

# Instructions for Fitting, Operating and Maintenance

## V 3015 CLEAN



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# 1. INTRODUCTION

The operating instructions provide important information representing prerequisites for safe work with and on the industrial door.

Please carefully work your way through the operating instructions before commissioning the Seuster industrial door. Get well acquainted not only with the "Safety" chapter but also with the affixed information signs and their meanings. You must know the arrangements and functions of all the operating elements before you start up the installation for the first time.

When carrying out any work, pay attention to the remarks made in the operating and maintenance instructions.

Furthermore, the existing regulations for accident prevention and environmental protection and the recognised specialist technical rules for safe and proper work must be observed.

Competent operation and careful maintenance have a considerable influence on the performance and availability of your Seuster industrial door. Operating errors and inadequate maintenance lead to avoidable operational faults. Satisfactory, permanent operational reliability is only guaranteed in the case of expert operation and careful maintenance.

The "Operation" chapter includes all the information required for correct operation. It is assumed that the operator already has special knowledge about the industrial door and its possible uses. Our assembly personnel provide instruction after commissioning.

In the "Maintenance" chapter, all the checking and maintenance work is listed and described to such an extent that any mechanic entrusted with maintaining machines can perform the work properly. The maintenance instructions do not represent work instructions in order to carry out more large-scale repairs. Seuster's customer-service department will be happy to carry out this work for you.

Adolf Seuster GmbH is not liable for any damage caused by non-compliance with the operating instructions and with the remarks made therein or by unusual utilisation of the Seuster industrial door.

Seuster's customer-service department will be happy to answer your questions. Contact them if you still have any queries after working your way through the operating instructions.

The illustrations in the operating instructions may deviate from the actual design. This does not alter the factual information content.





**The personnel commissioned to carry out activities on the industrial door must have read the operating instructions and here, in particular, the „Safety“ chapter before starting work.**

## 2. SAFETY

### 2.1 Warning Signs and Symbols

Particular dangers and remarks are highlighted graphically in the text by means of pictographs. The safety-related remarks with a shaded background are repeated in subsequent chapters at the appropriate danger points.

Warning Sign		
General Warning Sign		
 <p>When you see this sign, proceed with particular care. Otherwise, there is danger to life and limb.</p>		
Warning Signs for Specific Dangers		
 <p>Warning of dangerous electrical voltage</p>		

### 2.2 Use in Compliance with the Stipulations

SEUSTER industrial doors are used in order to close throughway openings, to safely shut off rooms, to make machines safe, to save energy costs, to improve the room air conditions and to accelerate the material flow.

Any other or further use is regarded as not in compliance with the stipulations. The manufacturer / supplier is not liable for any damage resulting from this. The risk is borne by the user alone. Use in compliance with the stipulations also includes paying attention to the operating instructions and observing inspection and maintenance conditions.

## 2.3 Organisational Measures



The personnel commissioned to carry out activities on the industrial door must have read the operating instructions and here, in particular, the „Safety“ chapter before starting work.

### Complying with Laws and Regulations

In addition to the operating instructions, generally applicable statutory regulations and other binding regulations for accident prevention and environmental protection must be complied with and instructions must be given with regard to these! This also applies to country-specific regulations which must be observed locally.

### Keeping Operating Instructions Ready to Hand

Always keep the operating instructions ready to hand at the location where the industrial door is used.

### No Conversion Work

Without the supplier's approval, do not carry out any modification, attachment or conversion work on the industrial door which might affect safety!

### No Program Modifications

Do not make any program modifications (software) on programmable control systems!

### Fire Extinguishers

The location and operation of fire extinguishers must be indicated by appropriate information signs! Pay attention to the statutory fire-alarm and fire-fighting regulations.

## 2.4 Selection and Qualifications of Personnel

### *Instructed Personnel*

Deploy only qualified and instructed personnel. Responsibilities for operation, maintenance and repair must be stipulated clearly so that no unclear powers arise with regard to the safety aspect!



#### **Electrical Work only by a Specialist**

Work on the electrical equipment of the machine may only be carried out by electrical specialists and only in the de-energised state (master switch off and mains cable disconnected) in accordance with the electrical regulations.

## 2.5 Safety-Related Remarks for Certain Operating Phases



#### **Operational Shutdown during Work on the Industrial Door**

All the work on the industrial door (such as maintenance and cleaning work and inspections) may only be performed during an operational shutdown.

## **Normal Operation**



### **Exclude Dangers**

Prior to switching on / starting up the industrial door, ensure that nobody can be endangered by the actuation of the industrial door!

## **Only Work when Protective Devices are Present**

Take measures in order to ensure that the industrial door is only operated when it is in a safe and functioning state!

Only operate the industrial door when all the protective devices and safety-related devices (e.g. detachable protective devices and emergency-stop devices) are present and functioning!

Safety devices must not be modified, dismantled or put out of operation.

## **Maintenance Activities and Elimination of Faults**

### **Complying with Inspection Intervals**

The setting, maintenance and inspection activities and intervals stipulated in the operating instructions (including information about the replacement of parts/equipment) must be complied with! These activities may only be carried out by specialist personnel.

### **Original Spare Parts**

Spare parts must fulfil the technical requirements stipulated by the manufacturer. This is always guaranteed in the case of original spare parts

## 2.6 Remarks about Particular Types of Danger

### Gas, Dust, Steam and Smoke

#### Excluding the Risk of Fire and Explosion

Only carry out welding, burning and grinding work on the industrial door when this work has been expressly approved. For example, there may be a risk of fire and explosion!

#### Cleaning and Venting Beforehand

Prior to welding, burning and grinding, remove dust and combustible materials from the industrial door and its surroundings and ensure that there is adequate ventilation (risk of explosion)!

### Pneumatics:



#### **Depressurise Components Beforehand**

Before the repair work is started, depressurise system sections and pressure pipes according to the descriptions of the components!

