A1400 AIR
A1400 AIR DM

EN16005:2012

safe zone

green tech

energy saving

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TABLES

ADDENDUM

1. INTRODUCTION TO THE MANUAL

This manual provides the correct procedures and requirements for installing A1400 AIR 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 16005:2012 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.

USER SAFETY

The person in charge of the automation is responsible for the operation of the system.

He or she is bound to read and comply with the instructions manual.

He/she must be in good psycho-physical conditions, aware of and responsible about the hazards that may be engendered when using a machine.

The required level of ambient lighting must be equal to at least 200 lux.

The person in charge of using the automation must prevent the control devices being used by anyone who has not been specifically authorised and trained to use them. He/she must not allow 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.

Do not use the system in case of malfunctioning.

Under no circumstances is the user authorised to perform any work inside the housing of the automation or on any of its components.

The user is not permitted to perform any type of work on the motorisation or on components of the system.

If the system malfunctions, the user must not attempt any kind of repair or take any direct action. He/she must request assistance from the INSTALLER / MAINTENANCE TECHNICIAN.

The user must make sure that maintenance to the system is carried out according to the instructions provided in this manual.

The installer/maintenance technician must provide the user with all the information required to operate the system and for emergency situations.

The installer/maintenance technician must supply the system's Register to the owner.

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

It indicates the risk of personal injury or damage to parts. The described operation/step must be carried out in compliance with the instructions provided and with safety regulations.

WARNING ELECTRIC SHOCK HAZARD

Indicates risk of electrocution. The described operation/step must be carried out in compliance with the instructions provided and with safety regulations.

WARNING

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

PAGE REFERENCE

It refers to the page indicated by the number for details or clarifications.

PICTURE REFERENCE

It refers to the picture indicated by the number.

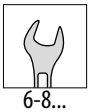
TABLE REFERENCE

It refers to the table indicated by the number.

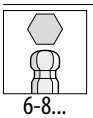
WARNING

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)**

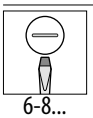


HEX SPANNER of the specified size (6, 8...)

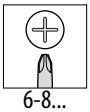


ALLEN KEY with ROUND HEAD of the specified size (6, 8...)

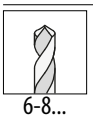

CIRCLIP PLIERS



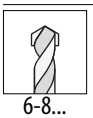
FLAT-HEAD SCREWDRIVER of the specified size (6, 8...)



CROSS-HEAD SCREWDRIVER of the specified size (6, 8...)

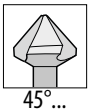


METAL DRILL BITS of the specified size (6, 8...)

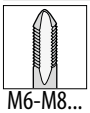


MASONRY DRILL BITS of the specified size (6, 8...)


LEVEL



COUNTERSINK with specified angle (45°...)



THREADING TAP with specified thread (M6, M8...)


ROUND SAW


GLASS SUCTION CUPS

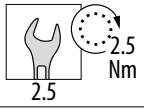

PALLET FORKS

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



■ Symbols: safety signs and symbols (EN ISO 7010)

GENERIC HAZARD

It indicates the risk of personal injury or damage to parts.

ELECTROCUTION HAZARD

It indicates the risk of electrocution due to the presence of live parts.

RISK OF CRUSHING AND MUSCULO-SKELETAL DISORDERS

It indicates the risk of crushing and musculo-skeletal disorders due to lifting heavy parts.

BURNING OR SCALDING HAZARD

It indicates the risk of burning or scalding due to the presence of parts at high temperature.

CRUSHING HAZARD

It indicates the risk of crushing hands/feet due to the presence of heavy parts.

RISK OF CRUSHING HANDS

It indicates the risk of crushing hands due to the presence of moving parts.

RISK OF CUTTING/AMPUTATION/PUNCTURE

It indicates the risk of cutting due to the presence of sharp parts or using pointed tools (drill).

SHEARING HAZARD

It indicates the risk of shearing due to moving parts.

RISK OF IMPACT/CRUSHING

It indicates the risk of impact or crushing due to moving parts.

FALLING OBJECTS HAZARD

It indicates the risk of impact due to falling objects.

SPENT BATTERY HAZARD

It indicates a risk for the environment and health arising from spent batteries due to possible leakage of the liquid content.

