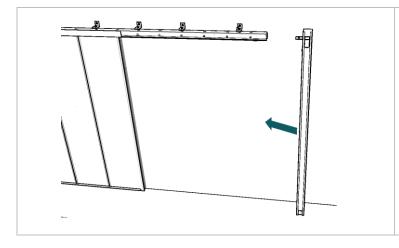


- 51. Fully open right-hand door leaf so that seal on right-hand wall laby-rinth folds back
- 52. Mount bracket with magnetic clamps below right-hand guide rail in such a way that anchor plate is in contact with magnetic clamp when door is open
- 53. Tighten threaded pins on bracket's magnetic clamp





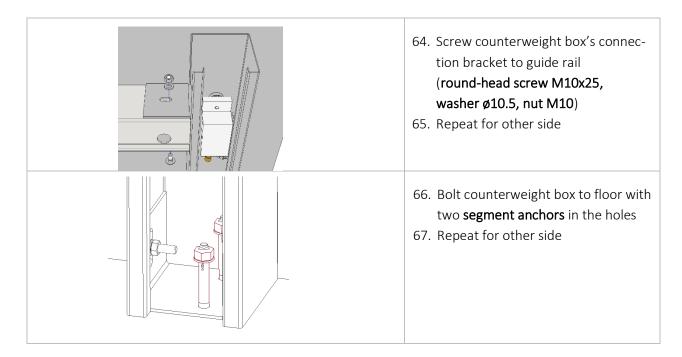
4.8 Fitting the counterweight boxes



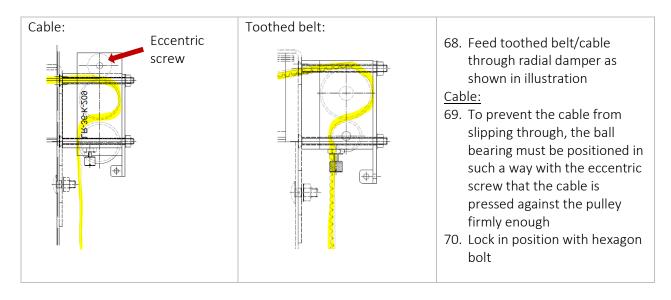
- 60. Detach casing on counterweight box
- 61. Place counterweight box against guide rail
- 62. Align vertically
- 63. Repeat for other side



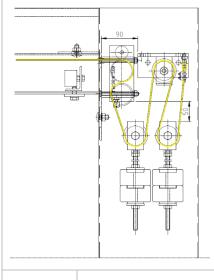


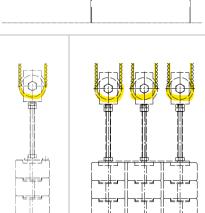


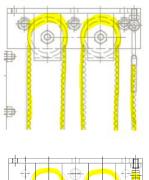
4.9 Fitting the weights and weigh guides

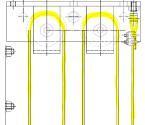






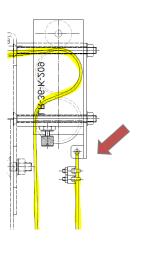




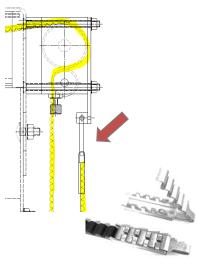


- 71. Position guide roller, if there is one:
 top edge of guide roller flush with top edge of guide rail, 90 mm from connection bracket
- 72. Mark mounting points, predrill and fit guide roller (segment anchor)
- 73. Feed toothed belt/cable through guide roller(s) at weight(s) as shown in illustration
- 74. If there are several weight brackets, the toothed belt/cable must also be fed through the guide rollers on the counterweight box
- 75. The maximum gap between the radial damper and the weights' pulley with the door open is max. 50 mm









76. Cut toothed belt/cable to length

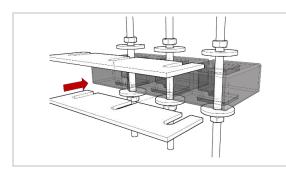
<u>Cab</u>le:

77. Feed cable through mechanism on radial damper or guide roller and secure with two cable clamps

Toothed belt:

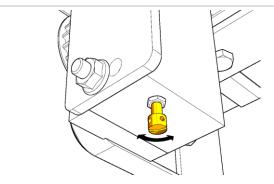
- 78. Secure belt with clamp inc. snap hook
- 79. Hook toothed belt into mechanism on radial damper and/or guide roller via snap hook