## **3. A S S E M B L Y**

- 3.1. Before Starting Assembly
- 3.2. Setting up the Side Frame
- 3.3. Assembly of barrel and drive unit
- 3.4. Assembly of barrel and motor canopy
- 3.5. Commissioning
- 3.6. Dismantling

### 3.1. Before Starting Assembly:

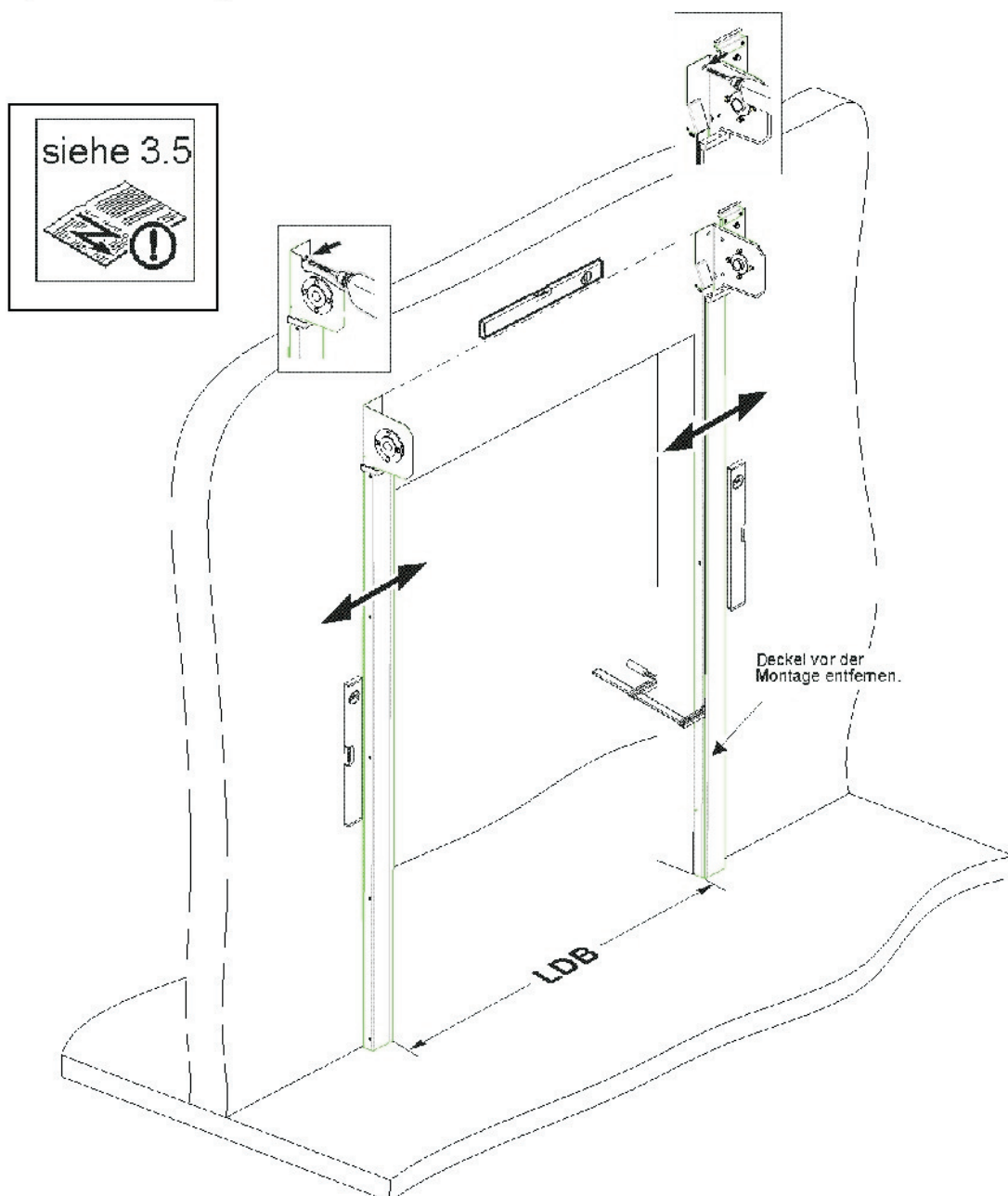
- Take all the precautionary measures in order to make the site safe
- Check the door installation conditions
- Check the quality of the structure for its strength
- Choose suitable fastening material
- Unpack the door and check it for damage

