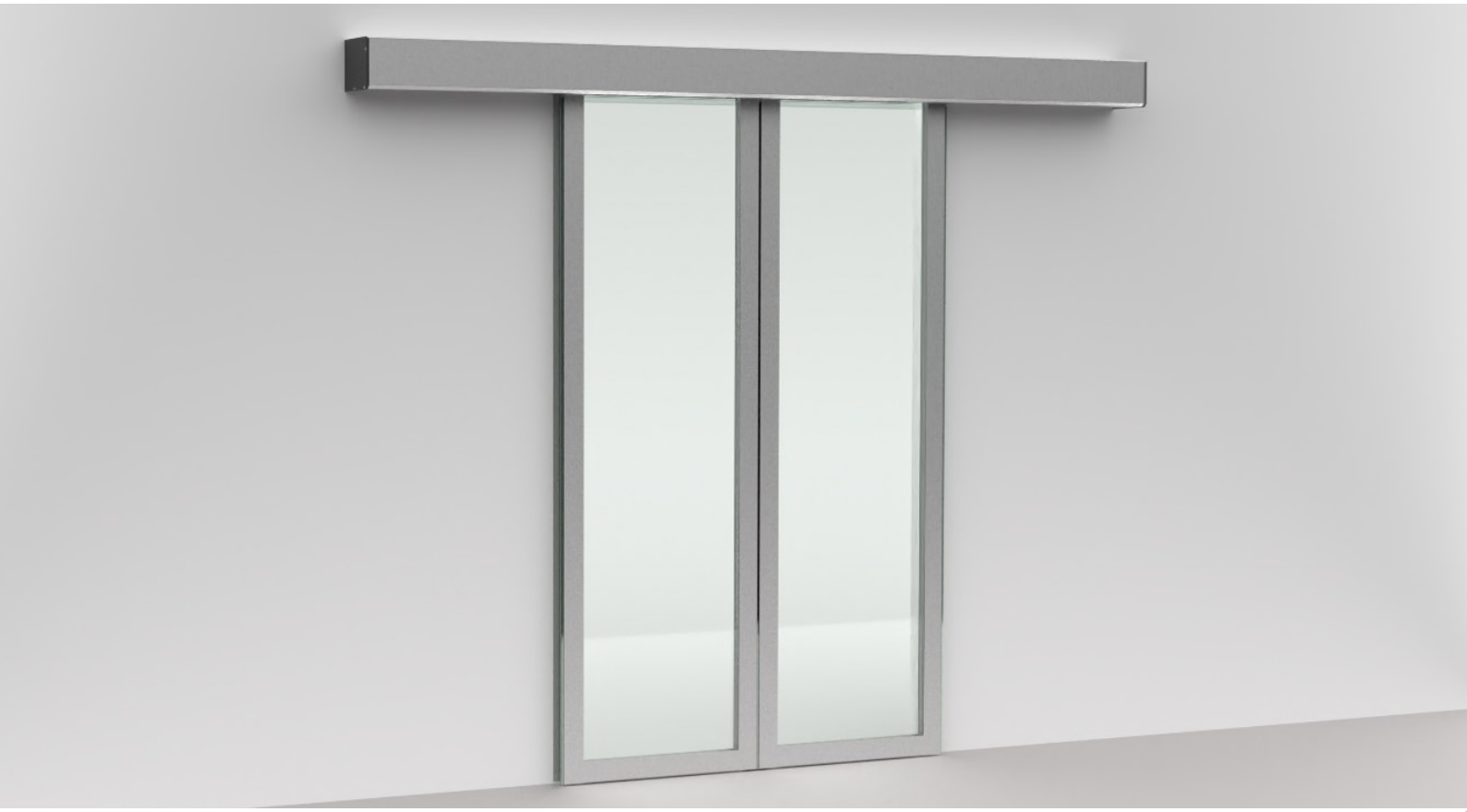
AS3000

EN



safe zone FDS 2easy SIMPLY CONNECT green tech EN 16005

FAAC

EN Translation of the original instructions

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CONTENTS

TABLES

ADDENDUM

1. INTRODUCTION TO THE MANUAL

This manual provides the correct procedures and requirements for installing AS3000 and maintaining it in a safe condition.

In Europe, the automation of a door falls under the Machinery Directive 2006/42/EC and the corresponding harmonised standards. Anyone automating a door (new or existing) is classified as the Manufacturer of the Machine. They are therefore required by law, among other things, to carry out a risk analysis of the machine (automatic door in its entirety) and take protective measures to fulfil the essential safety requirements specified in Annex I of the Machinery Directive.

FAAC SpA recommends that you always comply with the EN 16005 standard and in particular that you adopt the safety criteria and devices indicated, without exception.

This manual contains references to European standards. The automation of a door must fully comply with any laws, standards and regulations applicable in the country where installation will take place.

Unless otherwise specified, the measurements provided in the instructions are in mm.

SAFETY WARNINGS FOR THE INSTALLER

Before starting the installation, read and comply with the "Safety warnings for the installer" booklet supplied with the product, and these installation instructions.

ONLINE INSTRUCTIONS

The online manuals contain the instructions and procedures for the correct mechanical assembly and maintenance of the product (referred to in this manual) and the electronic board manual for electronic installation and commissioning.

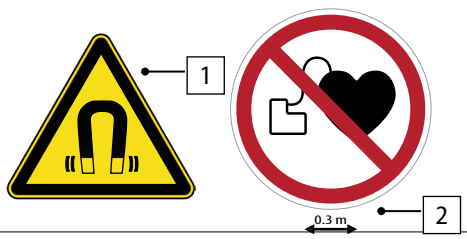
To access the online manuals directly, scan the QR code associated with the ISO 70000 - 0790 symbol on the label attached to the product.

Facsimile:

WARNINGS

1 Risk of magnetic field

2 No access for persons with pacemakers



1.1 MEANING OF THE SYMBOLS USED

Perform the operations and steps described in compliance with safety regulations and the instructions provided so as to prevent the risks indicated by the symbols in the following tables.

■ **Symbols: notes and warnings on the instructions**

WARNING

Details and specifications to be followed with the utmost attention, in order to ensure correct operation of the system.

TABLE REFERENCE

It refers to the table indicated by the number.

ATTENTION

The batteries and electronic components must not be disposed of with household waste but delivered to authorised disposal and recycling centres.

■ **Symbols: tools (type and size)**

SET OF HEXAGONAL SPANNERS

DOWELS

SET OF PHILLIPS SCREWDRIVERS

LEVEL

BOX SPANNER

SET OF TORX SCREWDRIVERS

TOOL with TORQUE ADJUSTMENT

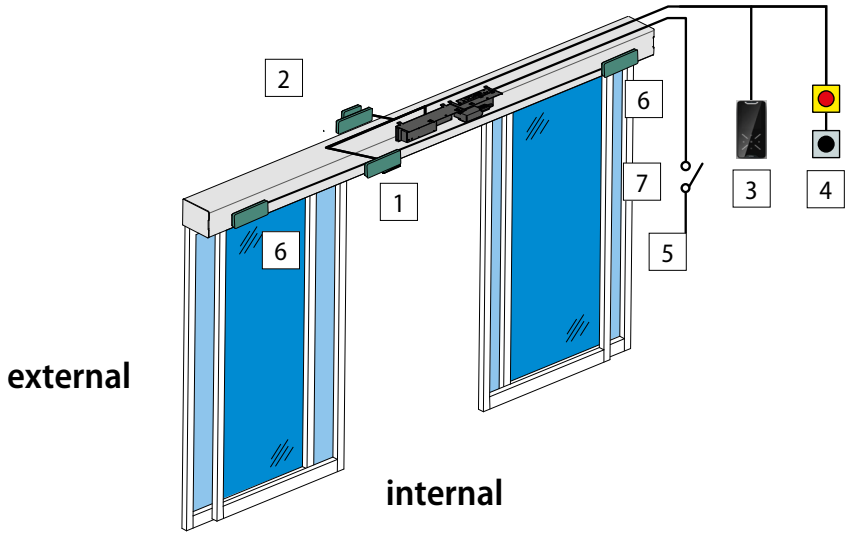
It indicates that a tool with torque adjustment is required where necessary for safety reasons.

FASTENING TORQUE VALUE

The tool and the fastening torque in Nm is specified in the figures.

E.g.: HEX SPANNER 6 set at 2.5 Nm

2. AUTOMATION AS3000 H100-H140



1	Internal monitored opening detector and safety in closing	optional accessory
2	External monitored opening detector and safety in closing	optional accessory
3	DPE3	optional accessory
4	Emergency/Key/OPEN control buttons	optional accessories
5	Power supply	see electronic board power supply
6	Internal monitored safety in opening detectors	optional accessory
7	Circuit breaker and differential switch	

2.1 INTENDED USE

The FAAC AS3000 series systems are designed to automatically operate, manage and control linear horizontal motion one- or two-leaf sliding doors.

The AS3000 series automations are designed to automate entry doors that are used exclusively for pedestrian traffic.

They are compliant with standard EN 16005.

They are suitable for indoor installation, for applications that meet the specifications indicated in ▦ Technical data.

ⓘ No other use outside the ones set out above is allowed by the manufacturer.

FAAC declines all liability deriving from misuse or uses other than that for which the automation s intended.

2.2 LIMITATIONS OF USE

Do not use the automation in the presence of the following conditions:

- direct exposure to weathering
- exposure to direct water jets of any type or extent
- outside the technical limitations specified
- in the absence of mandatory components supplied separately
- outside the installation and positioning limits of the components supplied (see online AS3000 INSTALLATION DIAGRAMS)

For installations on boats or similar, the product must only be installed as a driver: the installer must carry out a risk analysis of the entire machine (driver and leaves).

If there is a pedestrian access gate integrated in the leaf, the motorised movement must be disabled when the pedestrian gate is not in a safe position.

2.3 UNAUTHORISED USE

It is forbidden to:

- use the automation for uses other than THE INTENDED USE;
- use the automation for installing smoke and/or fire protection doors (fire doors);
- supply the system with energy sources other than those specified;
- use the automation with mobile and fixed guards tampered with or removed;
- use the automation in environments in which there is a risk of explosion and/or fire: the presence of flammable gases or fumes is a serious safety hazard (the product is not 94/9/EC ATEX certified);
- integrate other systems and/or commercial equipment not intended;
- use other systems and/or commercial equipment for uses not authorised by the respective manufacturers;
- climb on the door, hold on to the door or allow yourself be pulled by the door;
- allow children to approach or play in the area of operation of the automation;
- use commercial devices for purposes other than those specified by the respective manufacturer.

2.4 EMERGENCY USE

In the event of a malfunction, emergency or failure, disconnect the power supply to the automation.

If the door can be moved safely by hand, use the MANUAL OPERATION mode; otherwise place the automation out of service until it has been reset/repaired.

In the case of a breakdown, the automation must be reset/repaired exclusively by the installer/maintenance technician.

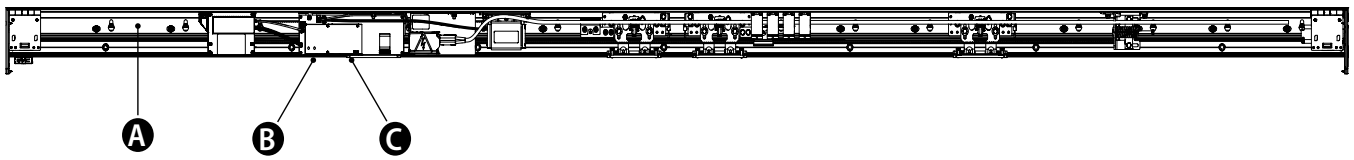
PRODUCT IDENTIFICATION

The product can be identified by the plate **A** on the support profile.

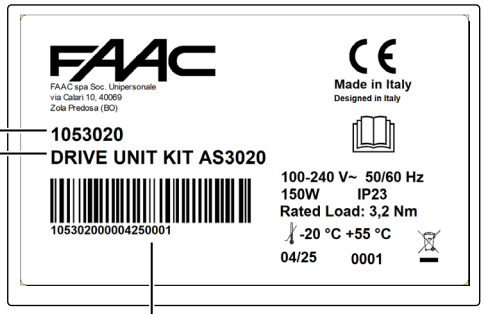
MARKINGS ON THE PRODUCT

Label **B** and label **C** with QR code for direct access to online instructions.

If the AS3000 KIT is supplied, it is the installer's responsibility to attach the identification plate in a visible position.



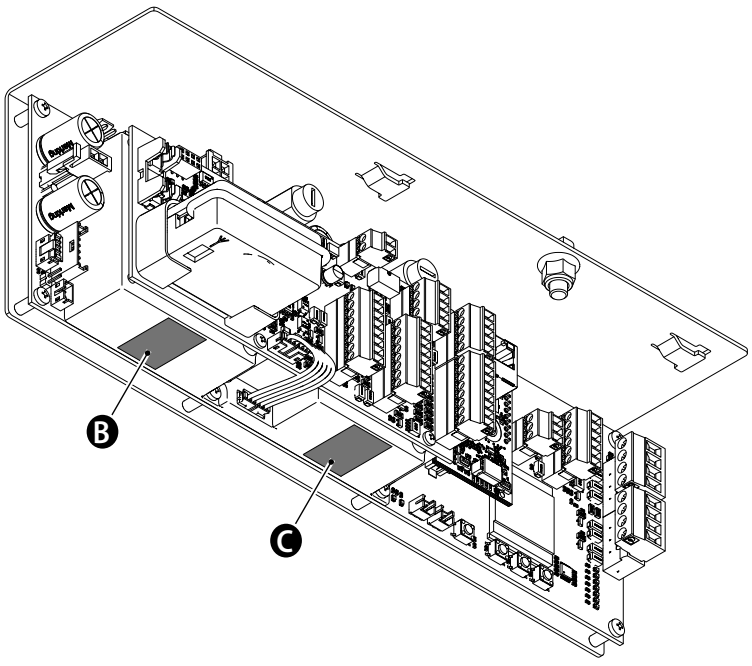
A



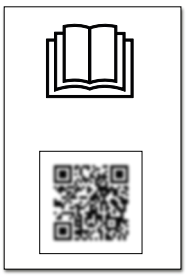
example:

1053010000 0724 0001

Sale code | Progressive No. | Month and year of production (mm/yy)

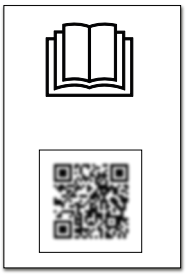


B



AS3000

C



E3SL

2.5 TECHNICAL SPECIFICATIONS

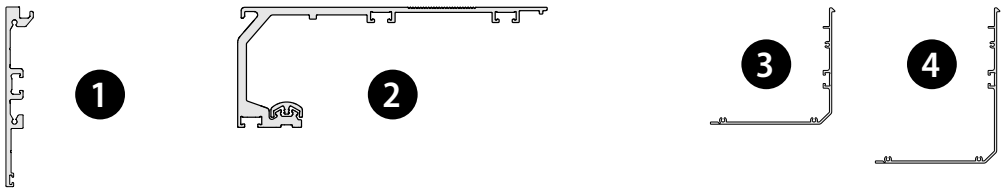
The AS3000 range of automations is designed for pedestrian sliding doors where the leaves are suspended and moved by a brushless direct drive motor. The differences between the various versions are shown in the tables below.

1 Limitations of use

Versions	Leaves	Passage opening [mm]	MAX. beam length [mm]	MAX. leaf weight [kg]
AS3010	1 - 2	700 - 3000 / 800 - 3000	6100	120 / 100 + 100
AS3020	1 - 2	700 - 3000 / 800 - 3000	6100	200 / 150 + 150
AS3030	1 - 2	700 - 3000 / 800 - 3000	6100	300 / 200 + 200

2 Dimensions and weights

Profile type	Id	Height [mm]	Depth [mm]	Linear weight [kg/m]
Mounting profile	1	105	10	1.3
Support profile	2	71	177	3.6
H100 cover	3	100	106	1.3
H140 cover	4	140	106	1.5



3 Technical data

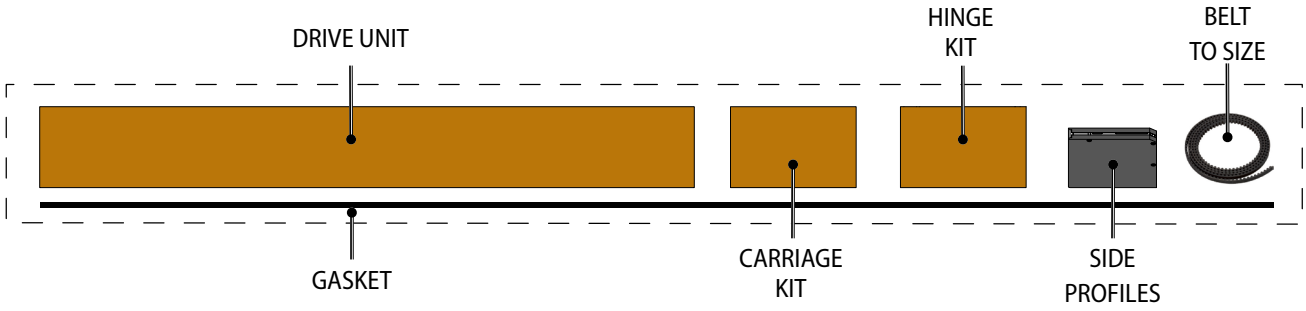
	AS3010	AS3020	AS3030
Power supply voltage	100-240 V~ 50 Hz/60Hz	100-240 V~ 50 Hz/60Hz	100-240 V~ 50 Hz/60Hz
Torque	1.5 Nm	3.2 Nm	3.2 Nm
MAX absorbed power [W]	100	150	300
Ambient operating temperature	-20°C - +55°C	-20°C - +55°C	-20°C - +55°C
Automation protection rating	IP 23 (internal use)	IP 23 (internal use)	IP 23 (internal use)
Type of electric motor	Brushless DC	Brushless DC	Brushless DC
Sound pressure (L_{pA})	< 70 Db (A)	< 70 Db (A)	< 70 Db (A)
Max. accessories load (including DPE3)	1A, 24V	1A, 24V	1A, 24V
Time/date backup battery	Lithium CR2032 3V	Lithium CR2032 3V	Lithium CR2032 3V
Motion backup battery	NiMh 24V 1800mAh	NiMh 24V 1800mAh	NiMh 24V 1800mAh

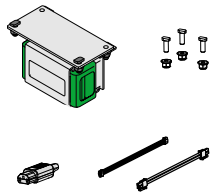
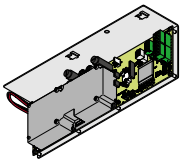
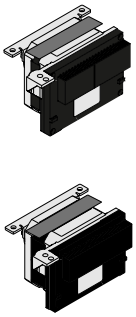
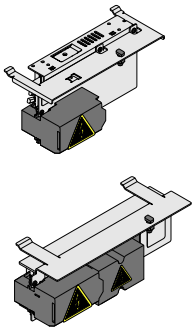
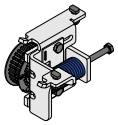
2.6 AVAILABLE VERSIONS