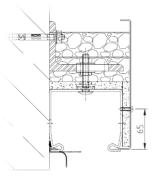


80. If there are several weight brackets, they must be joined by means of a weight connector plate and clipped over the nuts

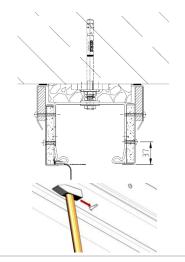
4.10 Fitting the casing, adjusting the radial damper and end positions



Wall mounting every 600 mm, distance from edge = 100 mm



Ceiling mounting every 350 mm, distance from edge = 80 mm

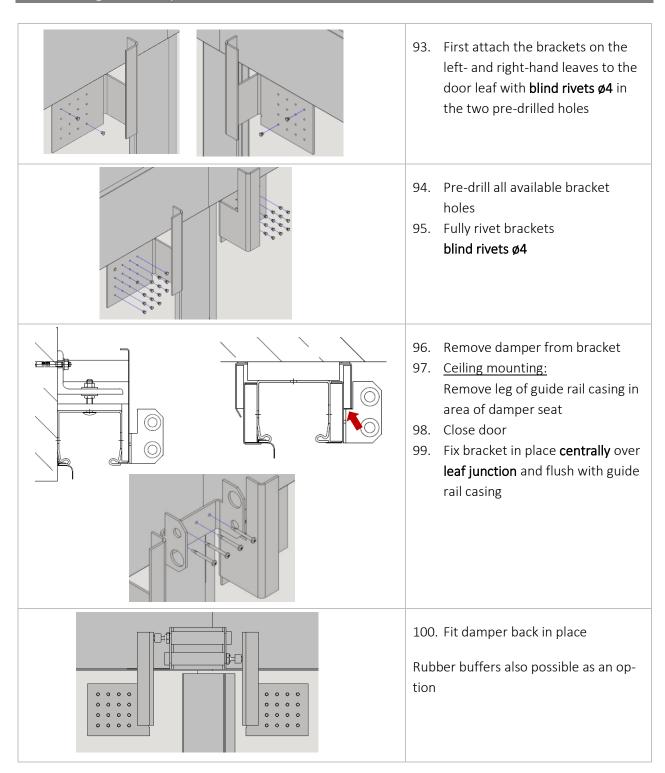


- 81. Open door and allow to close via closing weight
- 82. Adjust closing speed by means of brass screw on radial damper
- 83. Closing speed: **0.3 m/s**
- 84. Open door and allow to close again at least three times. Readjust radial damper if necessary
- 85. For El_2 90 (wall mounting), also fit fire-resistant plasterboard over the guide rail's opening zone
- 86. Fit casing as shown in illustration
- 87. Comply with dimensions (see illustration) and fix in place with **oval-head self-tapping screw Ø4.8x45**
- 88. With ceiling mounting, covers have to be fitted as well: position cover on ceiling and fix in place with **oval-head self-tapping screws Ø4.8x45** in all holes
- 89. Strike screws off from inside
- 90. Clean guide rail
- 91. For El₂ 90 and El₂30 (ceiling mounting only), also put mineral wool over guide rail



92. Screw weight box's cover back on

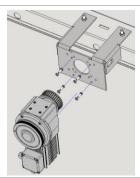
4.11 Fitting the damper unit



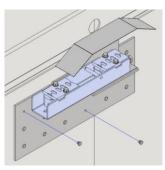


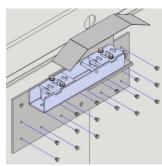
4.12 Fitting the opening assistance

Shown without guide rail casing:

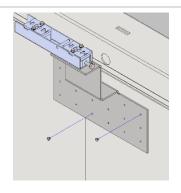


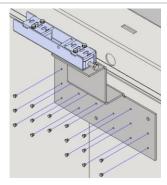
- 101. Remove toothed belt pulley from motor
- 102. Attach motor to premounted bracket (4x hexagon bolt M6x20 + spring washer)
- 103. Attach toothed belt pulley to motor



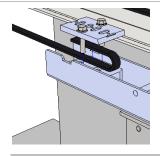


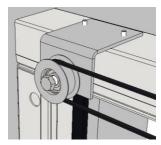
- 104. First attach the toothed belt tensioner bracket on the left-hand leaf to the door leaf with **blind rivets Ø4** in the two pre-drilled holes
- 105. Pre-drill all available bracket holes
- 106. Fully rivet bracket blind rivets ø4