IN CASES OF DELIVERY BY A FREIGHT FORWARDER -  
REPORT DAMAGE IMMEDIATELY

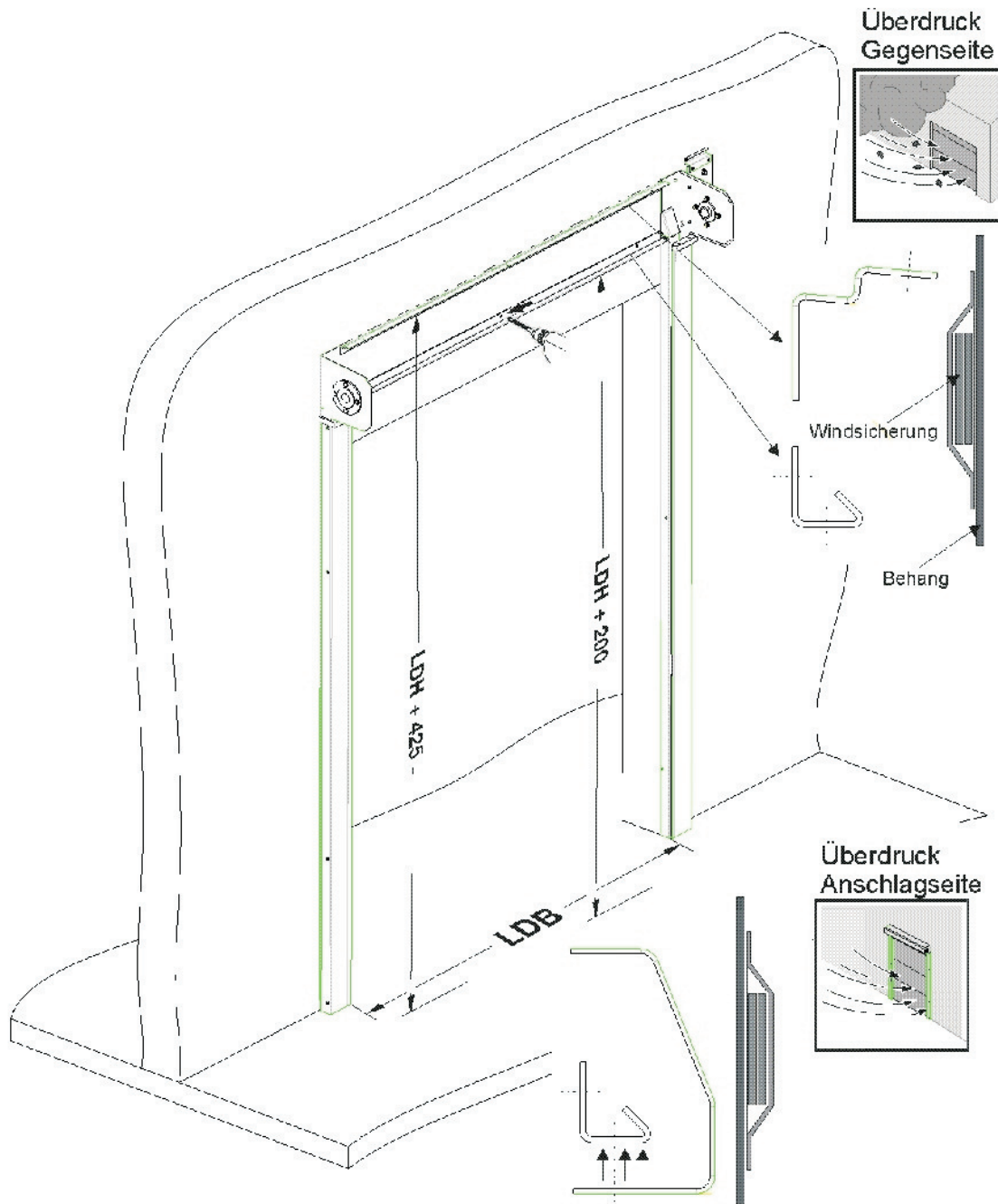
- Dispose of packaging material
- Check that the delivery is complete:
  - 2 side frames
  - 1 top roller with PVC curtain and bottom rail
  - 1 box with hardware and drive

## 3.2. Positioning of the side guides:

- Position the side guides of motor and bearing side exactly on the measurement of the clear opening, adjust perpendicular and bring the side guides to exactly the same height.
- carry over the fixing holes to the structure.



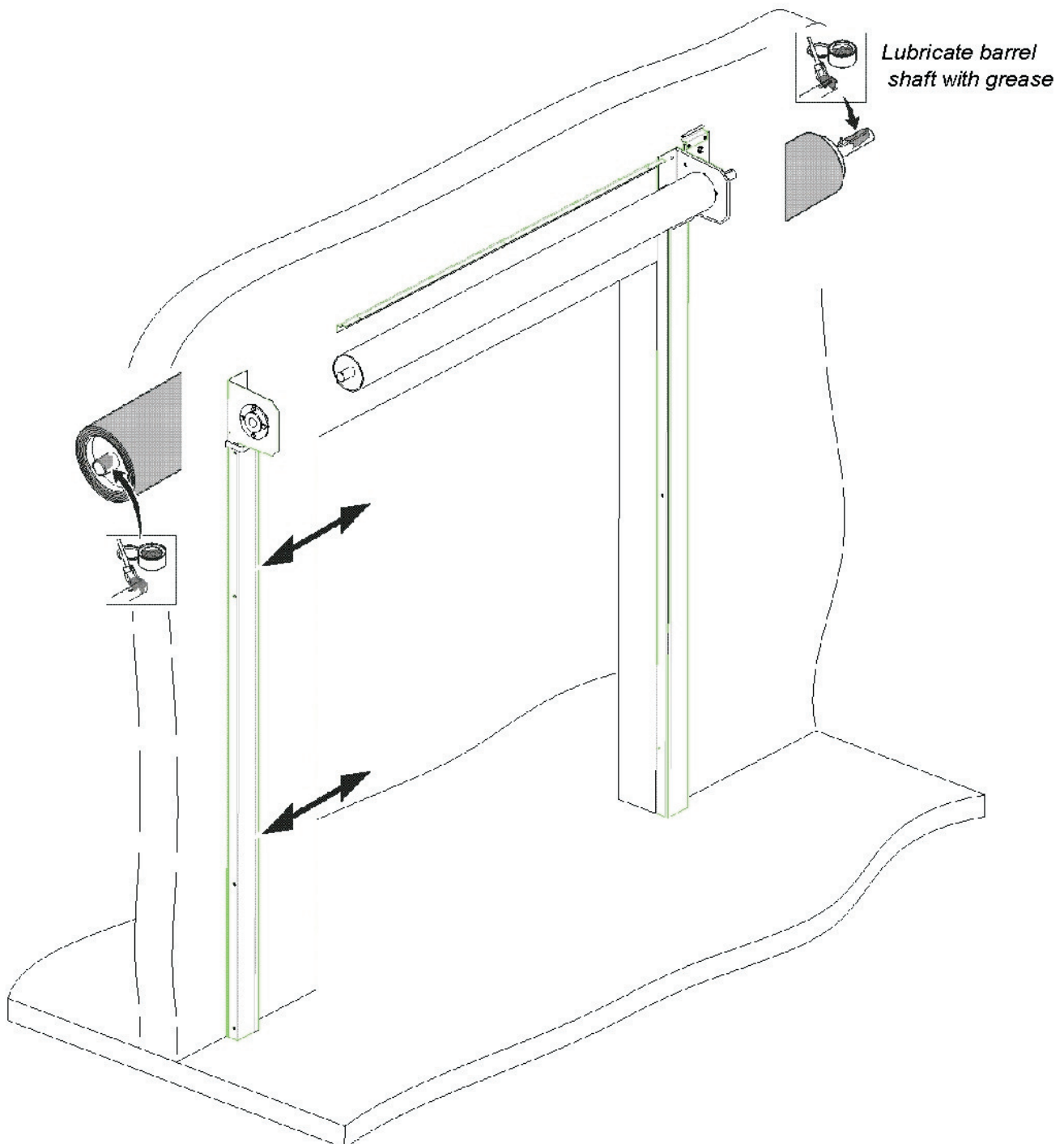
- Carry over the fixing holes of the angle „wall fastening“ and „canopy sealing“ to the structure as well. The length of the angles is equal to the clear opening size of the door. You can find the angles loosely enclosed to the barrel canopy.
- Drill fixing holes into the structure.
- Mount, adjust and fasten the angles „wall fastening“ and canopy sealing“ (you can find screws and dowels in the accessories plastic bag).