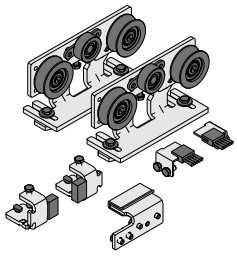
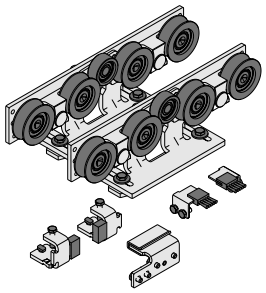
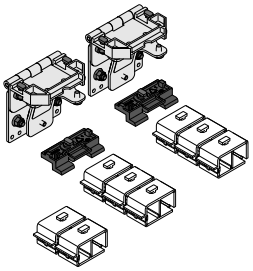
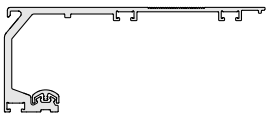
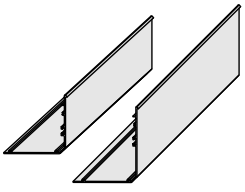
The FAAC AS3000 series automations may be supplied as follows:

1. Automation kit: AS3000 KIT
2. Automation AS3000 PA (components assembled inside the frame)
3. Automation AS3000 DA (kits not assembled inside the frame)
4. Complete entry door: AS3000 CS

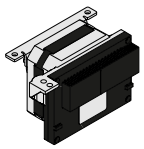
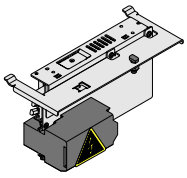
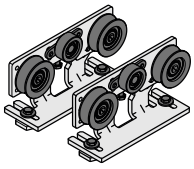
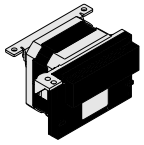
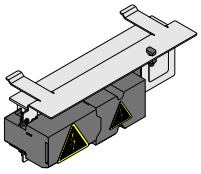
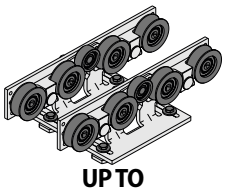
KIT COMPOSITION IN AS3000 DA



DRIVE UNIT				
				
- Battery - IEC socket - Motor screw unit - Motor cables	- Electronic board E3SL	- Motor H15 or - Motor H25	- Power supply 150 W or - Power supply 350 W	- Return pulley

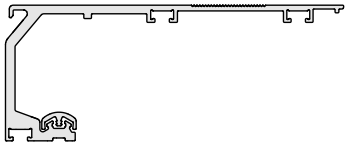
CARRIAGE KIT		HINGE KIT	PROFILES	
				
- Carriages for standard leaves (x2) - Mechanical stop (x2) - brushes (x2) - Belt connection unit	- Carriages for heavy leaves (x2) - Mechanical stop (x2) - brushes (x2) - Belt connection unit	- Hinge (x2) - Cover stabiliser (x2) - Cable clips (x8)	- Support profile	- H100 cover or - H140 cover

AS3000 RANGE VERSIONS

	MOTOR	POWER SUPPLY UNIT	CARRIAGES	
AS3010	 H15	 150 W	 UP TO 200 kg	
AS3020	 H25			
AS3030		 350 W		 UP TO 300 kg

AS3000 AUTOMATION COMPONENTS

■ **Support profile**

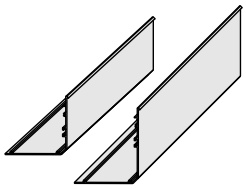


This allows the automation to be securely fastened to a load-bearing wall.

■ **Mounting profile - OPTIONAL**

This makes it easier to install the support profile.

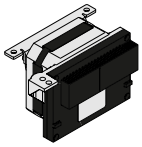
■ **Front cover profile (H100 or H140)**

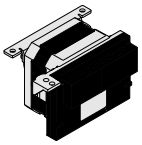


Aluminium profile for front head section closure.
H100 (height 100 mm) or H140 version available (height 140 mm).

■ **Brushless motor (H15 and H25)**

H15



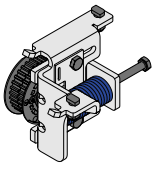


H25

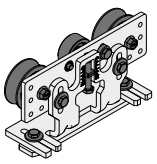
■ **Transmission belt**

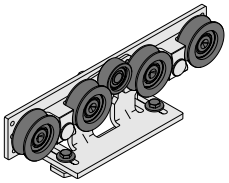
It is mandatory to use a FAAC belt

■ **Return pulley**

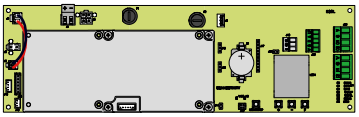


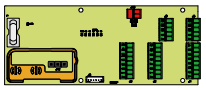
■ **Support carriages - standard and for heavy doors - (2 for each leaf)**





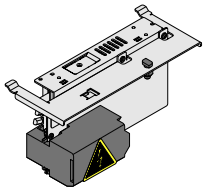
■ **Electronic board E3SL and expansion board (optional)**

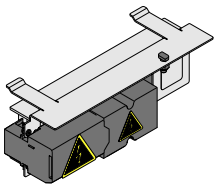




■ **Power supply (150W - 350W)**

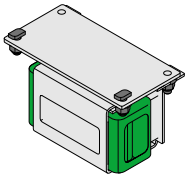
150 W





350 W

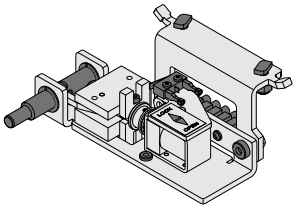
■ **Emergency battery**



It allows the automation to operate in case of mains power failure.

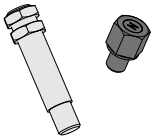
ACCESSORIES

■ **XBC3 LOCK - OPTIONAL**



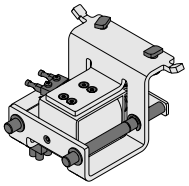
It acts directly on the carriage, mechanically locking it in order to hold the leaves in position.
Ready for installing external releases.

■ **Monitoring - OPTIONAL**



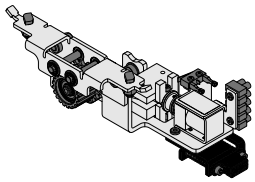
The magnetic monitoring sensor detects the door status: closed/ not closed It is fitted with connector for connecting a relay (e.g. to connect an alarm system).
The monitoring micro switch on the leaf stop or belt detects malfunctions. It is ready to remotely activate a light or sound warning.

■ **XMC3 LOCK - OPTIONAL**



It acts directly on the carriage, mechanically locking it in order to hold the leaves in position.

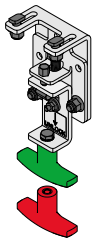
■ **XBB3 LOCK - OPTIONAL**



It acts directly on the belt, mechanically locking it in order to hold the leaves in position.

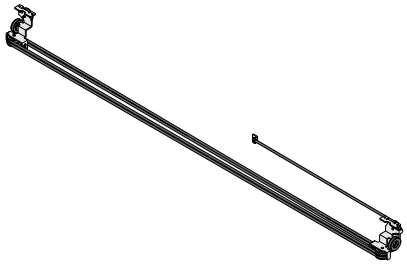
Ready for installing external releases.

■ **XLM3 - OPTIONAL**



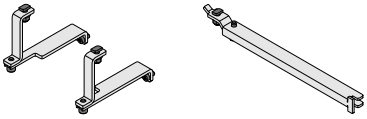
Internal lock/release device, allowing emergency closing/opening if required.

■ **Elastic kit - OPTIONAL**



Required for sliding doors used as escape routes and emergency exits in accordance with standard C048 (France)

■ **Cover lock kit and cover support kit - OPTIONAL**



The cover lock is used to prevent accidental opening of the cover (required for applications below 2.5 m)

The support arm can be fitted before the hinges are installed, to support the cover while the hinges are being installed and to facilitate maintenance operations.

■ **DPE3 - OPTIONAL**

Programming and function selector device with display.

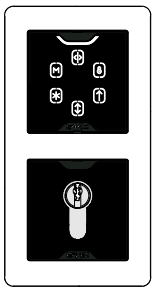
■ **BFQ3 - OPTIONAL**

Programming and function selector device without display.

■ **KEX3 - OPTIONAL**

Key function selector.

■ **BFQ3 e KEX3 - OPZIONALE**



Programming and function selector device without display with BFQ3 lock/release device..

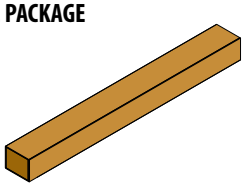
3. TRANSPORT AND RECEIPT OF THE GOODS

HANDLING THE PACKAGES

The NET WEIGHT is indicated on the package.

PALLETISED SUPPLY

SINGLE PACKAGE



UNPACK AND HANDLE

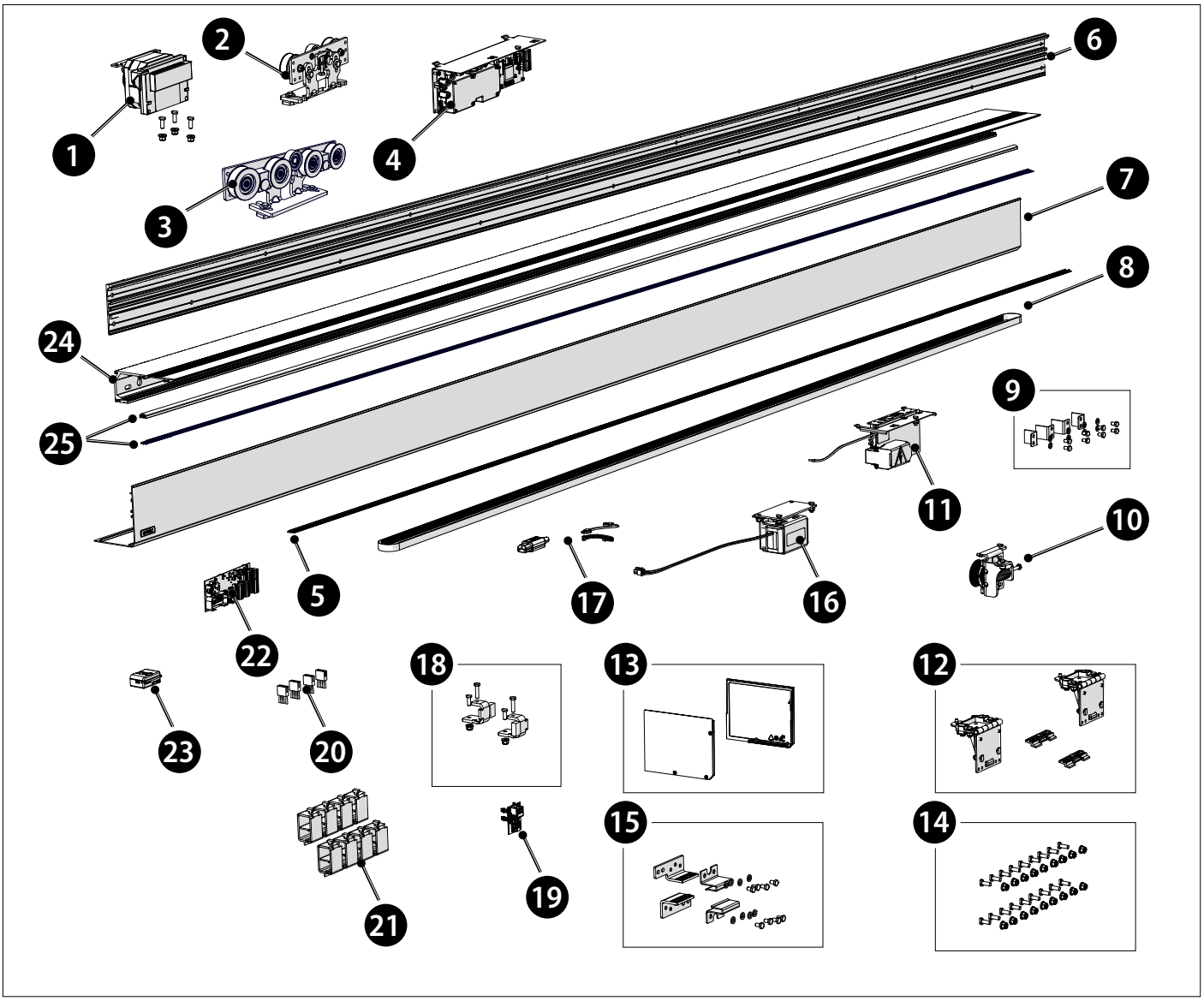
1. Open and remove all packaging elements.
2. Make sure that all components requested are present and undamaged.

If the goods supplied are non-compliant, proceed as indicated in the General Conditions of Sale listed in the sales catalogue and which can be consulted on the website www.faactechnologies.com.

The unpackaged goods must be handled manually.

Should transport be required, the products must be suitably packaged.

4. COMPONENT IDENTIFICATION



No.	Description	Quantity
1	Motor	1
2	Standard carriage	4
3	Carriage for heavy leaves	4
4	Electronics assembly	1
5	Lower gasket	1
6	Mounting profile (optional)	1
7	Cover	1
8	Toothed belt	1
9	Brush support plate	4
10	Return pulley	1
11	Power supply	1
12	Cover hinge and stabiliser	2
13	Side profile	2
14	M6 x 16 screw and M6 nut kit (optional with n°6)	25

No.	Description	Quantity
15	Belt-coupling bracket	2
16	Battery	1
17	Driver accessory unit AS3000	3
18	Mechanical stop	2
19	XWBL (Emergency Fast Operation - optional)	1
20	Guide brush	4
21	Cable grip	8
22	Expansion board (optional)	1
23	Receiver (optional)	1
24	Support profile	1
25	Gasket and guide	1

5. INSTALLATION DIAGRAMS AND MEASUREMENTS (ONLINE)

Before starting to assemble and install the parts, follow the instructions in the installation and component positioning diagrams available online at the following link: https://www.faac.help/products/as3000-installation-diagrams/

4 Nomenclature Diagrams

Automation	Type and number of leaves	Version	Accessories
- AS3000	01 = 1 mobile leaf (right-DX/left-SX) 02 = 2 mobile leaves 11 = 1 fixed leaf and 1 mobile leaf DX/SX 22 = 2 fixed leaves and 2 mobile leaves	- STD = Support carriages standard - HVY = Support carriages heavy	-XMC3 = monostable trolley block -XBC3 = bistable trolley block -XBB3 = bistable belt lock -XLM3 = lock/unlock -KEL = elastic kit -SUR = surveillance kit

6. CUTTING THE PROFILES

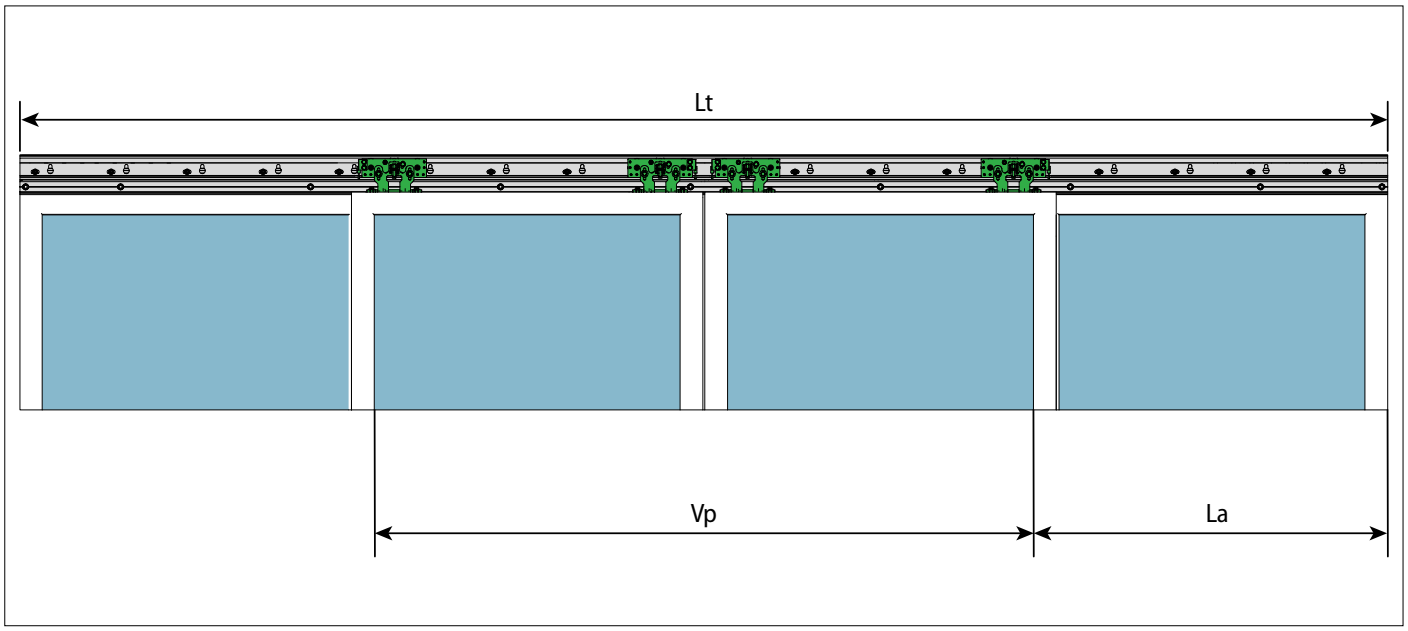
If the AS3000 KIT has been supplied, the profiles must be cut to the size indicated. This operation is performed in the shop. After cutting, assemble the components to the support profile.

It is forbidden to use a hand saw. Use a circular or linear saw cutting machine with blade suitable for cutting metal.

Cut to the specified dimensions (⊞ Profile cutting measurements).

⊞ **5** Profile cutting measurements

Profile to be cut	**Cutting measurement [mm]**
- Support profile	**Lt = Vp x 2 + 100**
- Head section cover	Lt
- Leaf connection profile (OPTIONAL) - Lower guide profile (OPTIONAL)	**La** The leaf width measurement (**La**) depends on the size of the passage opening (**Vp**), the number of leaves and the intended overlap.