- 107. First attach the toothed belt tensioner bracket on the right-hand leaf to the door leaf with **blind rivets ø4** in the two pre-drilled holes
- 108. Pre-drill all available bracket holes
- 109. Fully rivet bracket blind rivets ø4

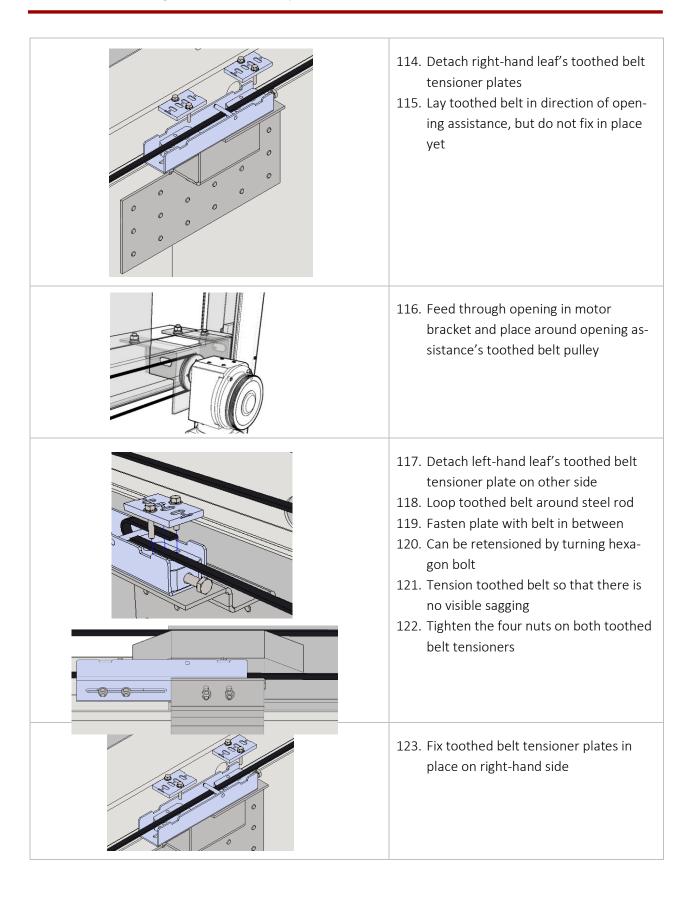




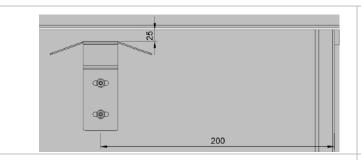


- 110. Detach toothed belt tensioner plate on left-hand leaf
- 111. Make loop with toothed belt
- 112. Fasten plate with belt in between
- 113. Feed toothed belt around guide roller to right-hand leaf's toothed belt tensioner

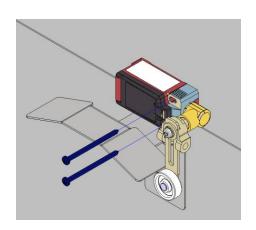






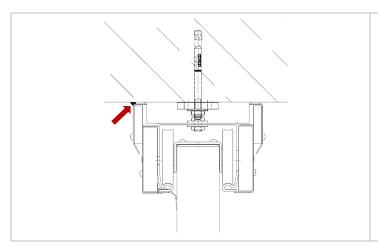


124. Screw limit switch actuation bracket onto door leaf approx. 25 mm from guide rail and approx. 200 mm from edge of door leaf (labyrinth side) (2x 5.5x25 flathead screw)



- 125. Limit switch turns opening assistance off when door is open
- 126. Position limit switch on guide rail casing in such a way that limit switch actuation bracket actuates limit switch when door is opened (2x sheet-metal screw 3.9x60)
- 127. Strike off sheet-metal screws from inside
- 128. Test door for correct functioning
- 129. Door closes by means of counterweights and opens with opening assistance

4.13 Sealing (doors with S_a or S₂₀₀ requirement)



130. In the opening zone the guide rail (attachment to ceiling) must be sealed to the ceiling using a non-shrink method

4.14 Sealing the door

To comply with S_{200} requirements, the door must now be sealed, see: Installation Instructions ORPHEUS Sliding Door Optional Wicket - **Sealing**



4.15 Fitting the electrical components

Directions for fitting the electrical components can be found in the respective manufacturer's installation instructions.

4.16 Function test

4.16.1 Opening and closing process



People, body parts or objects can be trapped by the door elements when the "ORPHEUS" Sliding Door is opening and closing.