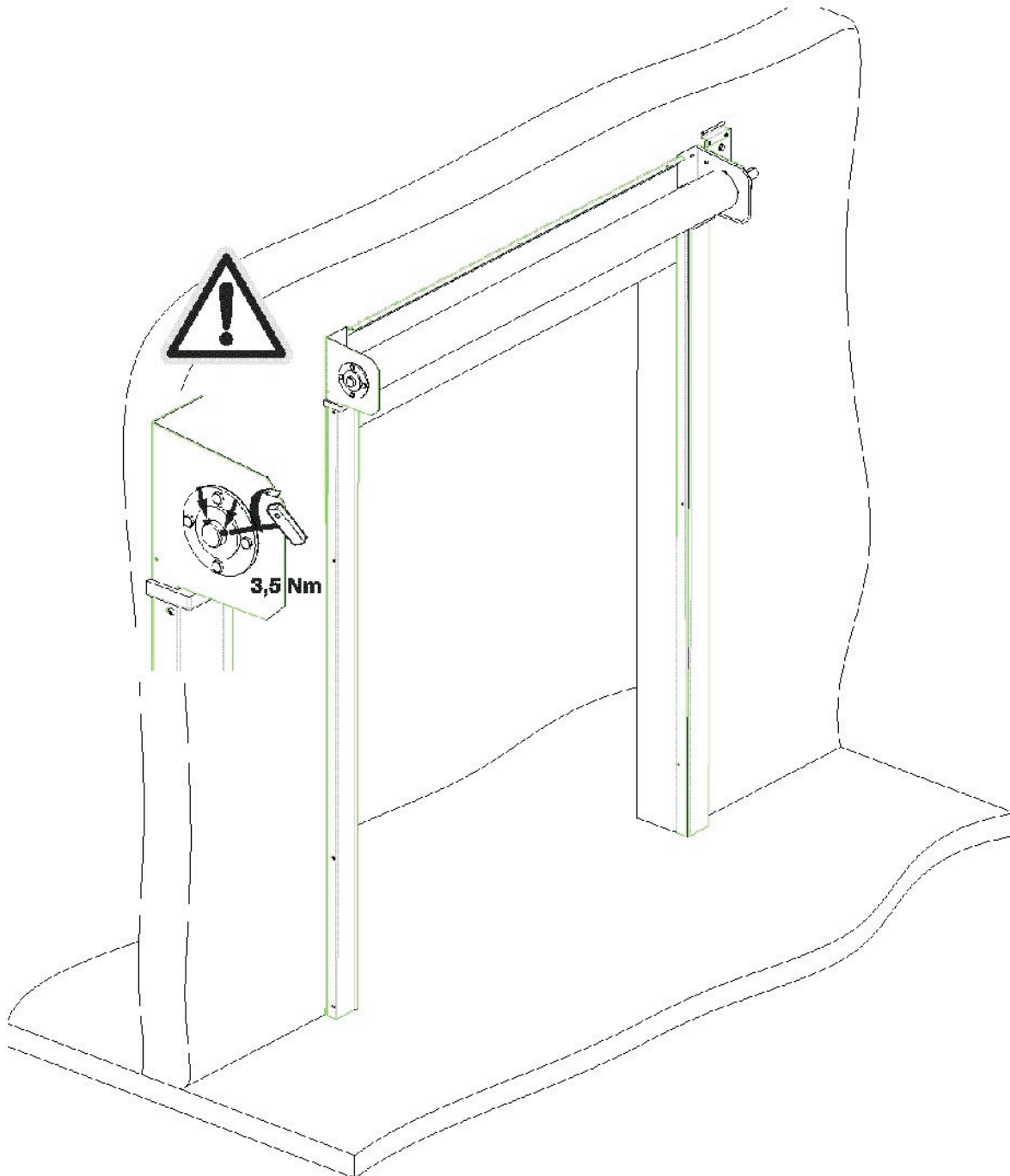
- For mounting the barrel remove bearing side guide from the wall.

### 3.3. Assembly of barrel and motor gearbox

- Raise barrel with the winded curtain with appropriate equipment on assembly height. Plug the drive pivot through the bearing. To avoid damage of the curtain secure barrel when raising it.