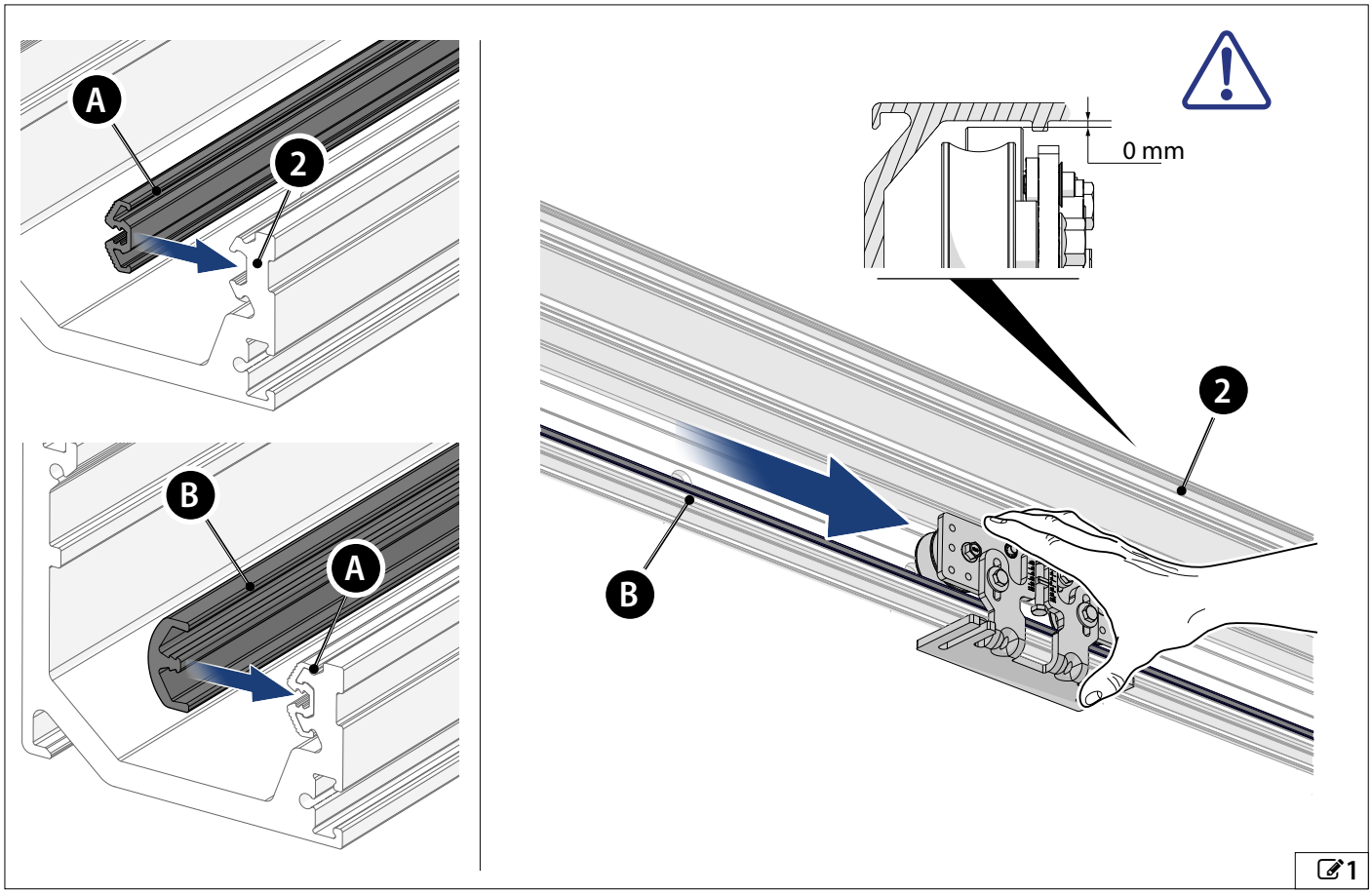


7. ASSEMBLY

7.1 INSTALLING THE GUIDE ON THE PROFILES

1. Insert the gasket (**A**) into the seat of the support profile (**2**).
2. Place the guide (**B**) over the gasket (**A**).
3. Use a carriage to fit the guide (**B**) evenly along the entire support profile (**2**).

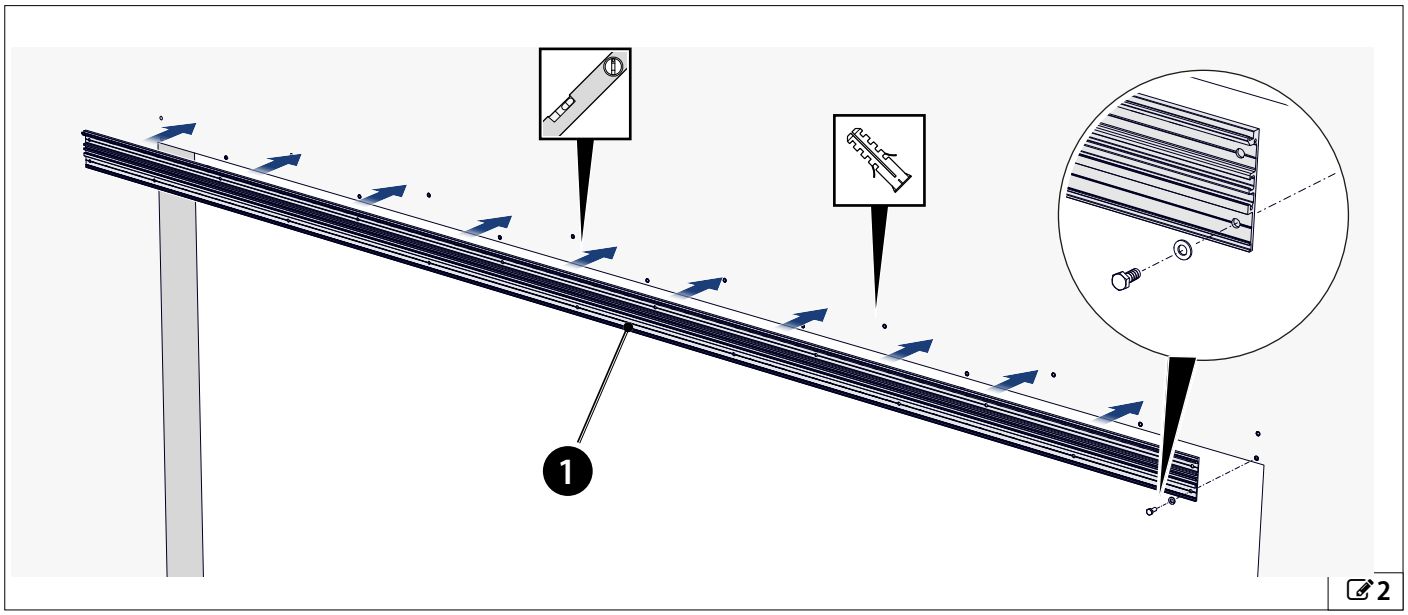
Adjust the counter wheel to secure the guide



7.2 INSTALLING THE SUPPORT PROFILE ON THE MOUNTING PROFILE

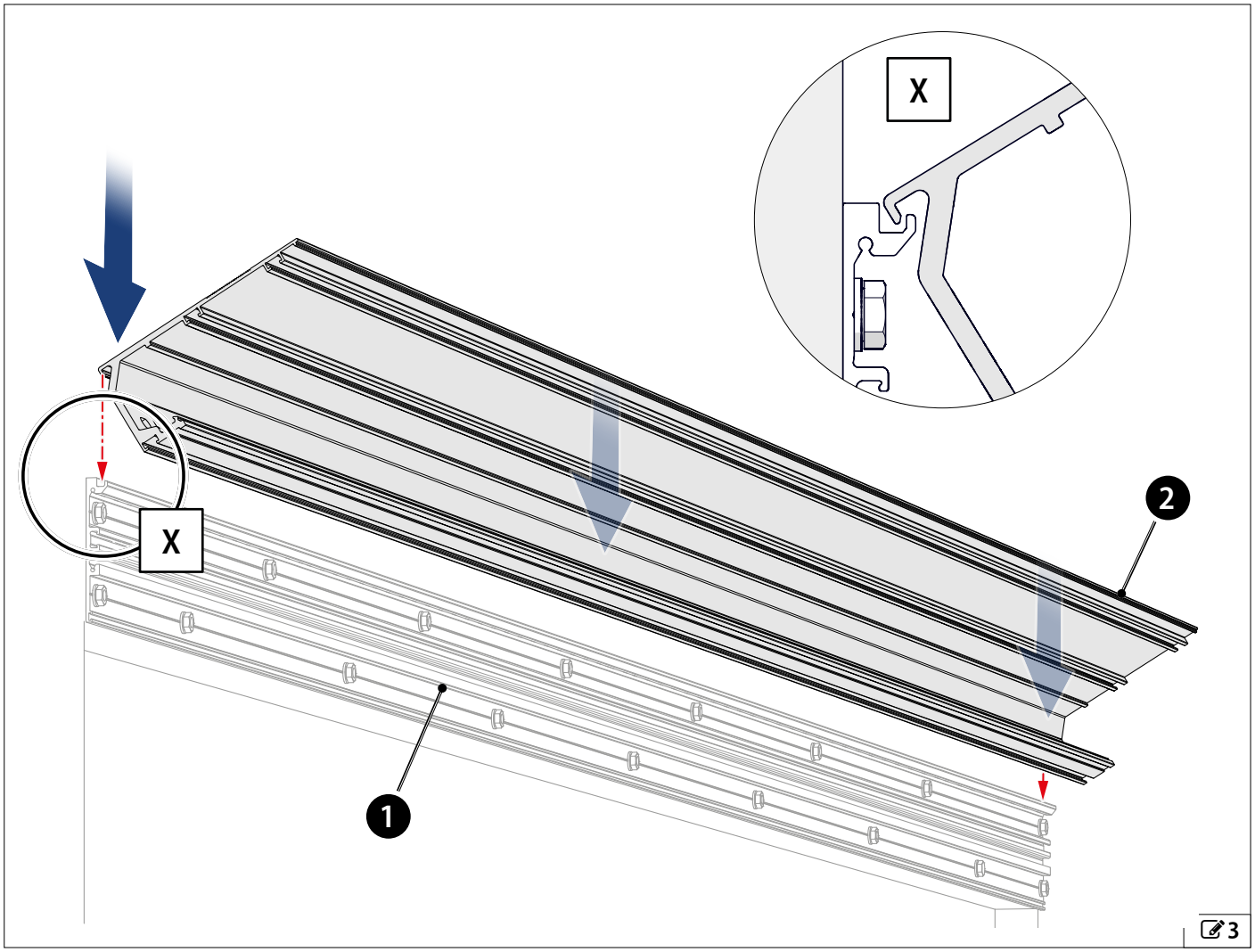
1. Fix the mounting profile (**1**) to the surface using suitable dowels.

For mounting specifications see 1
Use a spirit level to check for levelness and flatness.



2

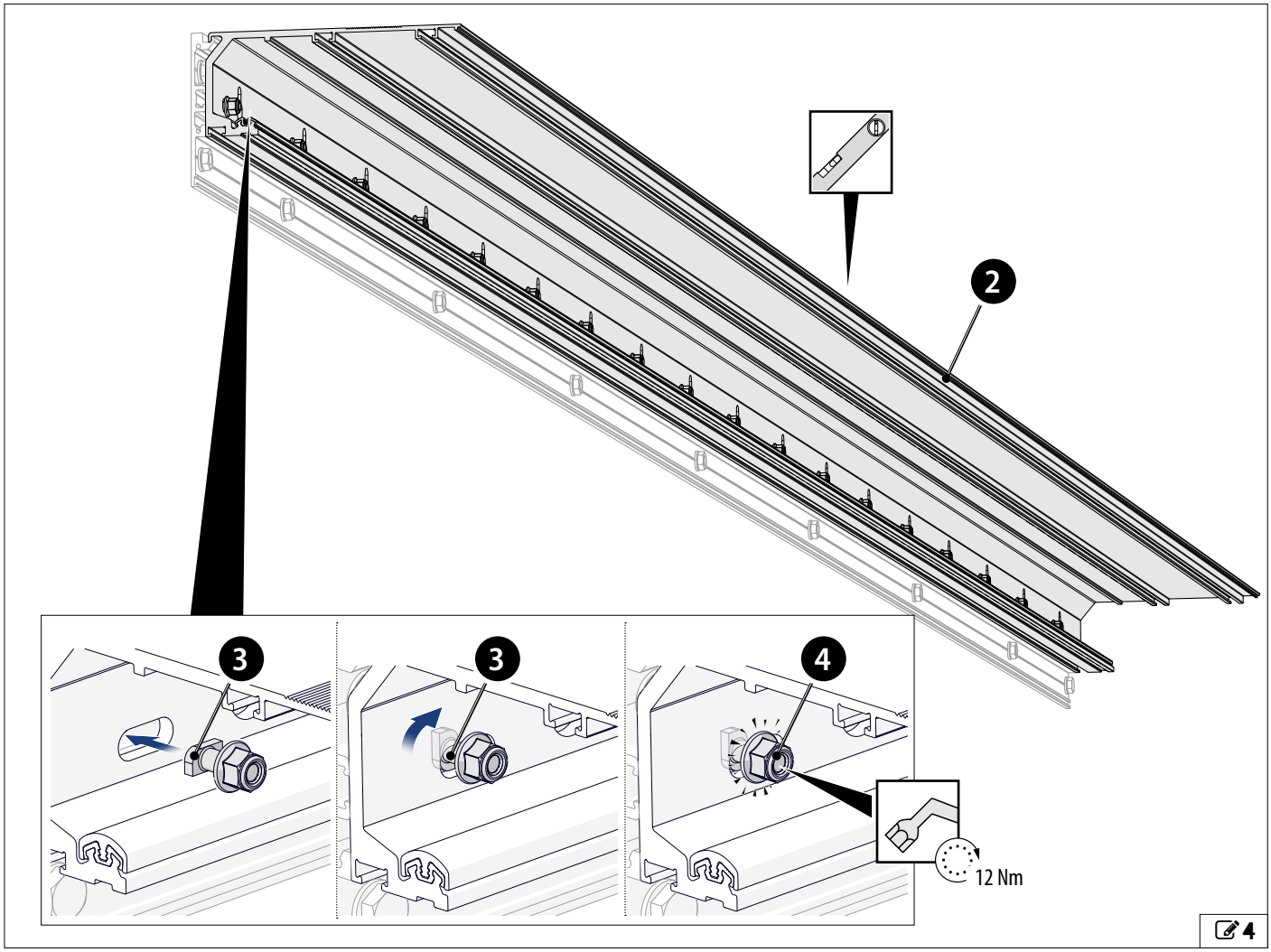
2. Attach the support profile (**2**) to the mounting profile (**1**) as shown in detail (X).



3

3. Fasten the support profile (**2**) with screws (**3**) and nuts (**4**).

Make sure that the screws have been tightened correctly as shown in the detail diagram

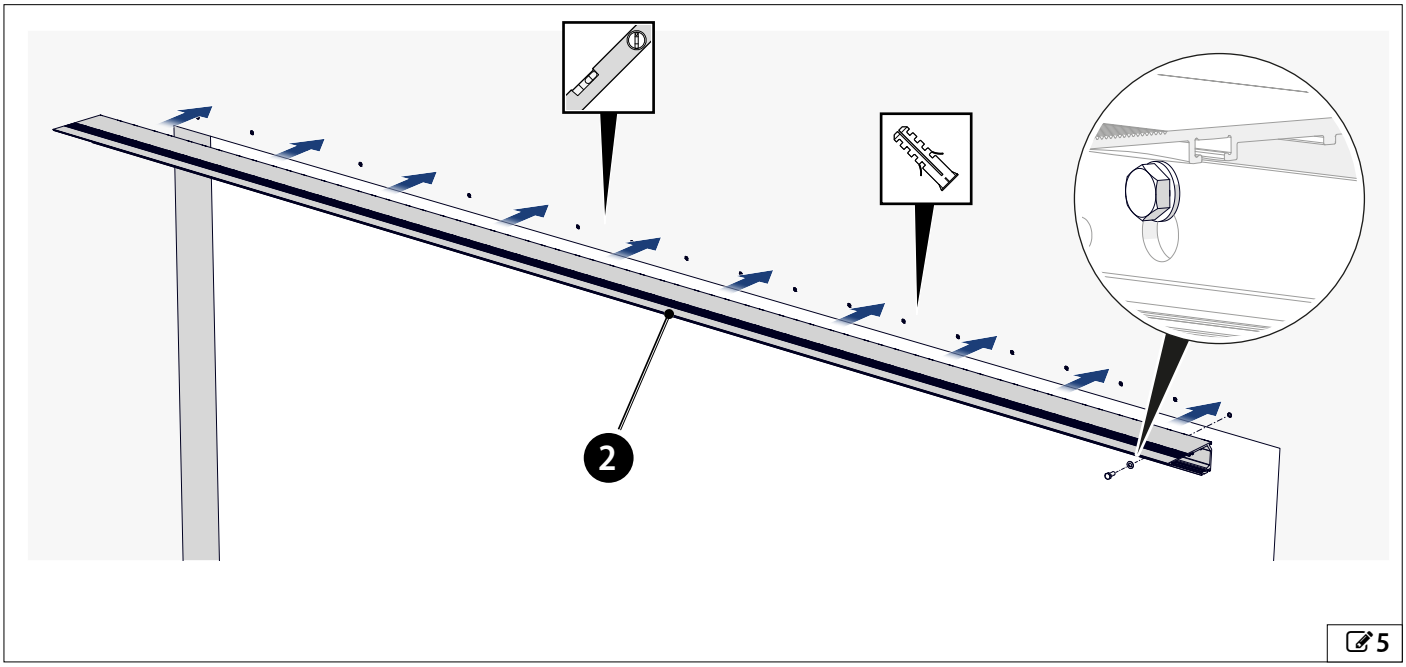


4

7.3 INSTALLING THE SUPPORT PROFILE DIRECTLY ON THE WALL

1. Fasten the support profile (**2**) directly to the surface using suitable dowels.

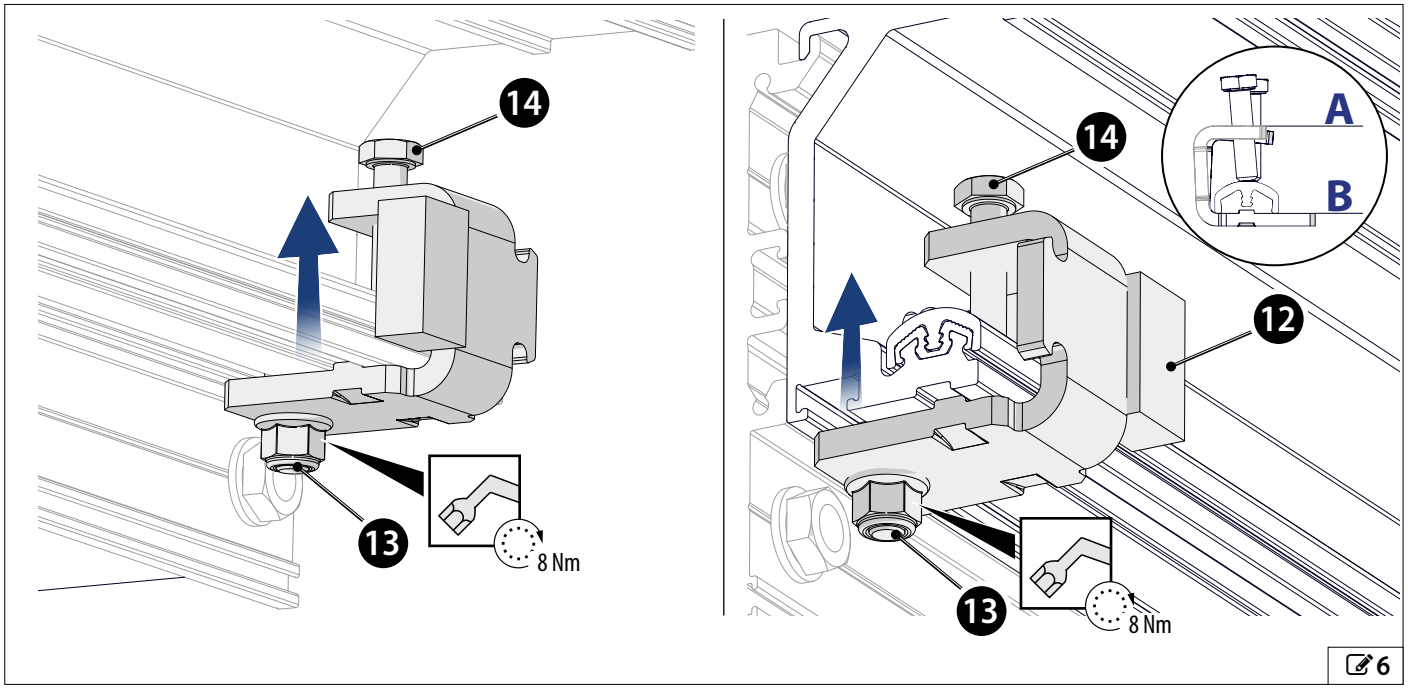
For mounting specifications see 1
Check the horizontal with a spirit level.