- 1. Make sure that there are no people or objects in the "ORPHEUS" Sliding Door's movement zone.
- 2. Check whether the "ORPHEUS" Sliding Door can be fully opened and closed without difficulty and check the end positions
- 3. Check the smoke detector and safety contact strip for correct functioning

4.16.2 Test report

The test report must be completed in full by the expert during commissioning.

4.16.3 Information sign

- 1. Mount the "Fire Barrier" information signs on both sides of the door in such a way that they are clearly visible when the door is open.
- 2. Affix the rating plate in the immediate vicinity of the opening.
- 3. Affix the inspection sticker in the space provided on the rating plate in such a way that the test month is below the arrow. Delete the year dates below that do not apply.

5 Information regarding maintenance

The safety requirements for power-operated windows, doors and gates are laid down in the current EU standards, national standards and the "Guidelines for Power-Operated Windows, Doors and Gates". These guidelines supplement section 9, 10 and 11 of the current Workplaces Ordinance, and section 28 and 29 of the "General Regulations" relating to accident prevention (VBG1). ASR A 1.7 applies to industrial and commercial use as a matter of principle.



5.1.1 Annual maintenance

Statutory maintenance for power-operated doors (in accordance with ASR 1.7) must be performed annually by a competent specialist door company. To prevent damage to the drive technology and door mechanism, the drives and wearing parts (belts, element dogs, bolts, etc.) should be checked and maintained regularly by qualified technicians.

The checks carried out must be documented. This can take the form of entries in a test log or an attached test report, for example. A test seal specifying the next check must also be affixed to the installation where it can be read with ease. Maintenance must not be regarded as equivalent to accident prevention regulation testing.

It is advisable to take out a service contract with the manufacturer, the installer or an establishment with comparable expertise and experience to ensure the upkeep of the installation.

5.1.2 Monthly function testing by operator

According to the guidelines for hold-open systems and requirements in the state-specific Technical Building Regulations, testing of all devices for proper and problem-free interaction and maintenance of the hold-open system must be carried out at least once a year by a competent person. The hold-open system must be kept in working order by the operator at all times and tested at least once a month for correct functioning. This must be documented.

If the "ORPHEUS" Sliding Door suffers malfunctions or damage during operation, you must immediately engage a specialist company to inspect and/or repair it.

The owner or their representative is responsible for service and maintenance of the "ORPHEUS" Sliding Door. Any failure in this respect will result in loss of the declared performance.

To ensure the proper functioning of the "ORPHEUS" Sliding Door, you must carry out and document technically correct maintenance at regular intervals. The guidelines for the inspection and replacement of components can be found in the inspection plan and the operating, maintenance and care instructions.

5.1.3 Cleaning and care

Please note that pressure washers and highly acidic or caustic solutions will damage the surface of the door elements and cause damage to the door system. Such cleaning methods must not be used. Any failure in this respect will result in loss of the product's declared performance.

Only use cleaning materials that have been identified as suitable by the manufacturer. Refrain from vigorous rubbing on the surface.

In order to reduce exposure to corrosion, affected components must be thoroughly cleaned on a regular basis.



5.1.4 Galvanised surfaces

To ensure that galvanised surfaces are looked after properly, the "ORPHEUS" Sliding Door must be cleaned in accordance with the RAL-GZ 632 or SZFF 61.01 regulations at least once a year, and more frequently where there is more severe environmental pollution.

Only use clean cold or lukewarm water and soft, non-abrasive cloths, rags or industrial cotton wool for cleaning. If necessary, stubborn dirt can be removed by adding small quantities of a neutral cleaning agent.

5.1.5 Painted surfaces

Cleaning implements that contain metal will leave rusting particles of tramp iron on the stainless steel rustproof surface, which may lead to corrosion damage. Never use scouring sponges that contain metal, wire wool or wire brushes. Unsuitable cleaning agents can attack and damage the stainless steel rustproof surface. Never use products that contain chloride, especially those containing hydrochloric acid, bleach or silver polish. Clean rustproof surfaces with a damp cloth or leather.

6 Dismantling and disposal

Generally speaking, the "ORPHEUS" Sliding Door is dismantled in reverse order.



All components and elements must always be secured against toppling, tipping, falling and crushing before and during installation.

The door must be fully disconnected from the power supply before dismantling.

The safety and accident prevention regulations that apply to the specific application must be complied with during dismantling.















To ensure proper disposal, the "ORPHEUS" Sliding Door must be separated into its individual components following dismantling and disposed of in accordance with local official regulations.