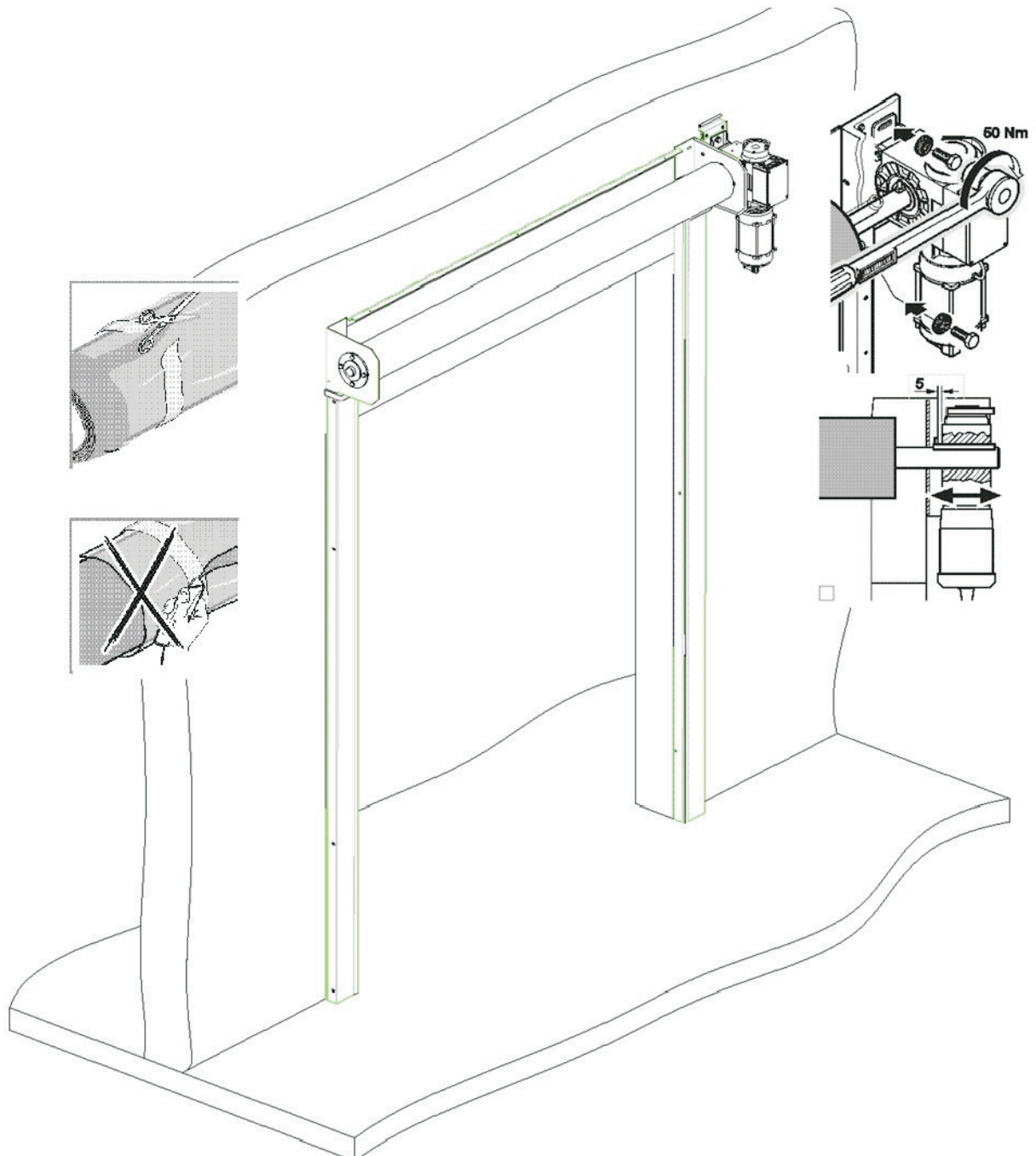


- The next Step is the assembly of the bearing side guide. After adjusting and screwing of the side guide the curtain has to be adjusted to the centre.



**Attention: The barrel has to be secured against axial moving with the ball compression screw of the flange bearing.**

- Plug the drive unit in the drive pivot with the fit-in key and screw in to the motor bracket. Take mounting parts from the accessories plastic bag (2 screws DIN933 M12x20 and Nordlockscrew).