RISK OF FORKLIFT TRUCK IMPACT

It indicates a risk of collision/impact with forklift trucks.

■ Symbols: markings on product

Obligation to read the instructions

■ Symbols: Personal Protective Equipment

Personal protective equipment to be worn for protection from any risks (e.g. crushing, cutting, shearing, etc.):

Obligation to wear head protection helmet.

Obligation to wear safety footwear.

Obligation to wear mask/goggles to protect the eyes from the risk of fragments due to the use of drill or welder.

Obligation to wear work gloves.

Obligation to wear ear protectors.

Obligation to wear overalls. Do not wear clothes or accessories - such as ties or bracelets - that might get caught in moving parts.

■ Symbols: markings on packaging

Important warnings for the safety of people and integrity of the load:

Handle with care. Presence of fragile parts.

Store away from water and humidity.

PROHIBITION to stack items.

Maximum number of stackable items, e.g.: 2.

Wear work gloves.

Wear safety footwear.

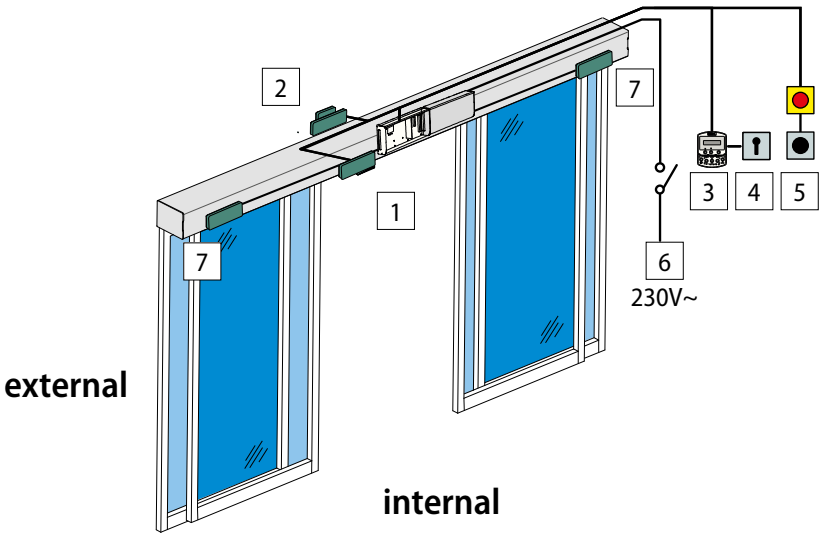
Use pallet trucks.

Use forklift trucks.

20 kg is the MAX weight that 1 person can lift.

Kg ____ WEIGHT of the load.

2. AUTOMATION A1400 AIR H100-H140



1	Internal monitored opening detector and safety in closing (XV1/XDT1)	optional accessory
2	External monitored opening detector and safety in closing (XV1/XDT1)	optional accessory
3	SDK EVO	optional accessory
4	Key switch to lock the SDK EVO	optional accessory
5	Emergency/Key/OPEN control buttons	optional accessories
6	Power supply 230V~	
7	Internal monitored detectors for safe opening (XBFA)	optional accessory

1

2.1 INTENDED USE

The FAAC A1400 AIR series systems are designed to automatically operate, manage and control linear horizontal motion one- or two-leaf sliding doors.

The A1400 AIR series automations are designed to automate entry doors that are used exclusively for pedestrian traffic.

They are compliant with standard EN 16005:2012.

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.

APPLICATION LIMITS

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 set out. Specifically, it is forbidden to connect to sources of energy other than those set out.