5

7.4 MECHANICAL ASSEMBLY OF LEAVES AND CARRIAGES

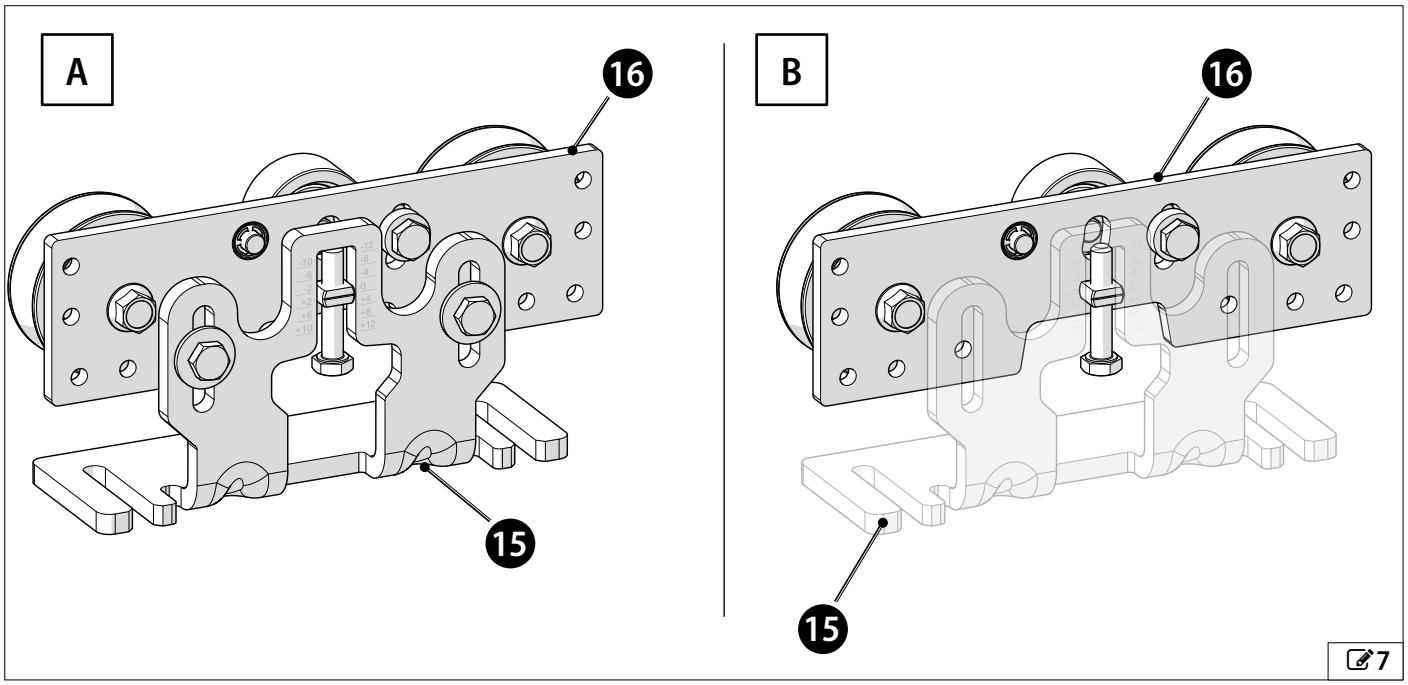
1. Position the limit stops (**12**), left, right and centre (if using double leaves).
2. Tighten the nut (13).
3. Turn the adjusting screw (14) until the upper surface (A) of the bracket is parallel to the lower surface (B).



At this point, the kit can be assembled in one of two ways:

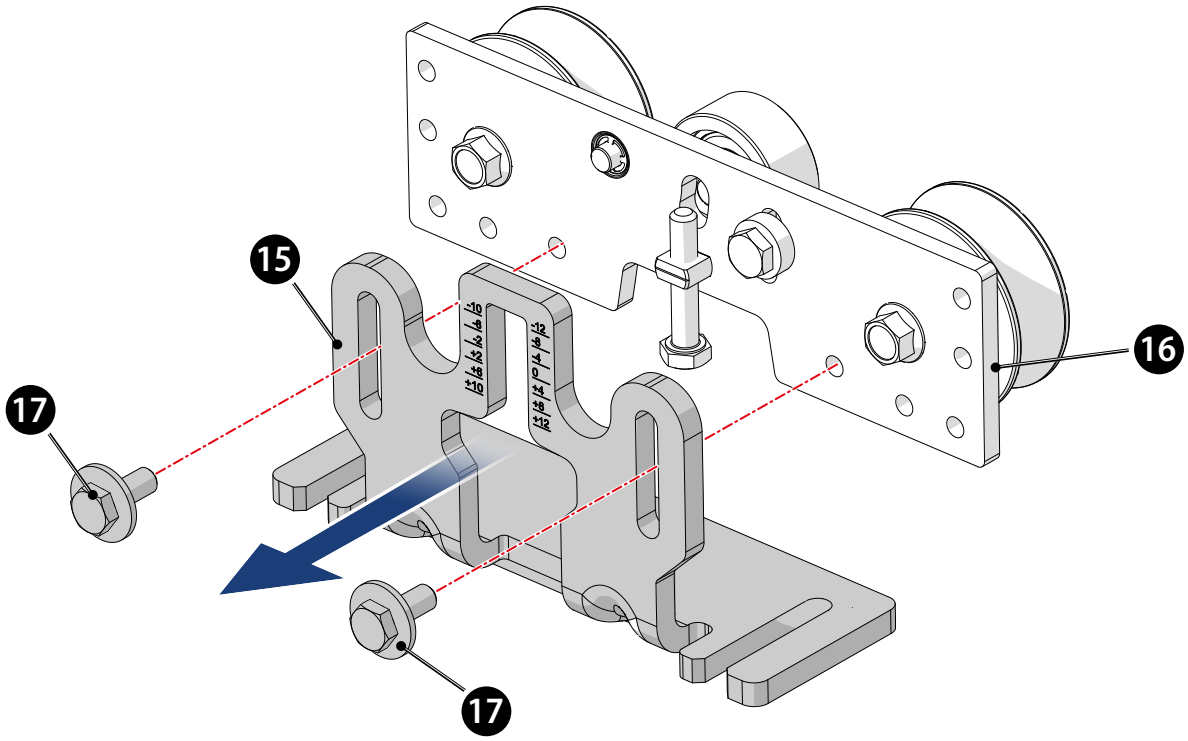
A. mount the carriage (**16**) with the bracket (**15**).

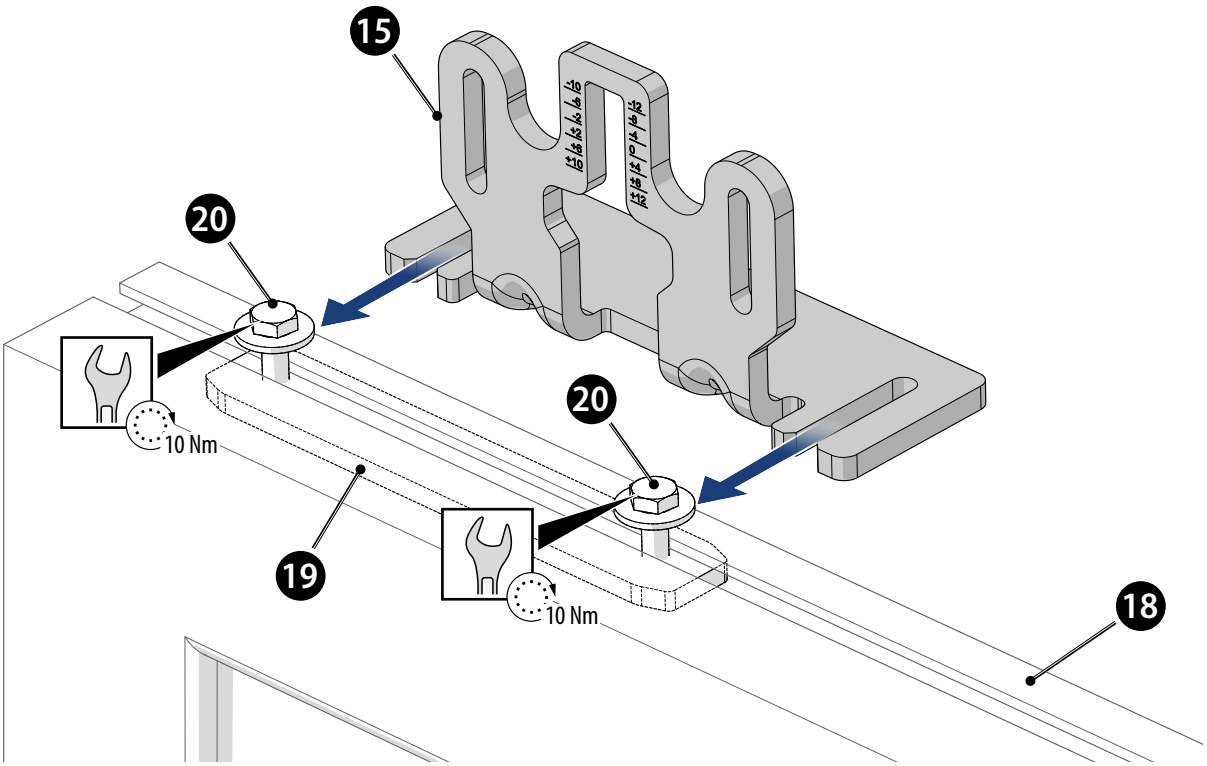
B. mount the carriage (**16**) without the bracket (**15**) directly onto the leaf.



In configuration **B**, the bracket (**15**) must be removed from the carriage (**16**) before the carriage is mounted on the automation:

4. Unscrew the screws (**17**) and remove the bracket (**15**) from the carriage (**16**).
5. Fix the bracket (**15**) to the leaf (**18**) using the fixing plate (**19**).
6. Tighten the screws (**20**).

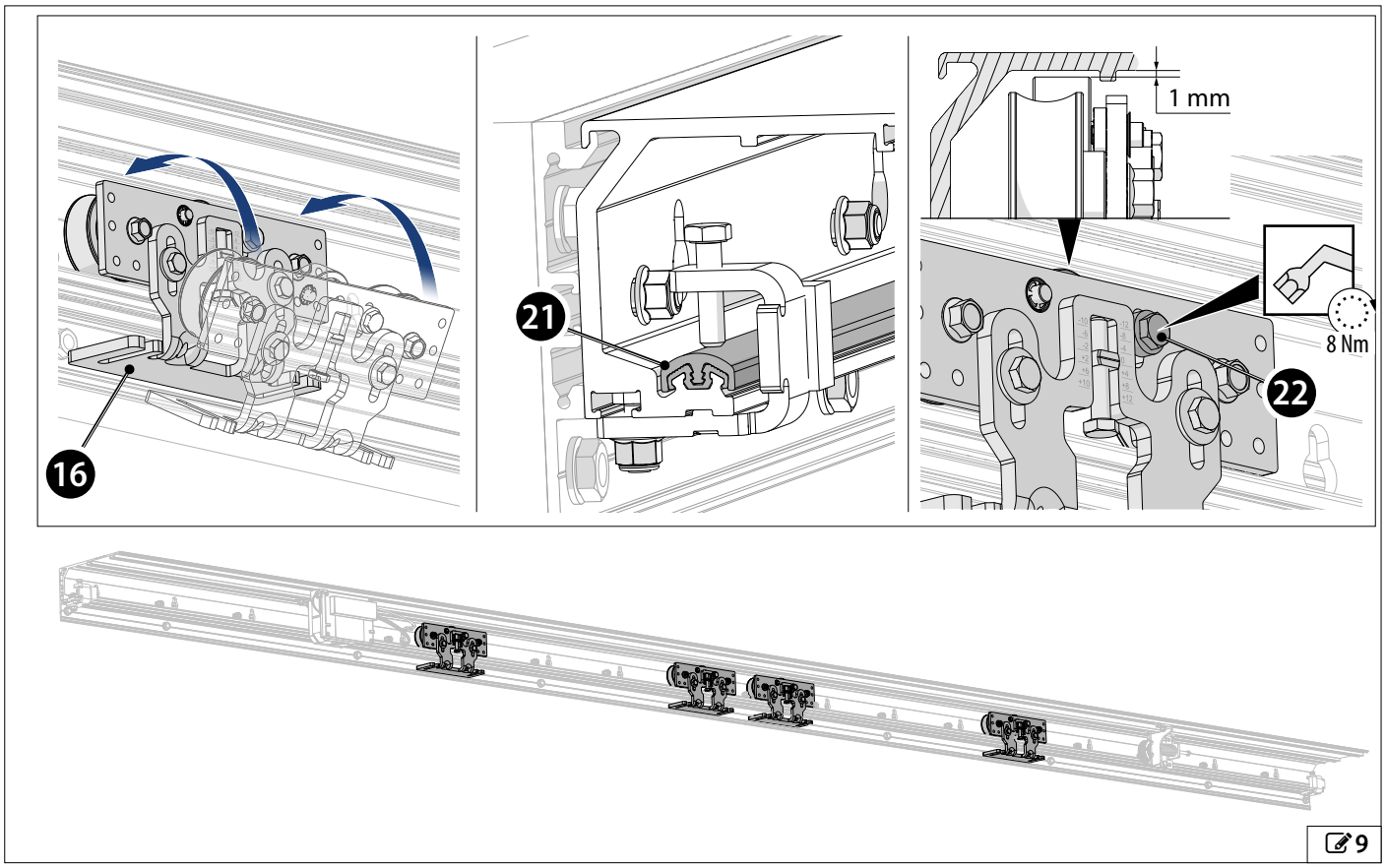




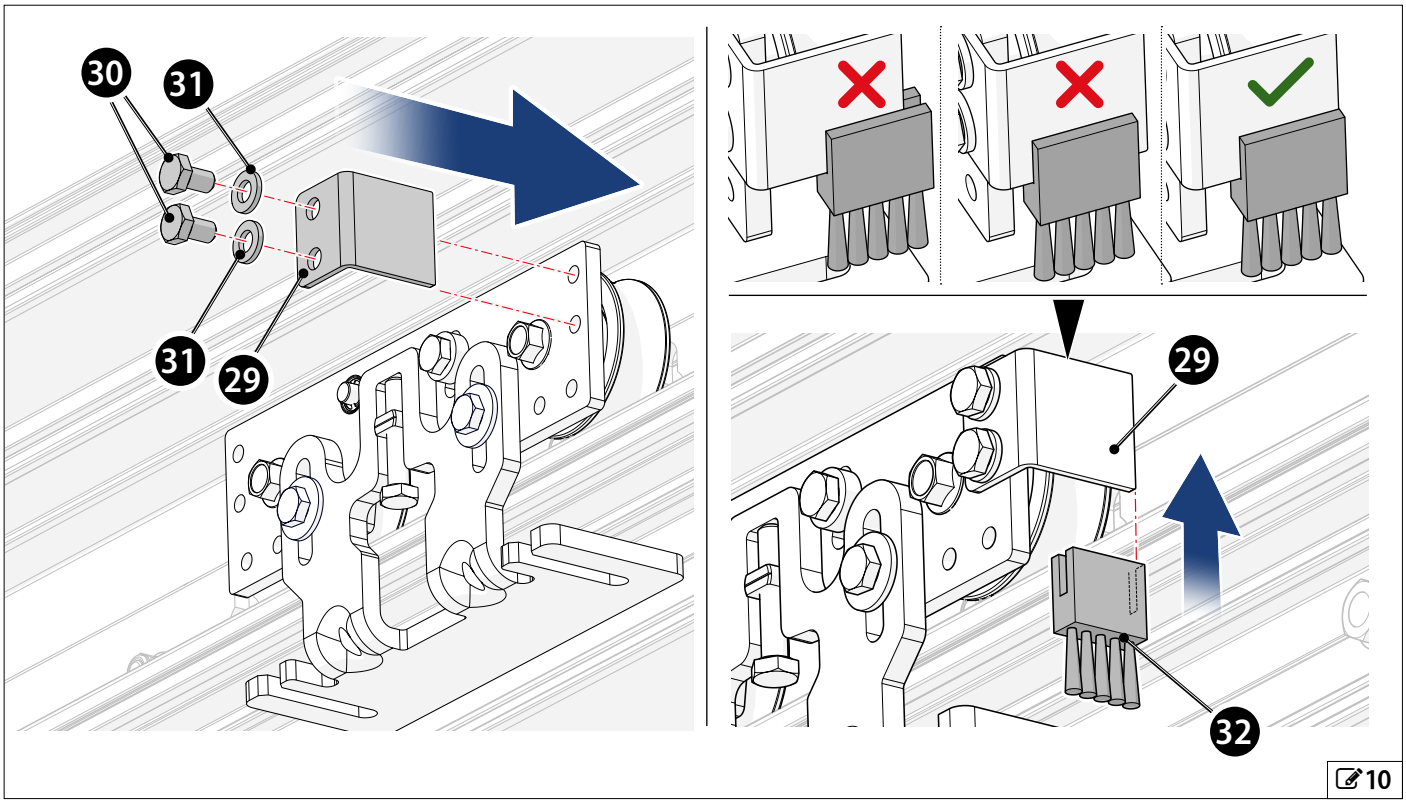
8

The following figures show the carriage in configuration A, but the following procedure for mounting the carriage on the automation is also valid for configuration B.

7. Mount the carriages (**16**) on the guide (**21**).
8. Adjust the position of the carriage (**16**) so that the distance between the counter wheel and the profile is 1 mm.
9. Tighten the screw (**22**) to fix the carriages (**16**) in position.



10. Fix the plate (**29**) to the carriage using the screws (**30**) and washers (**31**).
11. Slide the brush (**32**) onto the plate (**29**).