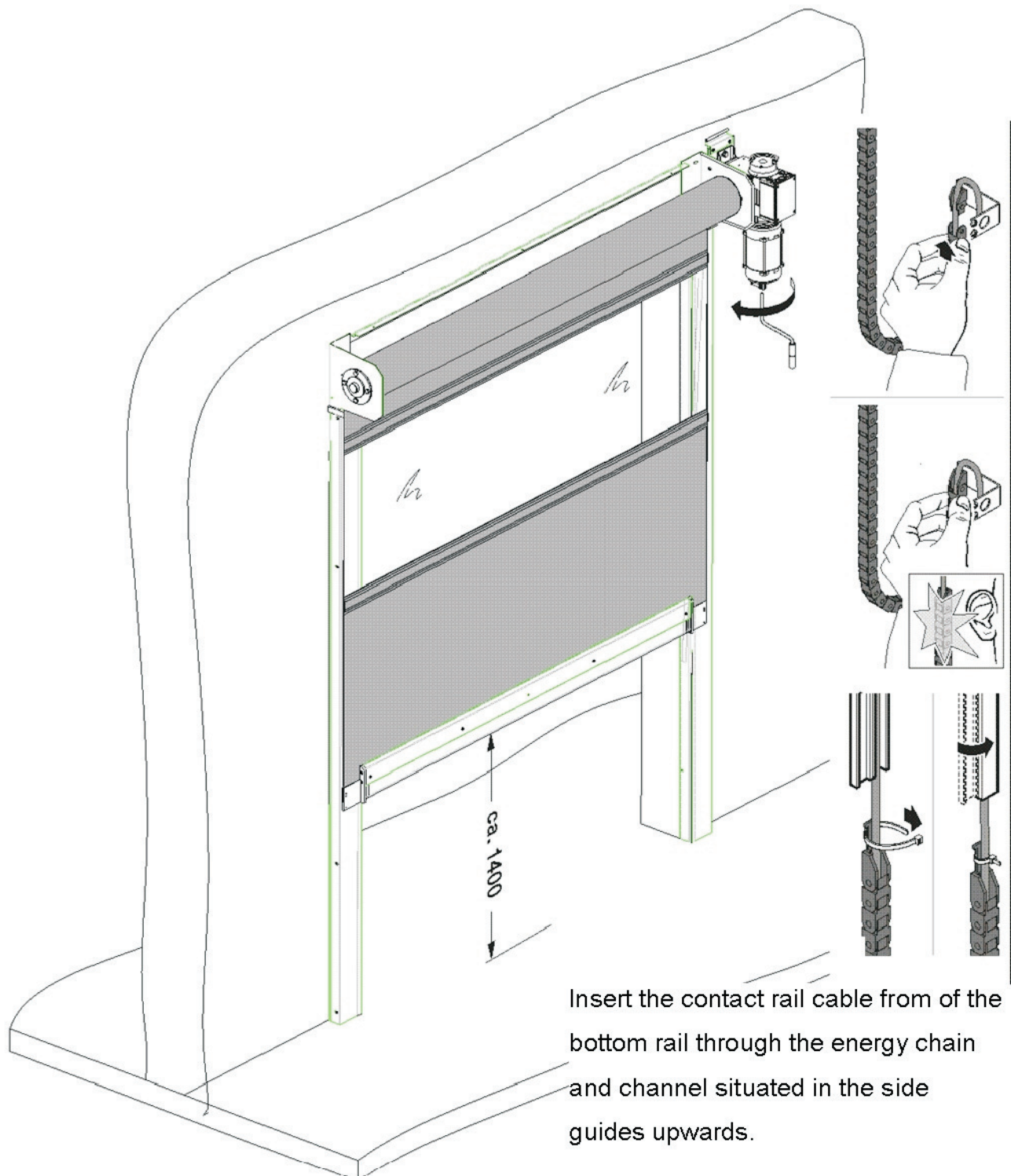


- Remove protective packing of the barrel.
- Lay cables and electrical connection to the drive unit.



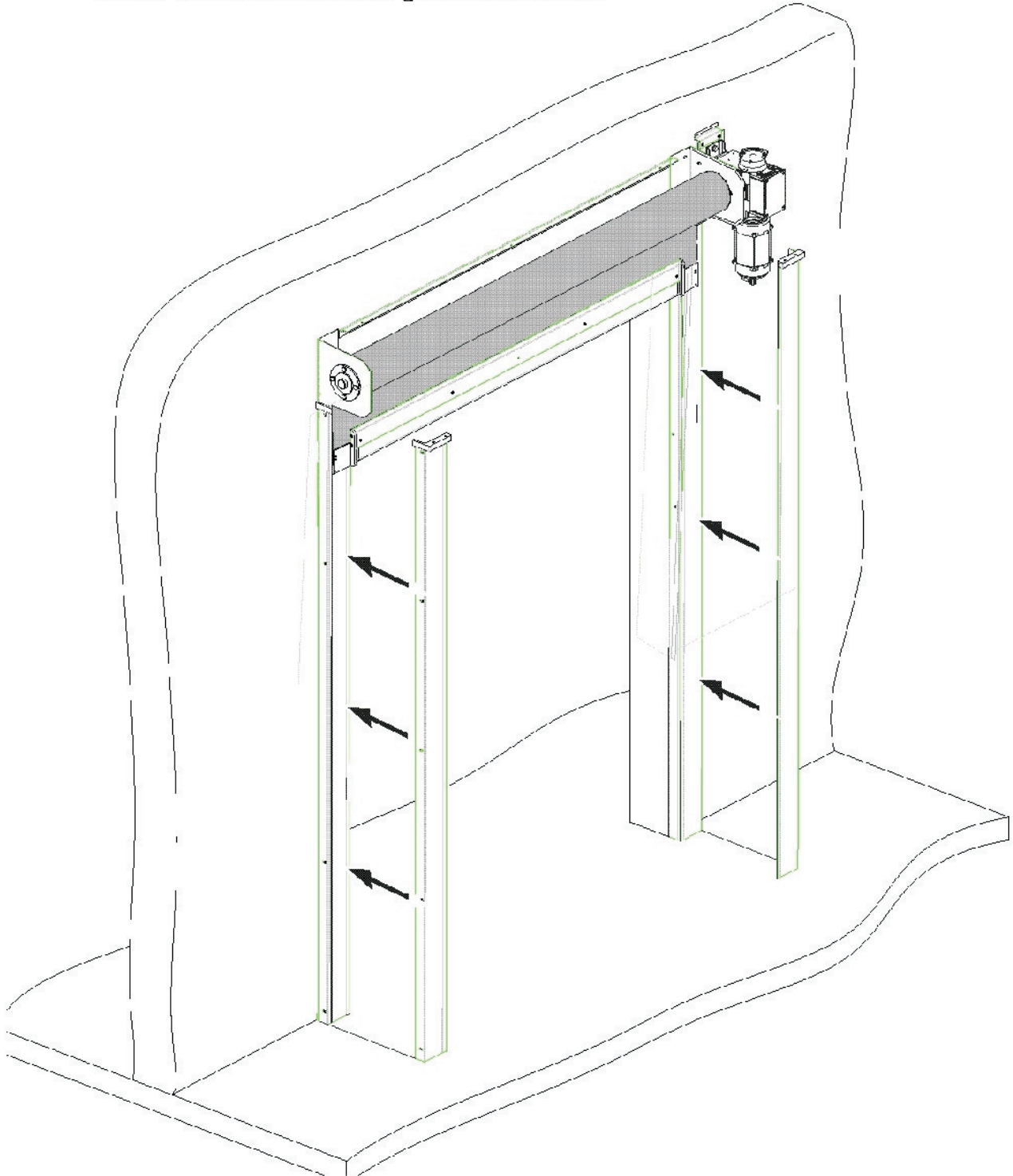
**Attention:** When removing the protective packing make sure that the curtain will not be damaged.