2.2 UNAUTHORISED USE

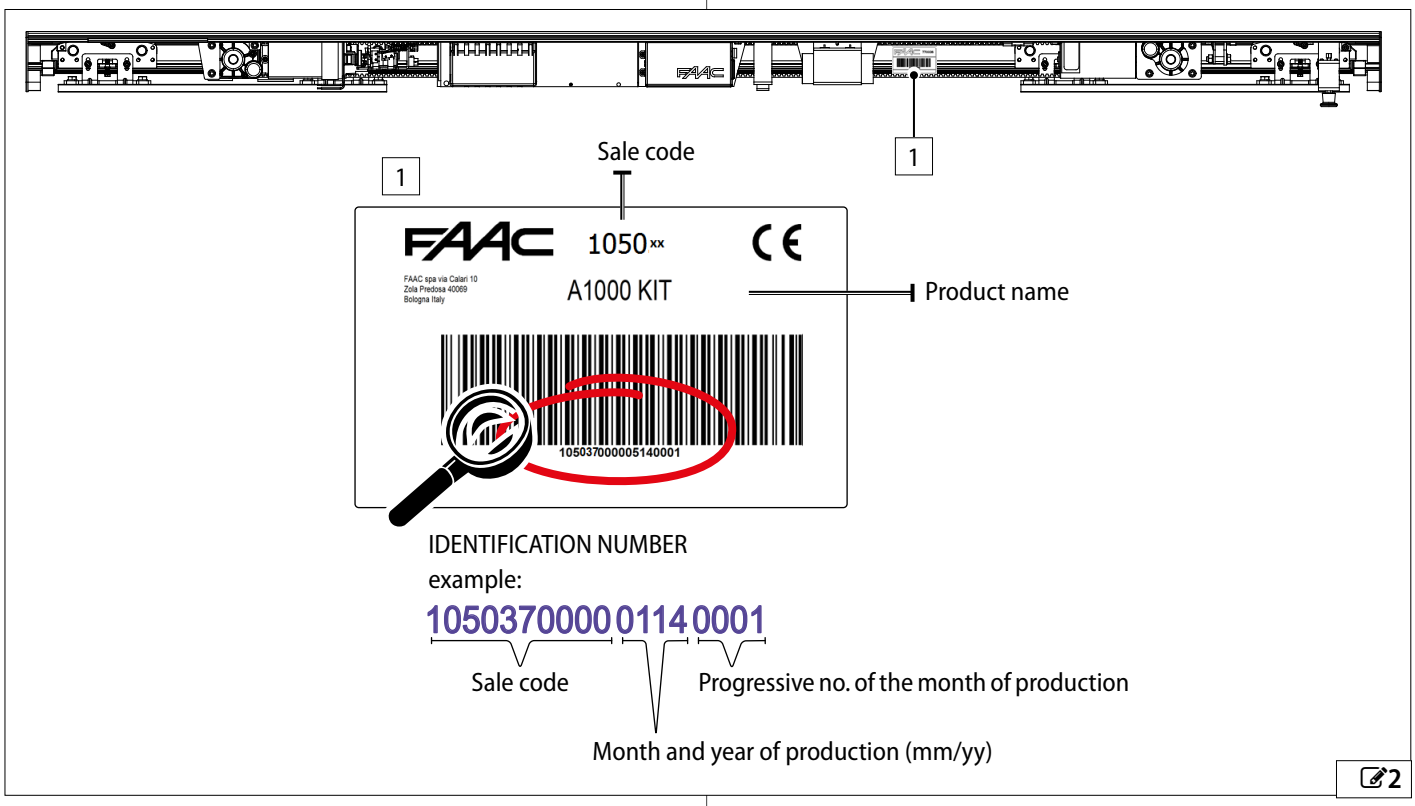
It is forbidden to:

- use the automation for uses other than THE INTENDED USE;
- use the automation for installing smoke and/or fire protection doors (fire doors);
- 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;
- use commercial devices for purposes other than those set out by the respective manufacturers.

2.3 IDENTIFICATION PLATE A1400 AIR

The identification plate ✎2-1 is located on the support profile.