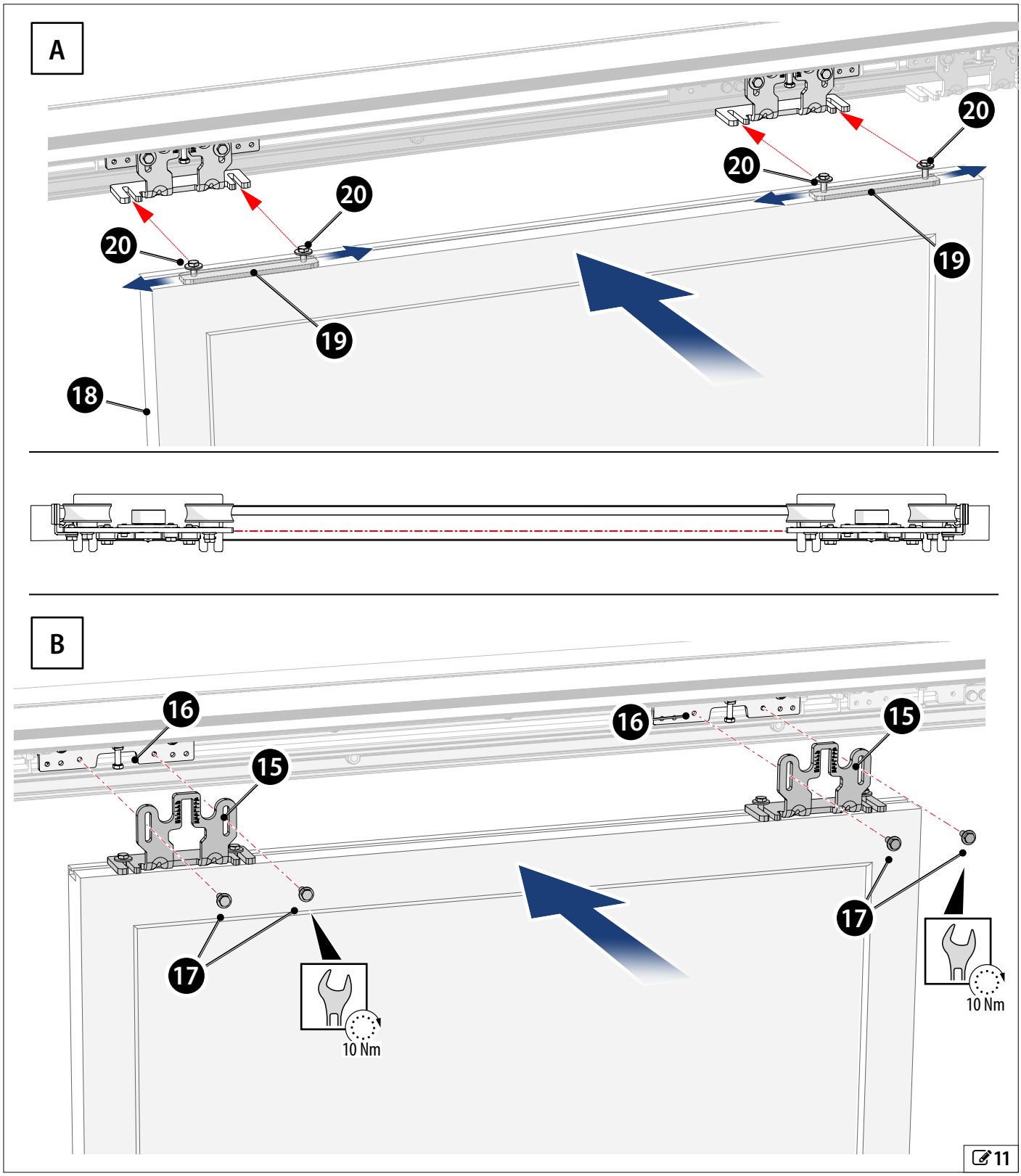
The way in which the leaf is mounted on the automation depends on the mode (**A** or **B**) previously selected.
Adjust the leaf attachment plates, keeping the carriages aligned.

■ **CONFIGURATION A**

12. Loosen the screws (**20**).
13. Position the brackets (**19**) in line with the corresponding carriages.
14. Insert the leaf (**18**) into the open slots on the carriage brackets.
15. Tighten the screws (**20**).

■ **CONFIGURATION B**

16. Insert the leaf (**18**) in correspondence with the holes in the carriages (**16**) and secure using the screws (**17**).

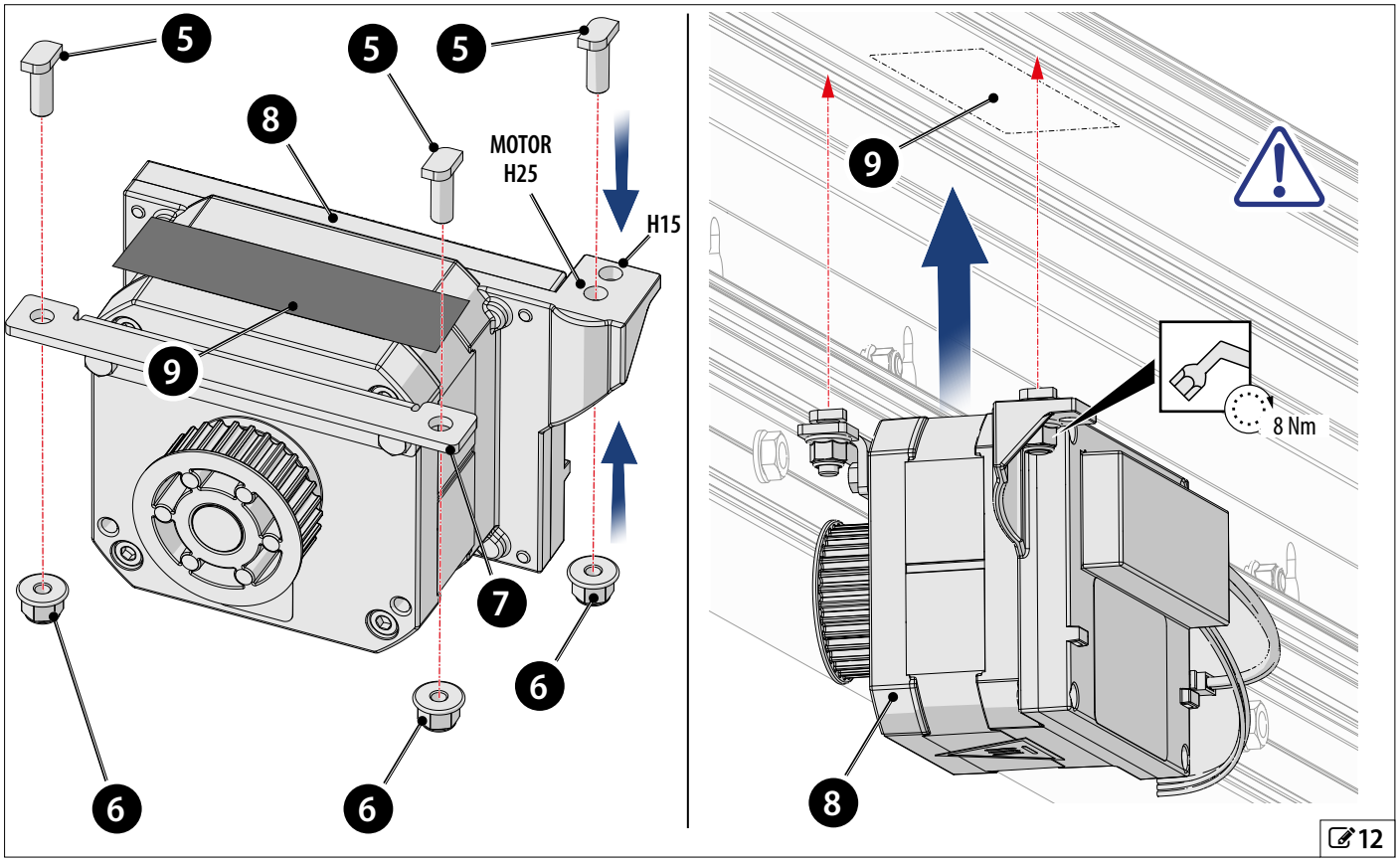


7.5 MOUNTING THE AUTOMATION KIT COMPONENTS

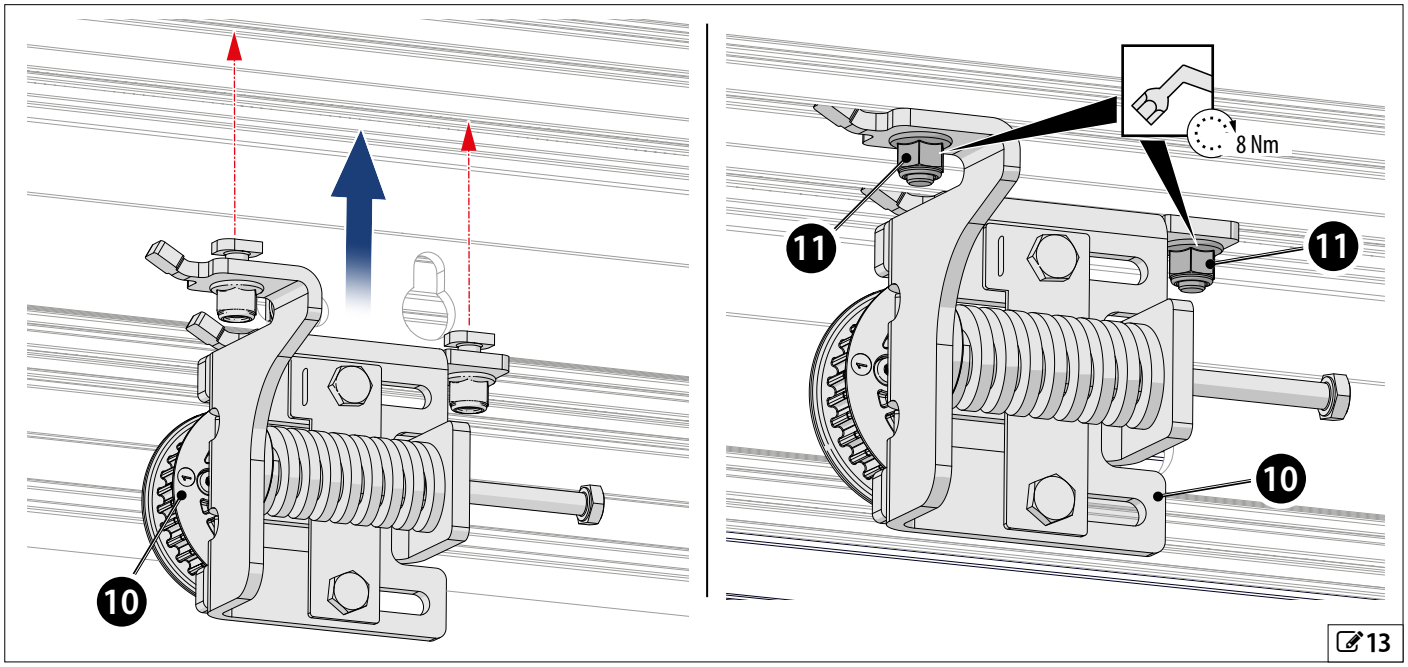
1. Fit the screws (**5**) and nuts (**6**) in the holes of the motor (**8**) support plate (**7**).
2. Check that the **heat dissipation insulating tape** (**9**) remains on the cover at the motor mounting point.
3. Mount the motor (**8**).
4. Tighten all the nuts (**6**).

Refer to installation diagrams and measurements (ONLINE) for the position of the components

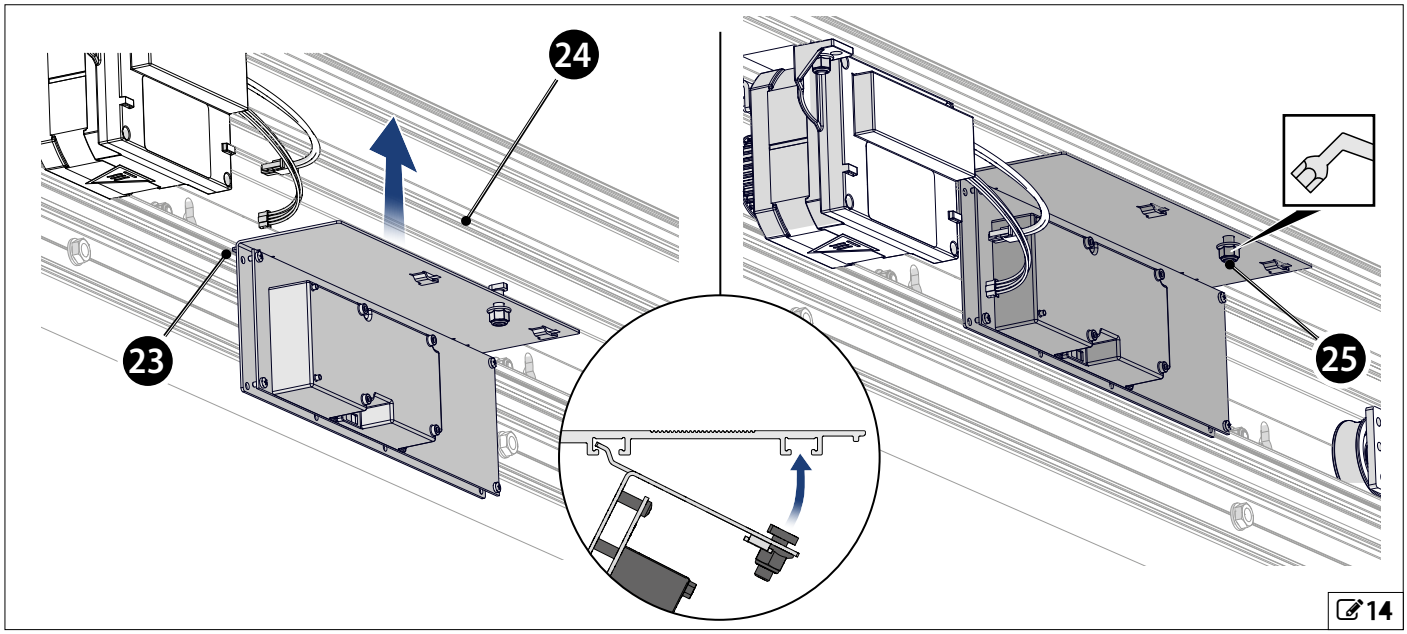
■ INSTALLATION DIAGRAMS



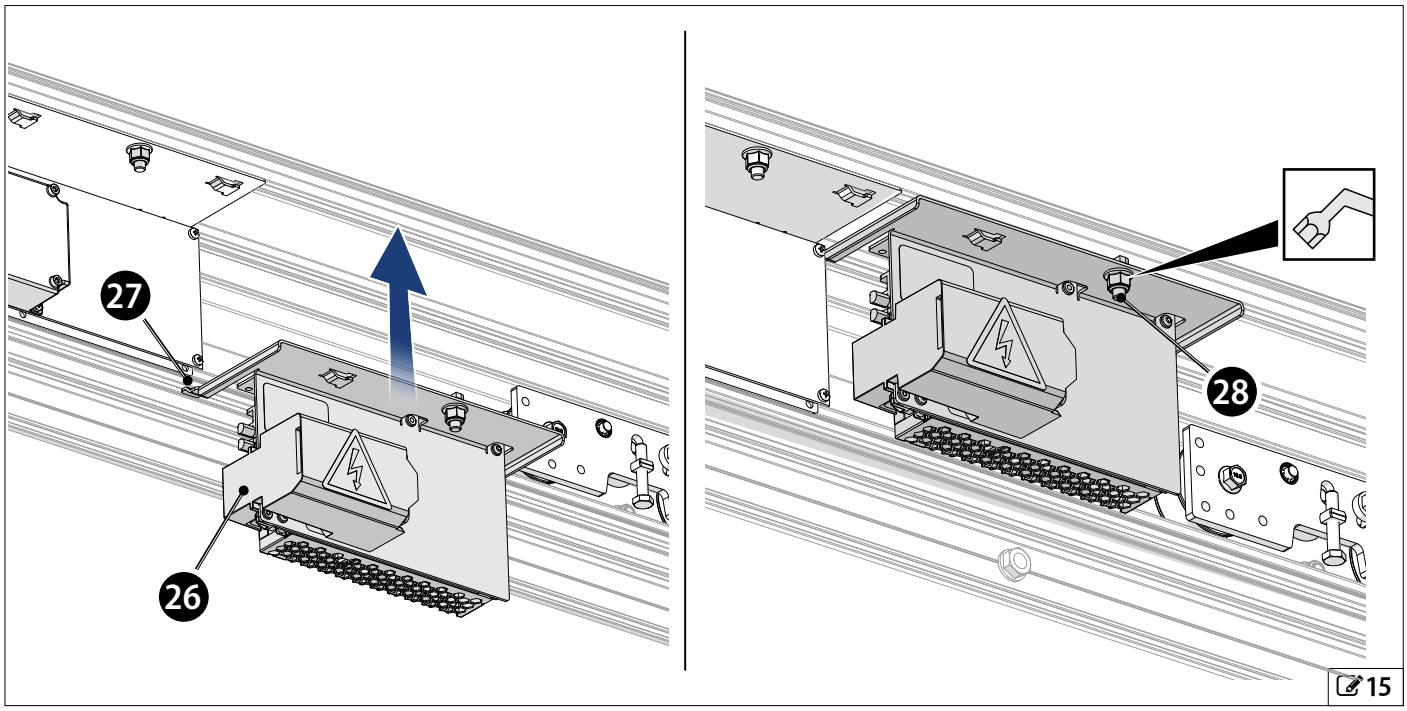
5. Mount the tensioner (**10**).
6. Tighten all the nuts (**11**).



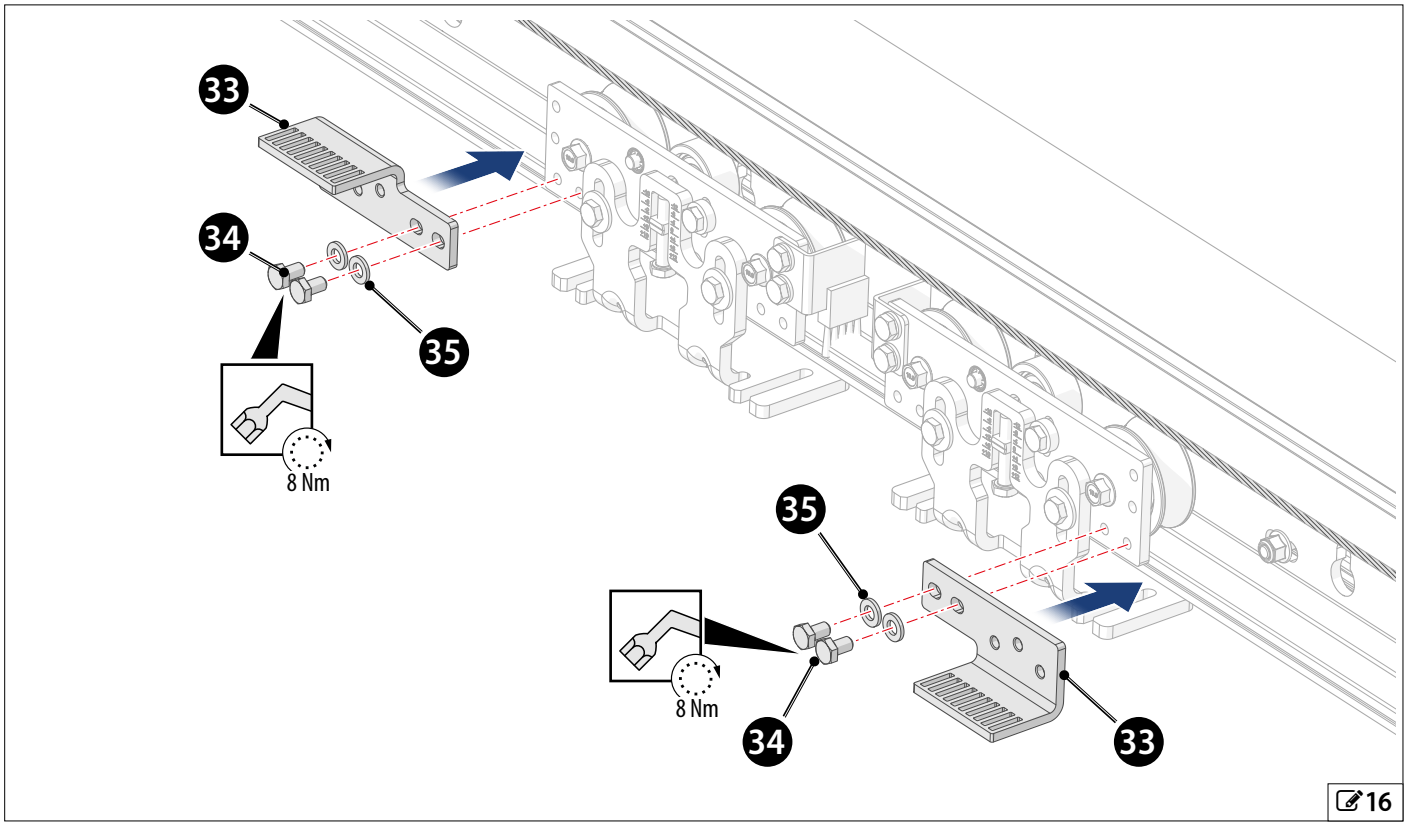
7. Position the electronic board support by inserting the interlocking teeth (**23**) of the support into the profile (**24**).
8. Tighten the nut (**25**).