- Lower curtain by hand crank on about 1400 mm height.

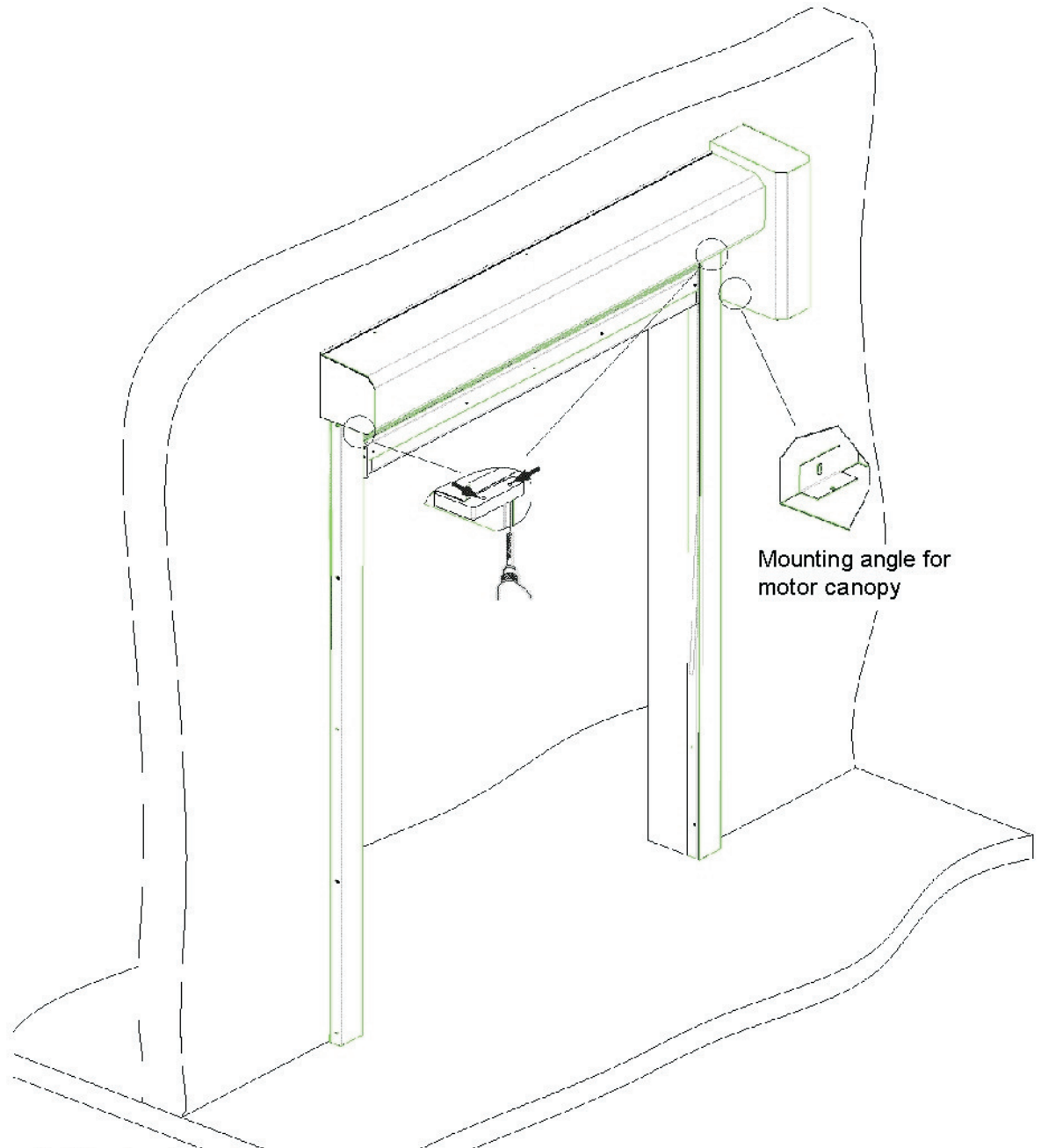


### 3.4. Assembly of barrel and motor canopy

- Screw and assemble side guide covers first.



- Slide on barrel canopy including sealing from the front over the barrel and screw.
- Hook in motor canopy and screw.



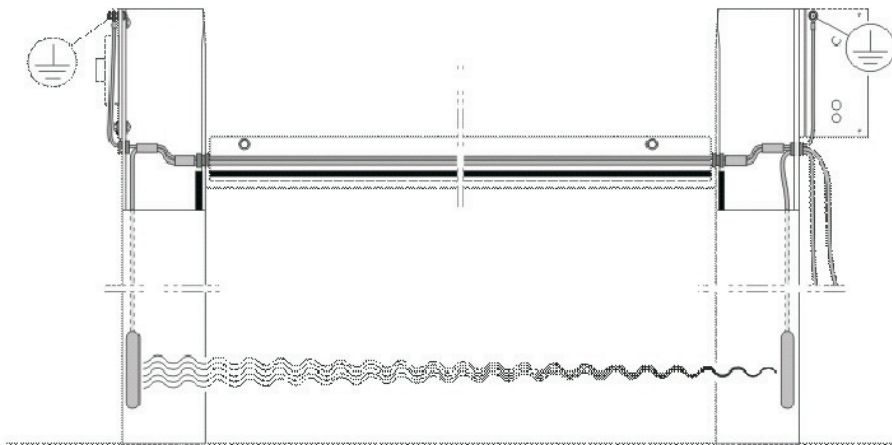
- Drill holes into the canopy.
- Screw cover and canopy together (you can find the screws in the accessories plastic bag).