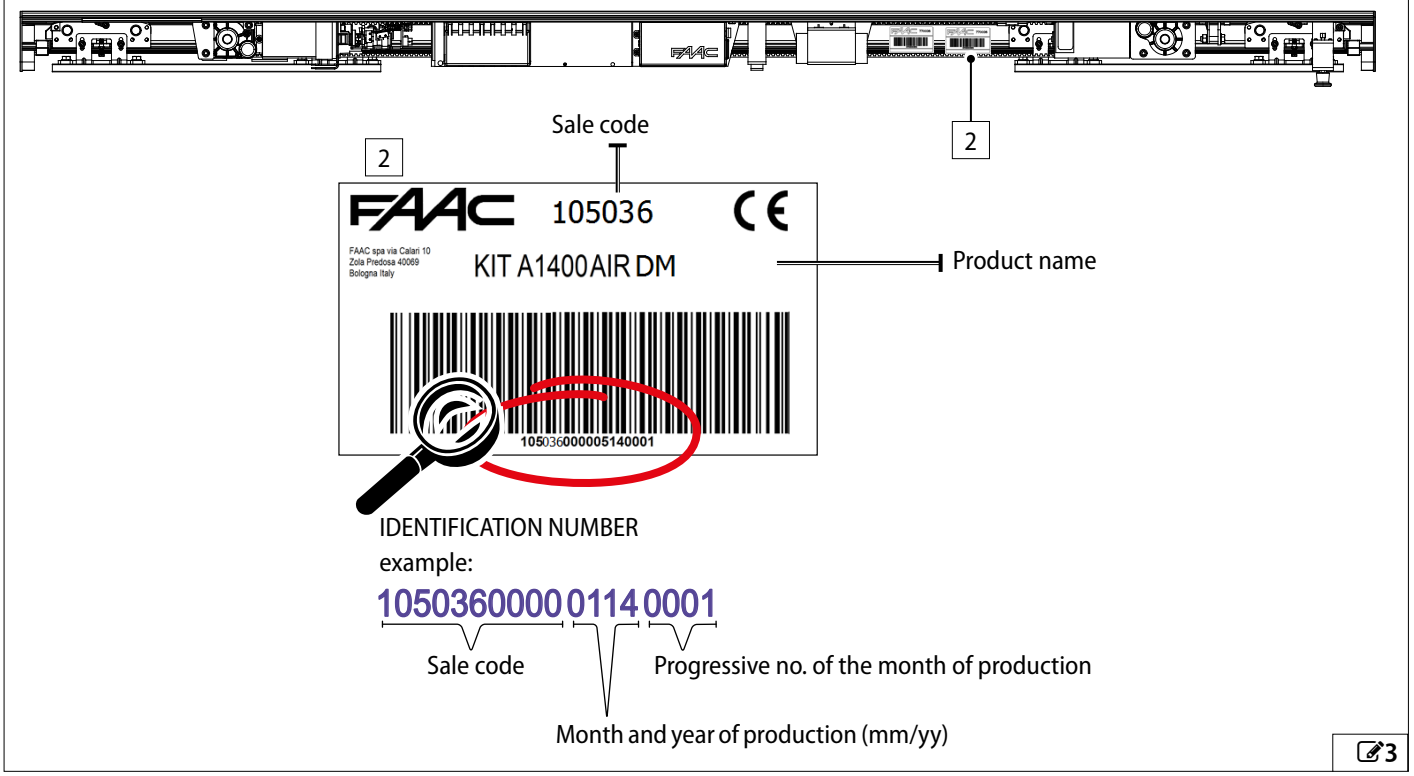
If the A1400 AIR KIT is supplied, it is the responsibility of the installer to attach the identification plate in a visible position ✎2- 1.



2.4 IDENTIFICATION PLATE KIT A1400 AIR DM

In the version with the A1400 AIR KIT , a second label is added in order to identify the 2nd motor.

If the A1400 AIR DM is supplied, it is the responsibility of the installer to attach the identification plate in a visible position ✎3- 2.



2.5 TECHNICAL SPECIFICATIONS

1 Technical data A1400 AIR

* The dimensions and weight of the automation are specified excluding the overall dimensions of the carriage and leaf, which are customisable

** For the specifications of weights in relation to the length of the automation, see **1**/**2**.

	A1400 AIR single leaf	**A1400 AIR double leaf**
Length * [mm]	from 1500 to 6100	from 1700 to 6100
Depth * [mm]	128.7	128.7
Total depth with self-supporting beam * [mm]	183.7	183.7
Height * [mm]	100-140	100-140
Weight** [kg]	MIN. 21 - MAX 47	MIN. 24- MAX. 49
No. of leaves	1	2
MAX. leaf weight [kg]	200	120 +120
Passage opening (Vp) [mm]	from 700 to 3000	from 800 to 3000
Beam length [mm]	Vp x 2 +100	Vp x 2 +100
Maximum framed leaf thickness [mm]	65	65
MAX absorbed power [W]	140	140
Use frequency	100%	100%
Main motor (with encoder)	powered at 36V	powered at 36V
Operating ambient temperature [°C]	-20... +55	-20... +55
Automation protection rating	IP 23 (internal use)	IP 23 (internal use)