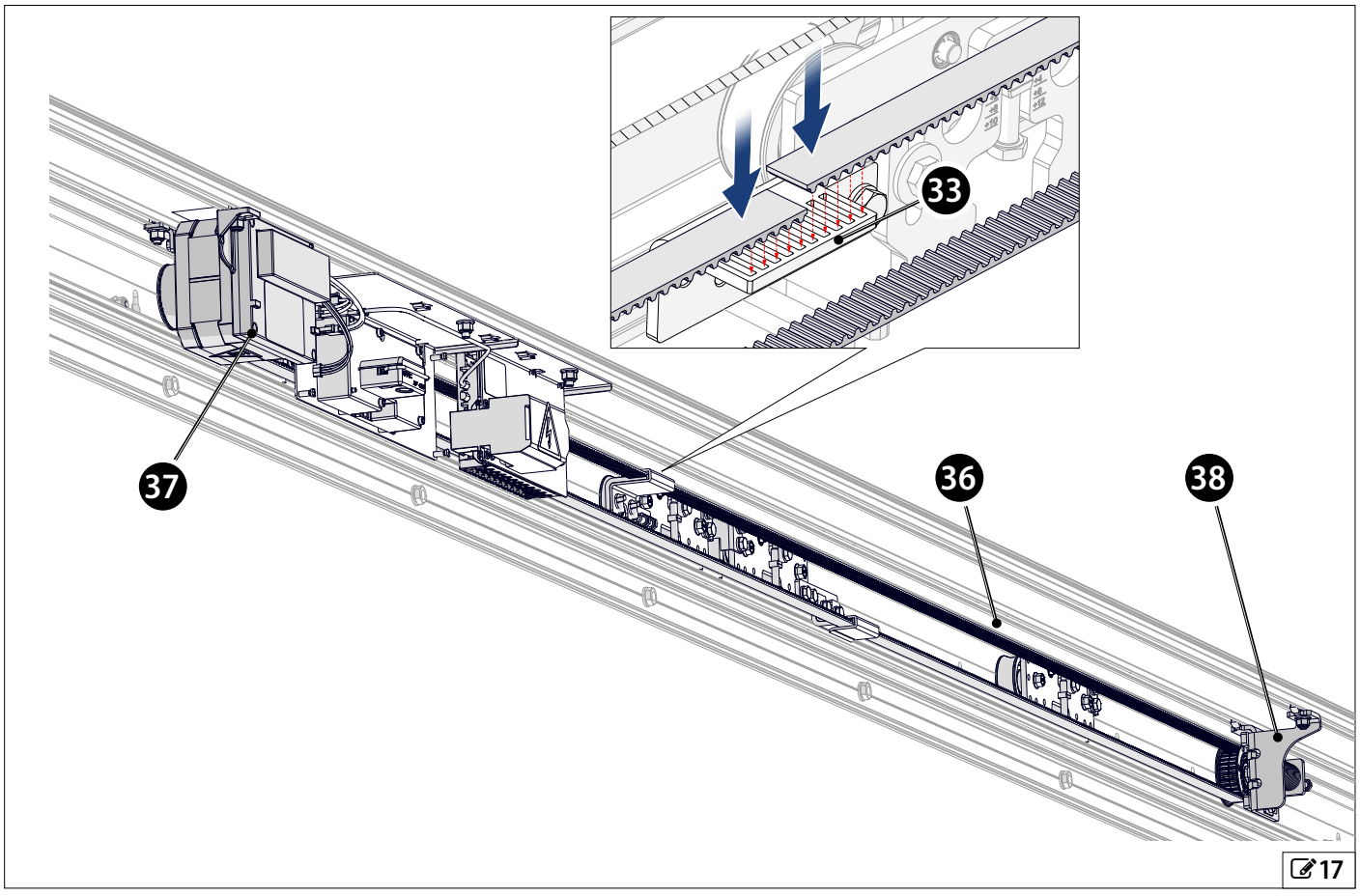
9. Position the power supply (**26**) on the support by inserting the interlocking teeth (**27**) of the power supply into the profile.
10. Tighten the nut (**28**) in the hole of the power supply support.



11. Fasten the belt mounting brackets (**33**) to the carriages using the screws (**34**) and washers (**35**).



12. Insert the belt (36), passing it behind the motor unit (**37**) and the tensioner unit (**38**).
13. Join the belt (**36**) by inserting it into one of the mounting brackets (**33**), making sure that there are 5 teeth at both ends.

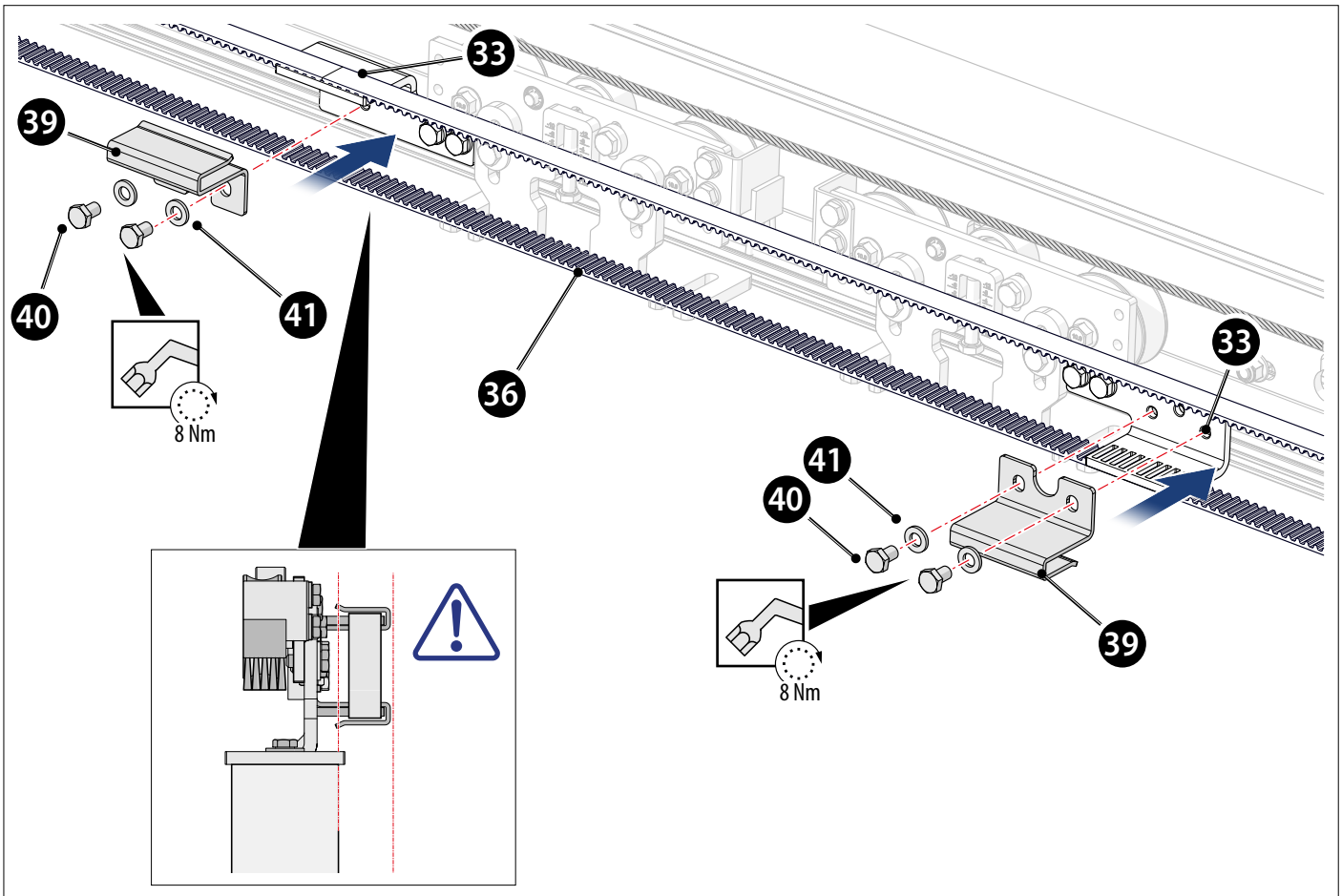


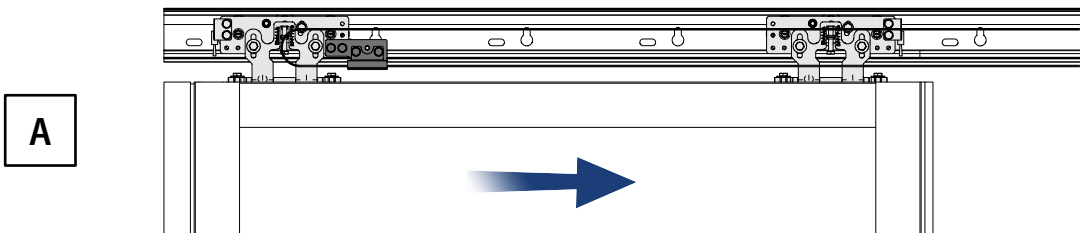
14. Position the locking bracket (**39**) of the belt (**36**) and secure it to the mounting bracket (**33**), hooking the belt into the clamp between the two brackets using the screws (**40**) and washers (**41**).

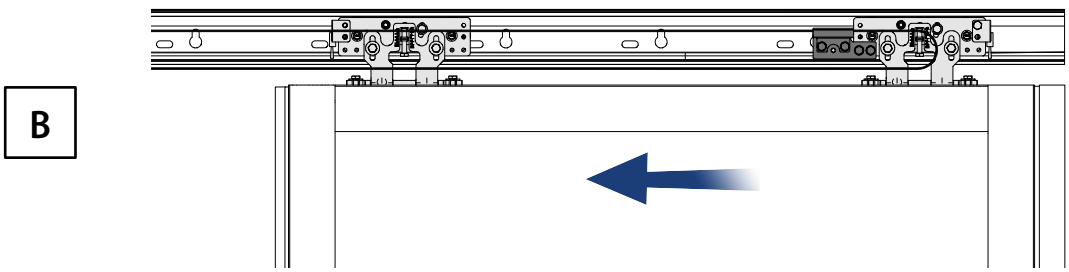
Make sure that the alignment between the belt coupling bracket and the leaf is correct to avoid interference with the board support.

■ **FOR A SINGLE LEAF**

Refer to the detailed views for assembling the single leaf coupling bracket with a right (**A**) and left (**B**) opening.

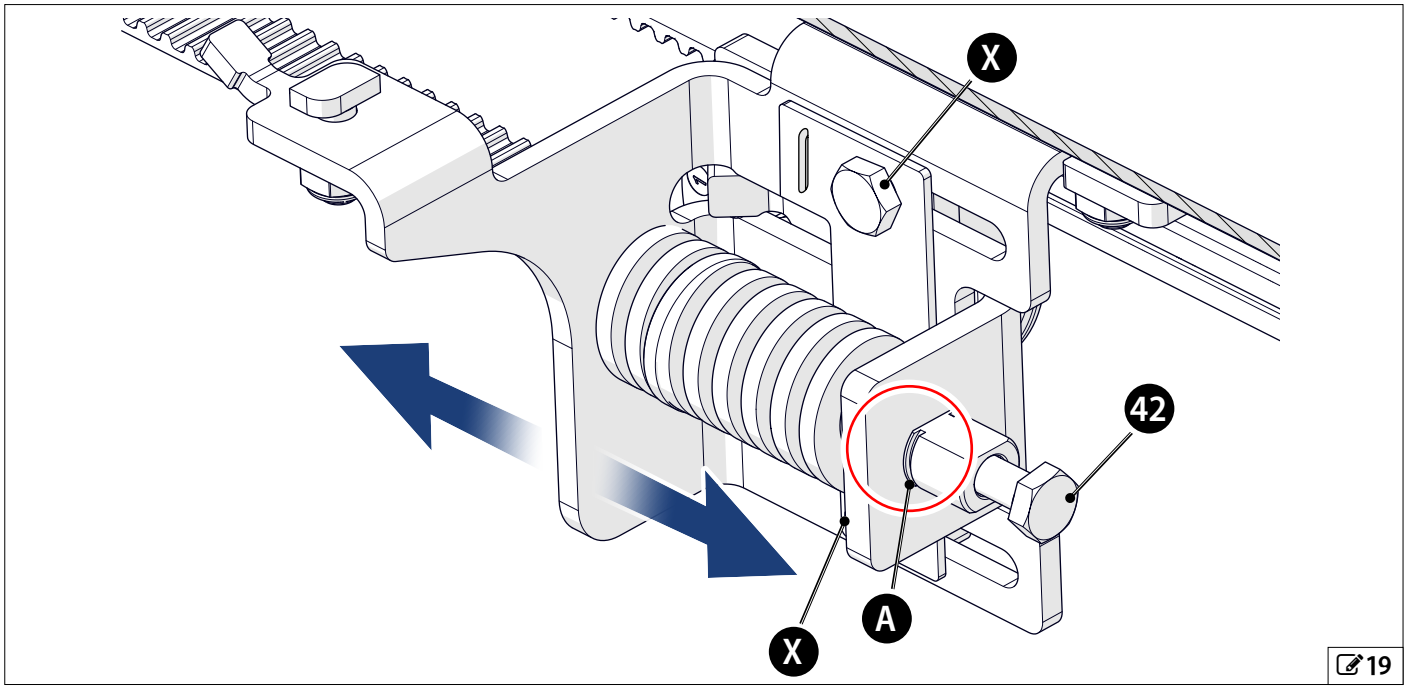






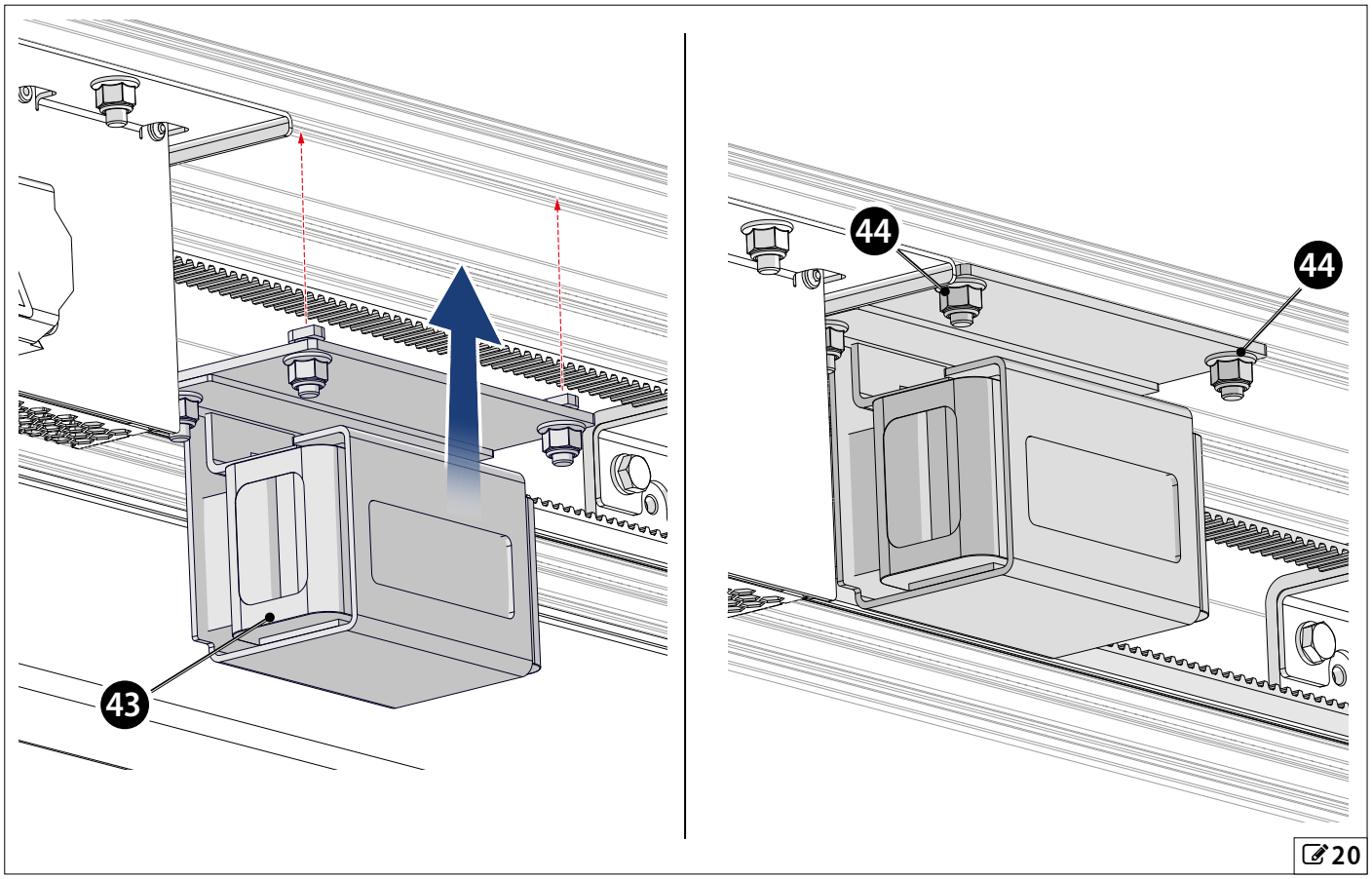
18

15. Adjust the belt tension by loosening the two screws (**X**) and turning the screw (**42**) until the notch (**A**) is visible. Tighten the two screws (**X**).