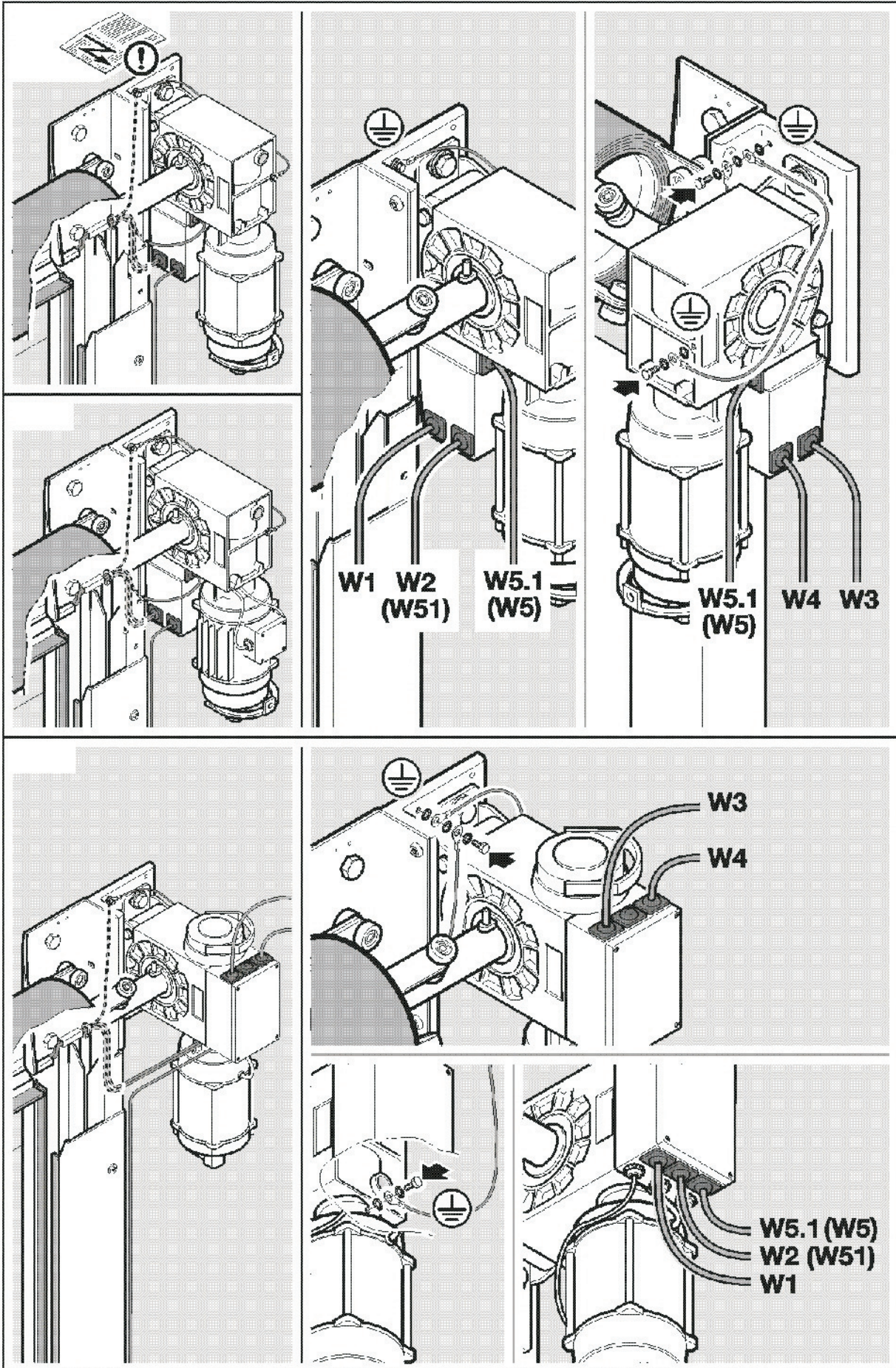


**Attention :** The trailing edge of the barrel canopy has to be flush with the cover !

## 3.5. Commissioning

- Lay cables and carry out electrical connection.





## **3.6 Dismantling**

The dismantling process is carried out in the reverse order to the assembly process.

**In this respect, particular attention must be paid that:**

- prior to the start of dismantling, the power supply provided by the customer is disconnected from the mains.
- the incoming power supply provided by the customer is disconnected at the control panel; the ends must be insulated.

## 5. MAINTENANCE

Seuster's roll fast door requires little servicing and is maintenance-friendly as a result of the side frames opening on hinges.

All the bearings, including the gear units, are maintenance-free in normal operating conditions and are provided with lifetime lubrication.

### Maintenance Intervals:

- According to the guidelines for power-operated windows, doors and gates (ZH 1/494), testing and maintenance of the door must be carried out once a year, keeping the interval as constant as possible.  
The scope of this work is indicated in detail in the enclosed maintenance contract / test report.
- Depending on the size of the door and the annual load cycles, we recommend:
  - a) In the case of very high load cycles > 80,000 to 100,000 per year
    - the functional elements should be serviced every six months
      - electric drive
      - all screw joints
      - switching-off system for end positions
      - control unit
  - b) In the case of low load cycles
    - annual maintenance in conjunction with the stipulated UVV test procedures according to ZH 1/494

If the curtain is extremely dirty, cleaning is recommended using Seuster's special cleaner for transparent roll fast doors.

Caution: Setting and maintenance work should only be carried out in the de-energised state.

In general, we recommend that you entrust maintenance/testing to Seuster's service department (see enclosed offer for maintenance).