2 Technical data A1400 AIR DM

	A1400 AIR DM single leaf	**A1400 AIR DM double leaf**
Length * [mm]	from 1700 to 6100	from 1900 to 6100
Depth * [mm]	128.7	128.7
Total depth with self-supporting beam * [mm]	183.7	183.7
Height * [mm]	100-140	100-140
Weight** [kg]	MIN. 24 - MAX 49	MIN. 27 - MAX. 51
No. of leaves	1	2
MAX. leaf weight [kg]	250	180 +180
Passage opening (Vp) [mm]	from 800 to 3000	from 900 to 3000
Beam length [mm]	Vp x 2 +100	Vp x 2 +100
Maximum framed leaf thickness [mm]	65	65
MAX absorbed power [W]	140	140
Use frequency	100%	100%
Main motor (with encoder)	powered at 36V	powered at 36V
DM motor (without encoder)	powered at 36V	powered at 36V
Operating ambient temperature [°C]	-20... +55	-20... +55
Automation protection rating	IP 23 (internal use)	IP 23 (internal use)

3 Technical data E2SL

Power supply voltage	230 V~ (+6% -10%) 50 Hz
Standby power without accessories [W]	3
Max. accessories load (excluding SDK EVO)	1A, 24V
Time/date backup battery	Lithium CR2032 3V
Motion backup battery	NiMh 24V 1800mAh

2.6 TYPES OF SYSTEM SUPPLIED

The FAAC A1400 AIR series automations may be supplied as follows:

- Automation kit: A1400 AIR KIT
- Assembled automation: A1400 AIR PA
- Complete entry door: A1400 AIR CS

INSTALLATION ACCORDING TO THE TYPE OF SYSTEM SUPPLIED

During installation, it is recommended to comply with the order of the sections set out based on the type of purchased supply.

A1400 AIR KIT

A. Pack containing automation components to be assembled on the FAAC support profile.
B. Pack with FAAC profiles purchased in 4.30 m or 6.10 m long bars.

Sequence of installation phases (dedicated sections in the instructions manual)

- Inspection and preparation (§ 3)
- Cutting the profiles (§ 5)
- Creating the head section: assembly of the components on the support profile (use exclusively FAAC profiles) (§ 6)
- Installation of the head section (§ 8)
- Installation of the leaves (§ 9) - for glass leaves see (§ 10)
- Installing the electronics (§ 12)
- Commissioning (§ 13)

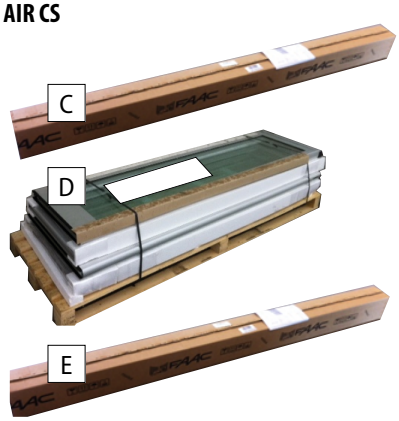
A1400 AIR PA

C. Automation assembled on FAAC* head section.

Sequence of installation phases (dedicated sections in the instructions manual)

- Inspection and preparation (§ 3)
- Installation of the head section (§ 8)
- Installation of the leaves (§ 9) - for glass leaves see (§ 10)
- Installing the electronics (§ 12)
- Commissioning (§ 13)

A1400 AIR CS



C. Automation assembled on FAAC* head section.
D. FAAC leaves (with TK20 or TK50 profiles)
E. Package with TK20 or TK50 profiles for installing the FAAC door wall frame.

Sequence of installation phases (dedicated sections in the instructions manual)

- Inspection and preparation (§ 3)
- Installation of the door wall frame (§ 8) with FAAC - TK50 or TK20 profiles
- Installation of the head section (§ 8)
- Installation of the leaves (§ 9) - for glass leaves see (§ 10)
- Installing the electronics (E2SL instructions)
- Commissioning (E2SL instructions)

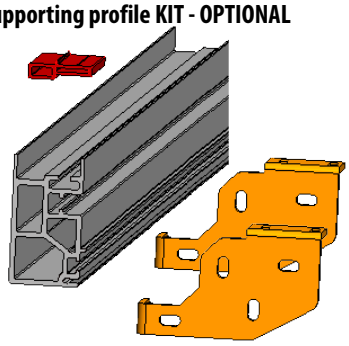
* supplied to the required measurement and with automation components pre-assembled.