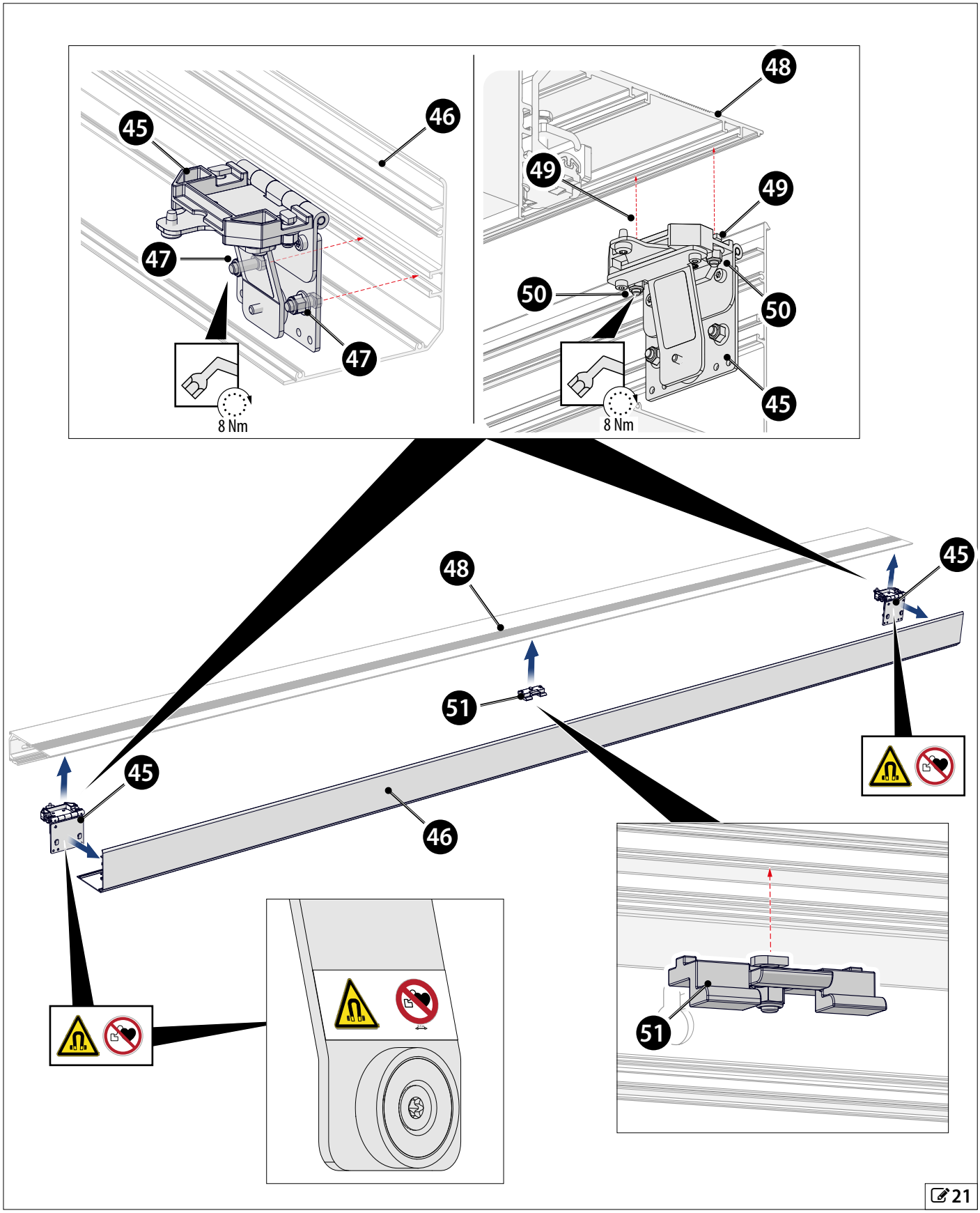


16. Position the battery (**43**).
17. Tighten the nuts (**44**).

Use original FAAC batteries.



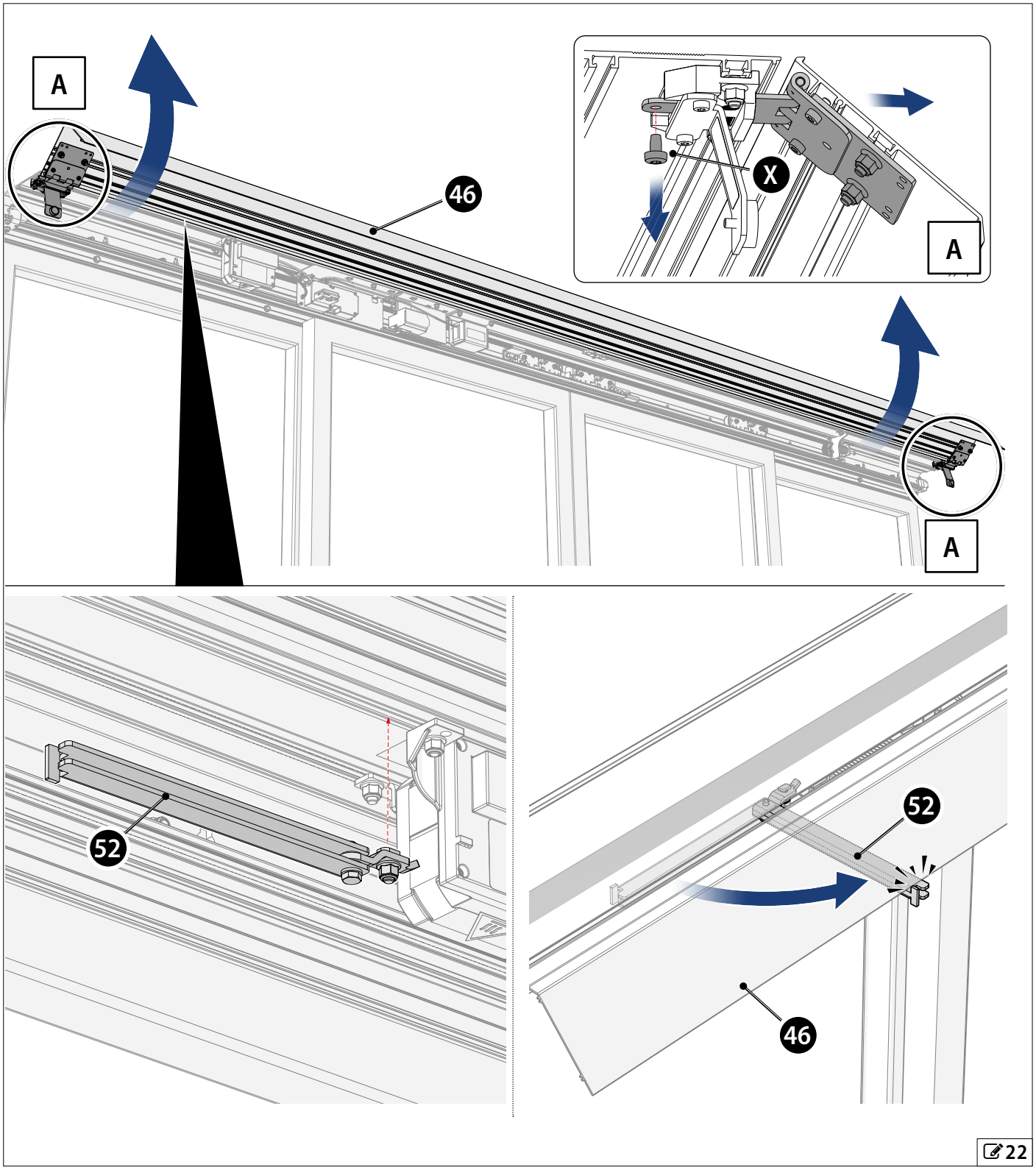
18. Insert the hinges (**45**) into the cover (**46**).
19. Tighten the nuts (**47**).
20. Fasten the hinges (**45**) to the upper profile (**48**) using the screws (**49**) and nuts (**50**).
21. For automations with a width greater than **2000 mm**, it is also necessary to fit the stabiliser (**51**) to prevent the central part of the casing from bending.



22. Lift the cover (**46**) and complete the installation of the remaining components.
23. Fit the optional support arm (**52**) to support the open cover (**46**) during maintenance.

The support arm can be fitted before the hinges to support the cover while the hinges are being fitted.

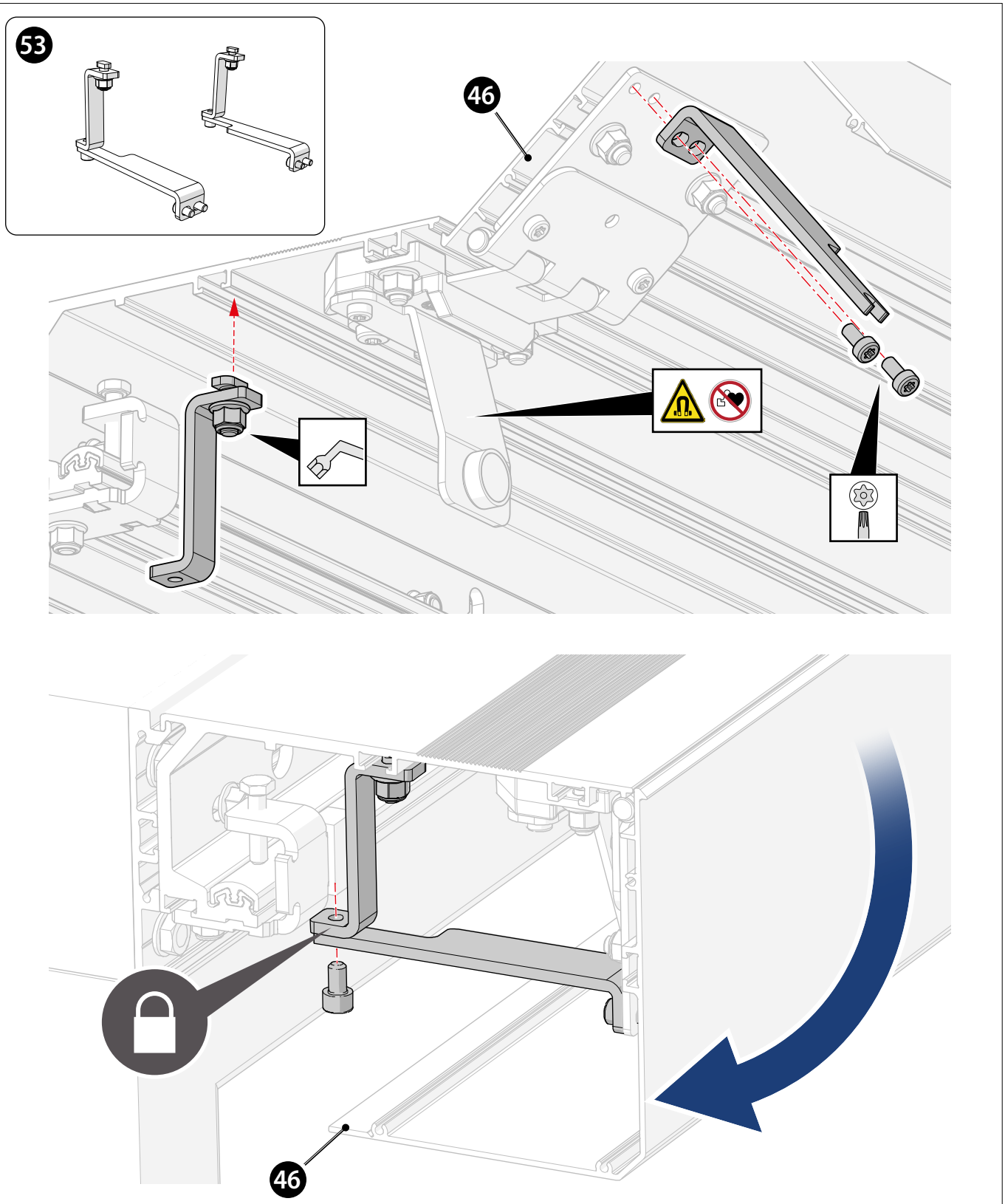
In applications where it is not possible to open the cover completely (distance from the ceiling less than 70 mm, the limit stop screw (**X**) can be unscrewed to remove the casing (detail **A**). Once the cover is in position, the limit stop screw (X) must be tightened to prevent accidental falling during operation.



22

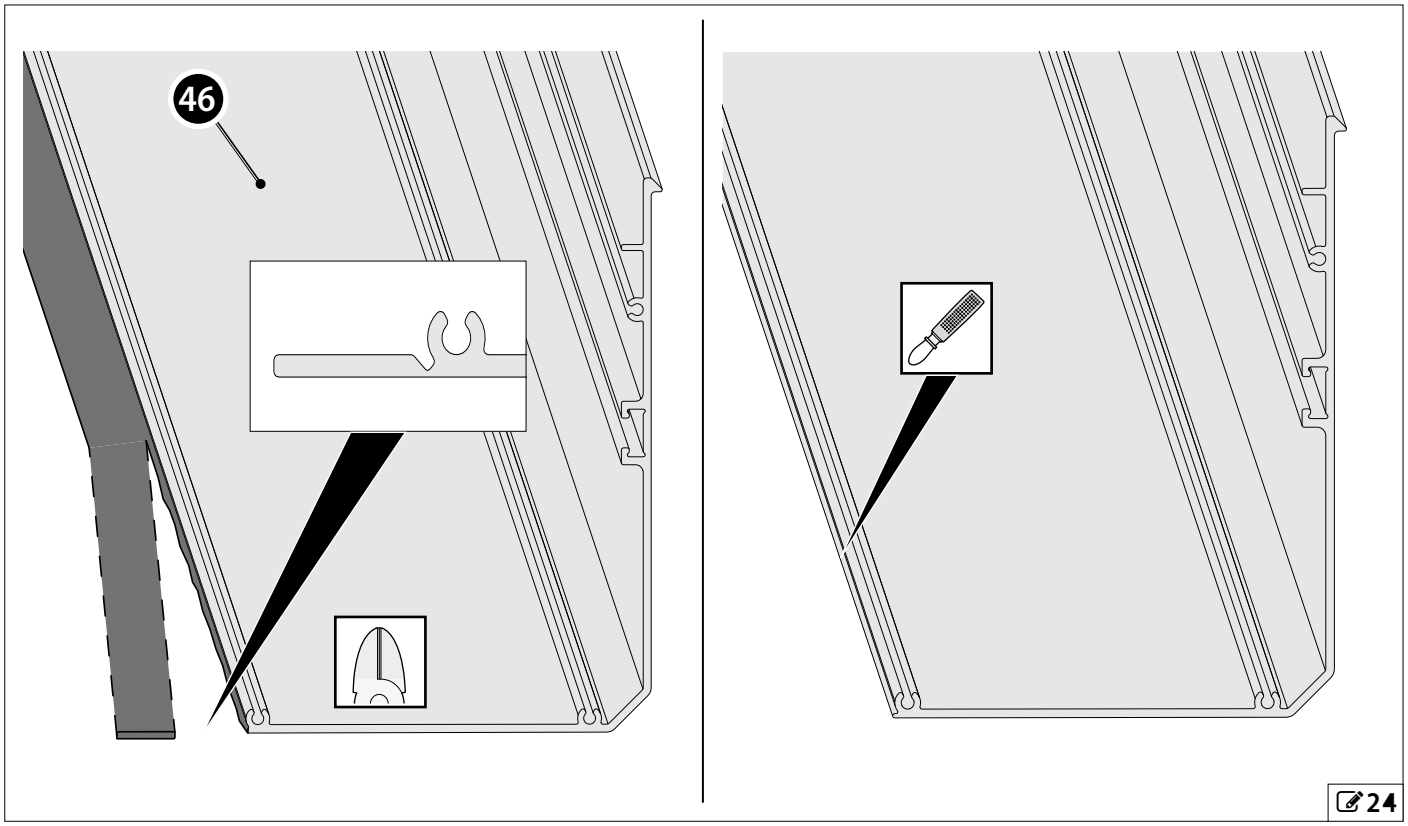
Check that the support arm (52) does not interfere with the automation components.

24. For installations with an automation height of less than **2500 mm**, fit the optional cover lock kit (**53**) to prevent accidental opening of the cover (**46**).



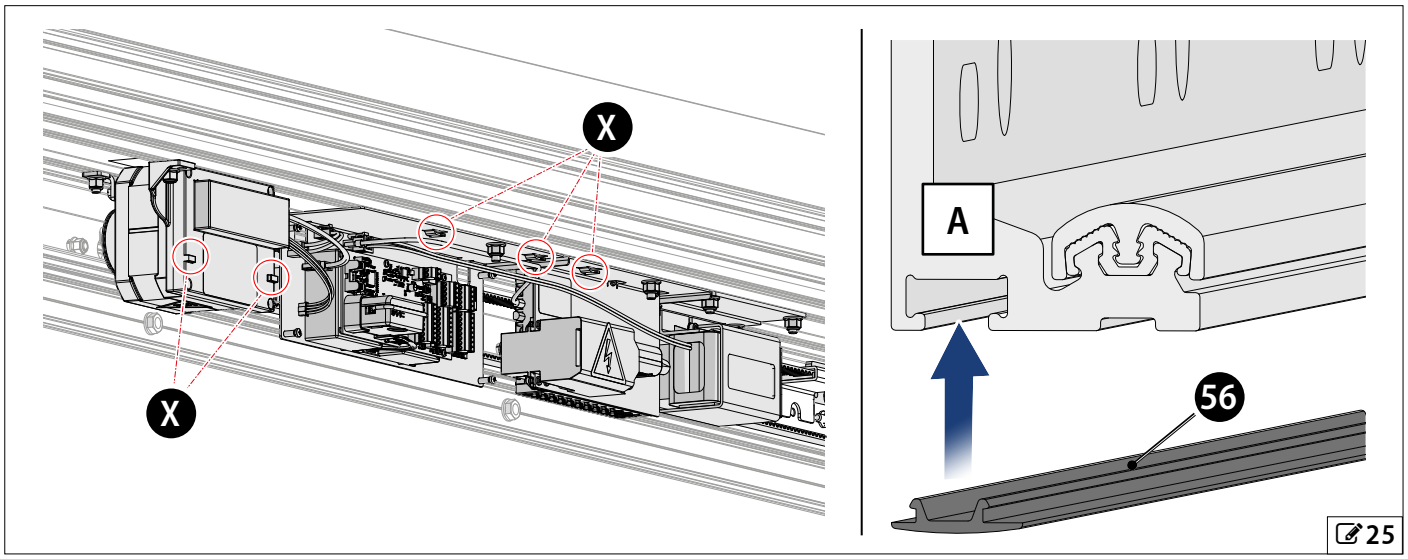
23

In the case of large leaves or where a greater adjustment of the leaf depth is required, the pre-cut in the casing (46) can be used to shorten its length.
Any burrs must then be removed.

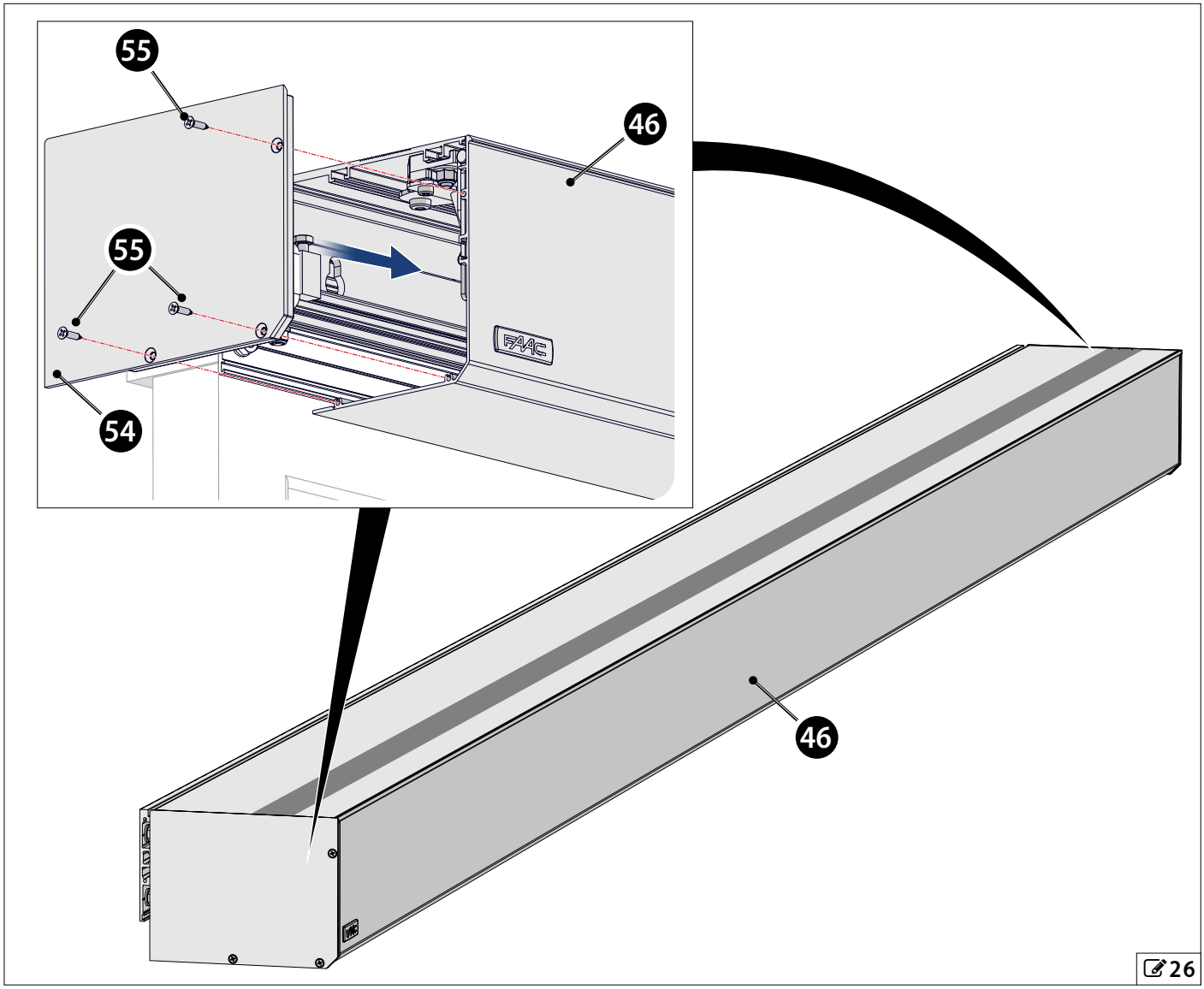


25. Wire the components (see E3SL instructions) and prepare the cable entry.

The tabs on the motor, electronic board and power supply can be used to secure the cables with cable clamps (see detail X).
The (optional) lower sealing gasket (**56**) can be inserted into slot **A** to secure cables.



26. Install the side profiles (**54**) on both ends using the screws (**55**).
27. Close the cover (**46**).



8. MAINTENANCE

In order to keep the system operating safety and efficiently and to reduce the number of malfunctions and breakdowns, ROUTINE MAINTENANCE and the PERIODIC REPLACEMENT of parts must be carried out as indicated in the relevant sections.

ROUTINE MAINTENANCE must be performed every 6 months.
Frequency of replacements is indicated based on number of operation cycles for components subject to wear; in years for components subject to deterioration.
The installer/maintenance technician must comply with the safety instructions and recommendations provided in this manual.
The warranty shall be forfeited in the event of tampering with components.
Only use original FAAC spare parts.

CALCULATION ESTIMATE OF CYCLES PERFORMED

If there is a fault on the E3SL board and the cycle counter data is lost with error code **53**, the number of cycles performed since the last service should be estimated.

The installer is responsible for specifying parameters R1, R2 and R3.

R1 = number of days elapsed since the last motor replacement (see SYSTEM REGISTER)

R2 = number of hours of operation per day

R3 = door cycle time (opening time + pause + closing time)

R4 = R1 * R2 *3600

ESTIMATED NUMBER OF CYCLES: R4 / R3

8.1 SCHEDULED MAINTENANCE

OPERATION	
Check automation fastening to the wall	check the support profile is solidly secured to the wall in the case of installation with a mounting profile: check the fixing screws between the support profile and the mounting profile
Check the fastening of the Motor and return Pulley	check screws securing the motors on the support profile
Check on carriages	check screws securing to the leaf check and adjust the counter wheels of carriages and leaf depth and height screws
Check mechanical stops	check position of mechanical stops and fixing screws
Belt tensioning check	check belt tensioning
Cleaning	clean: Sliding Guide; Lower Guide Shoe; Carriages
Functional system check	perform required checks and procedures to ensure integrity of the load bearing structure and leaf frames perform functional checks

8.2 PERIODIC REPLACEMENTS

PART/COMPONENT	FREQUENCY		Replacements
	Operation cycles	Time (years)	Recommended / Mandatory
Motor	2 000 000	--	Recommended
Return pulley	2 000 000	--	Recommended
Lower guide shoe	2 000 000	--	**Mandatory**
Carriages	2 000 000	--	**Mandatory**
Belt	2 000 000	5	**Mandatory**
Limit stop rubbers	2 000 000	5	**Mandatory**
Buffer battery	--	1	Recommended
Safety cables	--	5	**Mandatory**

8.3 REPLACEMENT PROCEDURES

Before carrying out any maintenance, disconnect the mains power supply and disconnect the emergency battery.

■ **EVERY 2 MILLION CYCLES**

1. Slacken the belt and remove it after releasing it from the carriages.
2. After removing the screws, remove the motor and the return pulley unit from the support profile.
3. Loosen the screws on each carriage and lower the leaves until they rest on the floor.
4. Separate the leaves from the carriages by removing the screws.
5. Temporarily store the leaves away, using all precautions to prevent risks of fall.
6. Loosen the screw and lower the counter wheel in order to remove each carriage.
7. Remove the mechanical stops.
8. Remove the lower guide shoe.
9. Install the new shoe.
10. Install the new motor and the new return pulley unit.
11. Tighten the screws.
12. Place the new rubber bumpers on the mechanical stops and reassemble the units on the guide.
13. Mount the new carriages onto the leaves.
14. Install and adjust the leaves.
15. Install and adjust the new belt after it has been secured to the carriage fittings.
16. Adjust the new mechanical stops.

■ **EVERY 1 MILLION CYCLES**

Carry out steps 1, 2, 10, 11 and 16 of the sequence for 2 million cycles.

■ **REPLACING THE BELT**

Only perform steps 1 and 15 of the sequence for 2 million cycles.

■ **REPLACING THE MECHANICAL STOPS**

Only perform steps 7 and 12 of the sequence for 2 million cycles.

■ **REPLACING THE EMERGENCY BATTERY**

1. After disconnecting the power supply, disconnect the battery from the E3SL board.
2. Loosen the 2 screws and nuts and remove the battery.
3. Install the new battery.
4. Connect the battery to the E3SL board.

■ **REPLACING THE ELECTRONIC BOARD**

It is recommended that you download the data to a USB storage device in order to update (upload it to) the new board with them.

1. Remove the screws.
2. Remove the board from the support.
3. Insert the new board in the seats.
4. Tighten the screws.
5. Restore all connections.
6. Program the new board.
7. Carry out the SETUP procedure.

■ **REPLACING THE FUSES**

1. After disconnecting the power supply, carefully remove fuses F1, F2 and F3 using a screwdriver as a lever.
2. Assemble the new fuse.

Only use the types of fuse indicated.

8.4 CLEANING

Before carrying out any maintenance, disconnect the mains power supply and disconnect the emergency battery.

Use clean soft cloths to remove dust. Moisten the cloth to remove dirt. Dry parts with clean, dry and soft cloths.
For parts that are hard to reach, use brushes with soft bristles.

DO NOT use detergents on optical devices and electronic displays (e.g. photocell lenses).
Do not moisten parts. In particular, do not moisten electrical connections and components in any way.
NEVER use direct water and compressed air jets neither for cleaning nor drying.
Ensure all components are dry after cleaning.

■ **Cleaning products for plastic material parts**

With the exception of optical devices and electronic displays, water and neutral detergent solutions are allowed (in the concentration indicated by the manufacturer). Use detergents at ambient temperature (max. 30°C).
DO NOT use alkaline, acid or base solutions, benzene, acetic acid or solvents of any kind: these products may damage the surfaces of the materials.

■ **Cleaning products of steel or aluminium parts**

Water and neutral detergent solutions are allowed (in the concentration indicated on the detergent packaging). 95% methylated spirit diluted at 50%. In case of oily dirt, use 70% solutions of isopropyl alcohol.
DO NOT use solutions of acetic acid, acid or base solutions, ethyl alcohol.

8.5 FUNCTIONAL CHECKS

Connect power supply and emergency battery only after tidying up the area.
In case of failures or malfunctions, please refer to the E3SL instructions.

Command some movements to check correct operation:
- movements correctly executed, according to logics and settings
- regular and smooth leaf movement
- end of run slowing down correctly executed
- drawing to the stops on opening and closing without any shocks
- smooth operation of the belt/leaf stop
- working efficiency of emergency battery: disconnect the mains power supply and ensure that the door opens and remains open (safety condition)
- efficiency of safety detectors (the radar field must be free and adequately sized with respect to passage flow)
- operation of EMERGENCY button (if present) and any other accessories installed.

9. WASTE DISPOSAL

After taking down the automation, dispose of it in compliance with the material disposal regulations in force.

1 MOUNTING SUBSTRATES

MAXIMUM LOAD SYSTEM CONFIGURATIONS

The AS3000 is an automation system for sliding doors with an architrave-anchored guide system; it is available in various configurations:

1. NORMAL SINGLE LEAF
2. NORMAL DOUBLE LEAF
3. SINGLE TELESCOPIC LEAF
4. DOUBLE TELESCOPIC LEAF

Configuration	Leaf	Weight [kg]	Lmin [m]	Lmax [m]
1	mobile leaf	300	0.75	3
2	mobile leaf	200	0.45	1.5
3	mobile half-leaf	150	0.45	1.5
4	mobile half-leaf	100	0.475	0.75

The guide can be installed in 3 ways:

A. DIRECT WALL MOUNTING (ARCHITRAVE)
B. MOUNTING WITH INTERFACE PROFILE

ARRANGEMENT OF ANCHORS

For direct wall mounting, there is an anchor every 200mm, while vertically the anchor is placed 71mm from the top of the profile.

For the interface profile configuration, there are 2 rows of staggered anchors with a centre to centre spacing of 500mm in each row. The distance between the rows is 60mm while the distance from the top of the bracket to the first row is 24.5mm.

PERMISSIBLE SUBSTRATES

It is assumed that substrates made of materials commonly used in construction will be used for fixing the automation:

- CONCRETE
- CONCRETE AND MASONRY (COMPARABLE TO CONCRETE)
- SOLID BRICK (VOIDS < 15%)
- WOOD
- STEEL

SUBSTRATE CONDITION

Before installation, you should carefully check the condition of the existing substrate that the system will be anchored to; this substrate must be in good condition without any evident cracking or patching up; more specifically, by substrate type, the following requirements apply:

■ CONCRETE ARCHITRAVE

The attachment surface must be homogeneous and compact, without voids or flaking due to corrosion caused by carbonation.

■ SOLID BRICK ARCHITRAVE (VOIDS <15%)

The attachment surface must be homogeneous, without any cracked brickwork. In the case of previous installations, the position of the new holes must not coincide existing holes and you must keep to the minimum distance from the edges. The mortar joints must not come away simply by running a hand tool over them and the wall must have been faced to a good standard.

■ STEEL

Steel architraves must show no signs of corrosion and must be treated with anti-corrosive passivating agent.

A minimum anchoring thickness of 1.5 mm is recommended. For steel leaf frames, the same requirements apply as for architraves.

■ ALUMINIUM

Aluminium leaf frames must not show any signs of impact damage; the minimum thickness for riveted joints or joints made with self-tapping screws must be at least t = 2 mm.

■ WOOD

Wooden architraves must not show any sign of rot or damp, and must not have been previously used, cut or damaged.

For wooden door frames, the same requirements apply as for architraves; The minimum anchoring thickness must be at least 60 mm.

MINIMUM ANCHOR DISTANCES FROM EDGES

The following minimum anchoring distances (distance from the intrados edge of the architrave or from the edge of the mobile leaf frame) have been determined after examining the instructions provided by the main suppliers:

SUBSTRATE MATERIALS	C_{min}(mm)
CONCRETE	50
STEEL	30
WOOD[1]	5d[2]

[1] For solid wood with a C14 strength class and a density of ρ=350kg/m3 as per EN 338 – a pilot hole should be drilled in anchoring wood thicknesses of less than 60mm.

[2] Where "d" is the diameter of the screw (for 6 mm screws Cmin = 30mm).

TYPES OF ANCHORS

Many types of anchors can be used. The type chosen mainly depends on the following factors:

- type of substrate
- maximum load to be supported
- distance of the anchors from the edges

For the permissible substrates indicated above, we suggest several types of fastenings made by well-known manufacturers (FISCHER, HILTI, WURTH and FAR for rivets). This does not mean that you cannot select other products; however, you should check their maximum load carrying capacity in the technical data sheets.

■ MASONRY AND CONCRETE

Polyamide and metal mechanical expansion anchors are used for concrete and masonry; the recommended diameters of the screw are M6 and M8 while the diameter of the dowel is 8 and 10 mm.

■ STEEL AND ALUMINIUM

Self-tapping screws with diameters of 4.2 - 6.3mm or steel rivets with diameters of 4 - 6mm should be used for steel and aluminium.

■ WOOD

For wood, 6 mm diameter self-tapping screws are recommended.

The following table summarises the main characteristics and types of anchor and their relative load carrying capacity according to the substrate (information taken from the fastener manuals of the relative manufacturers):

TYPE OF SUBSTRATE	MANUFACTURER PRODRUTTRICE	MODEL	DIAMETER d (mm)	TRACTION $N_{rd,c}$ (kN)	SHEAR RESISTANCE $V_{rd,c}$ (kN)	C_{min} (mm)
CONCRETE[3]	FISCHER[4]	DUOPOWER 8x40	6	1.26	1.26	50
	FISCHER	FAZ II PLUS 8	8	2.6	8.5	50
	HILTI	HRD 8	6	1.1	5.2	50
	HILTI	HST	8	2.8	2.8	45
SOLID BRICK[5]	FISCHER[6]	DUOPOWER 8x40	6	0.63	0.63	50
	HILTI	HRD 8	6	0.48	1.2	50
STEEL	Würth	Self-tapping for steel	4.2 – 6.3		> 2.00	30
	FAR[7]	Steel rivets	4	1.07	0.77	30
WOOD[8]	ROTHOBLASS	HBS	6 x 50	3.37	2.05	5d
ALUMINIUM	FAR[9]	Steel rivets	4	1.07	0.77	30

[3] For structural concrete having a minimum strength of C20/25

[4] Not suitable for double telescopic leaf applications

[5] For solid bricks having a minimum density of 18 kN/m^3, a minimum compressive strength of 10 N/mm^2 and a max. long and short-term temperature range 50°/80°.

[6] Only permitted for single leaves

[7] Not suitable for applications with telescopic leaves (double and single)

[8] A pilot hole should be drilled in anchoring wood thicknesses of less than 60 mm.

[9] Not suitable for applications with telescopic leaves (double and single)

From the above, the maximum loads on the dowels are as follows:

DIRECT WALL MOUNTING			
Configuration	Type of leaf	Nt	V
		kN	kN
A.1	SINGLE LEAF	0.56	0.26
A.2	DOUBLE LEAF	0.65	0.35
A.3	SINGLE TELESCOPIC LEAF	1.21	0.52
A.4	DOUBLE LEAF	1.58	0.69
MOUNTING WITH INTERFACE			
Configuration	Type of leaf	Nt	V
		kN	kN
B.1	SINGLE LEAF	0.55	0.26
B.2	DOUBLE LEAF	0.71	0.35
B.3	SINGLE TELESCOPIC LEAF	1.19	0.52
B.4	DOUBLE TELESCOPIC LEAF	1.58	0.69

It can be seen that anchoring to a masonry architrave is only permitted in the single leaf configuration and only with a specific type of dowel.

Only M8 metal dowels are suitable for telescopic leaves.

In the case of masonry platbands, it is recommended to prepare a special counterplate. This should be properly anchored to the masonry and tested.

FOR ANCHORS OTHER THAN THOSE INDICATED ABOVE, ALWAYS REFER TO THE TECHNICAL DATA SHEET OF THE ANCHOR, TAKING INTO ACCOUNT THE FOLLOWING PARAMETERS:

- **TYPE OF SUBSTRATE**
- **MAXIMUM LOAD TO BE SUPPORTED**
- **MINIMUM DISTANCES FROM THE EDGES**

2 OPERATOR'S GUIDE

When correctly installed, maintained and used, the AS3000 automation guarantees a high level of safety.

GENERAL SAFETY RECOMMENDATIONS

The operator in charge of using the automation is responsible for running the system and must:

- must be in good psycho-physical conditions, aware of and responsible about the hazards that may be engendered when using a machine.
- carefully read the instructions before using the product and store them for future use
- comply with all operating instructions and safety recommendations
- store the instructions of the products installed
- prevent the control devices from being used by persons not expressly authorised and instructed
- prevent access to the control devices to persons under age or with reduced psycho-physical abilities, unless under supervision by an adult responsible for their safety
- not carry out any work inside the automation enclosure, on the motor or on any other part of the system
- not use the system if it is malfunctioning. In the event of a malfunction, do not attempt to repair the system yourself. Contact the installer/maintenance technician for assistance
- make sure the system's maintenance is carried out according to the instructions provided in this manual.
- ensure that the ambient lighting level is at least 200 lux
- store the system Register filled in at the end of every maintenance operation by the installer/maintenance technician
- have the ROUTINE MAINTENANCE and PERIODIC REPLACEMENTS specified in the Maintenance section carried out by qualified technical personnel.

USE

It is the responsibility of the installer to provide the operator of the automation with the instructions for use, maintenance and disposal, appropriately integrating the information provided below.

The FAAC AS3000 series systems are designed to automatically operate, manage and control linear horizontal motion one- or two-leaf sliding doors.

The AS3000 series automations are designed to automate entry doors that are used exclusively for pedestrian traffic.

They are compliant with standard EN 16005.

They are suitable for indoor installation, for applications meeting the features detailed in the instruction manual.

No other use outside the ones set out above is allowed by the manufacturer.

FAAC declines all liability deriving from misuse or uses other than that for which the automation s intended.

EMERGENCY USE

In the event of a malfunction, emergency or failure, disconnect the power supply to the automation. If the door can be moved safely by hand, use the MANUAL OPERATION mode; otherwise place the automation out of service until it has been reset/repaired.

In the case of a breakdown, the automation must be reset/repaired exclusively by the installer/maintenance technician.

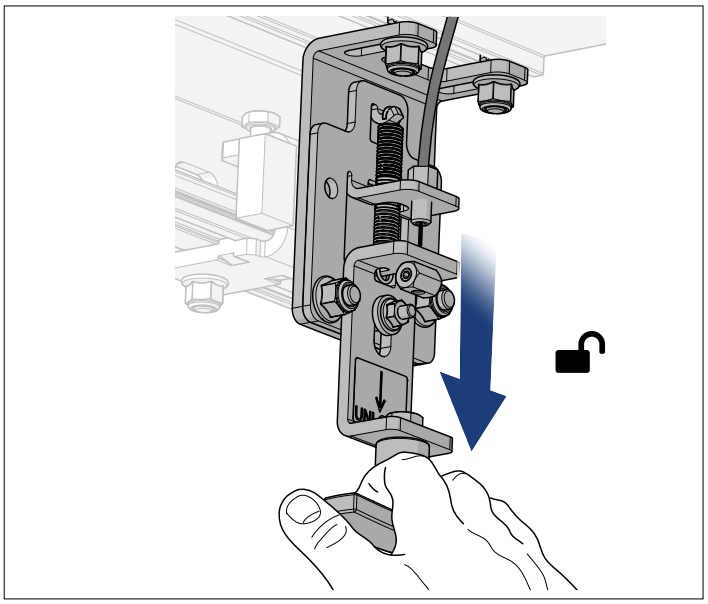
MANUAL OPERATION

If it is necessary to operate the internal release by hand in order to open the door, proceed as follows:

To open the door, pull the knob downwards.

if there is power, it activates the release, disengages the lock and commands automatic opening

in the event of a power failure, the release disengages the lock and allows the doors to be moved manually



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