AUTOMATION COMPONENTS A1400 AIR

Support profile

It lets you adequately fasten the automation along a load-bearing metal or masonry wall.

Self-supporting profile KIT - OPTIONAL

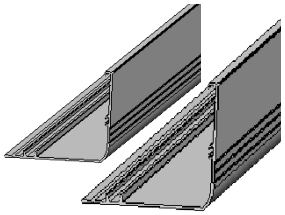


To fasten the head section to the side walls. In cases where there is no load bearing wall to fasten the support profile, or if the wall is not smooth.

The kit includes:

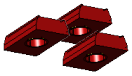
- Self-supporting profile to be assembled to the support profile to obtain a self-supporting head section.
- 2 Sides to fasten the head section to the side walls.
- Transom profiles to lock any transom panel installed above the self-supporting profile.

Front cover/casing profile (H100 or H140)



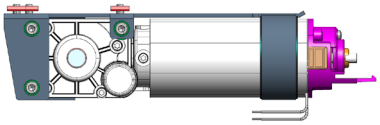
Aluminium profile for front head section closure.
H100 (height 100 mm) or H140 (height 140 mm) versions available.

Plates with screws

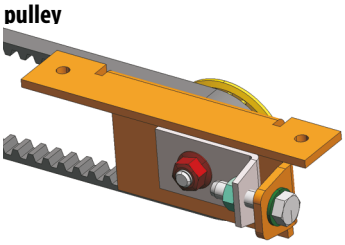


Accessories for installation of components.

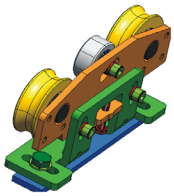
Motor with encoder



Return pulley



Leaf Support/Sliding Carriages - (2 for each leaf)

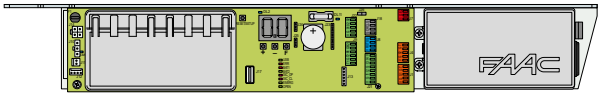


In the configuration with the second motor kit (A1400 AIR DM), the wheels of the carriages must be replaced with wheels specific for heavy doors.

Transmission belt

It is mandatory to use a FAAC belt for the

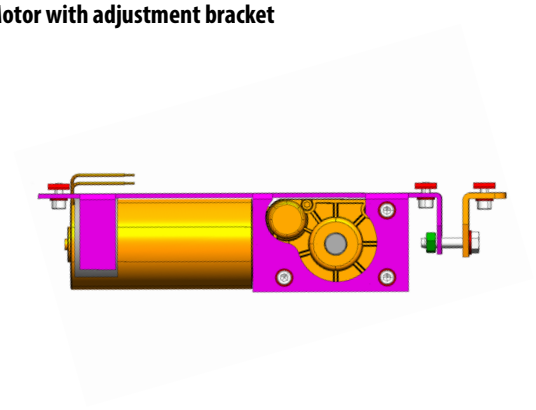
Control electronics module



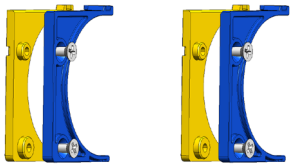
E2SL electronic board and power supply unit.

A1400 AIR DM KIT COMPONENTS

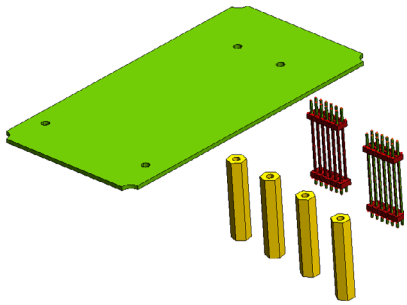
2nd Motor with adjustment bracket



Belt-tensioning half-moon unit

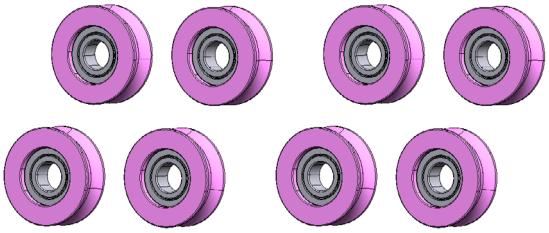


2nd Motor board, connection and fixing accessories



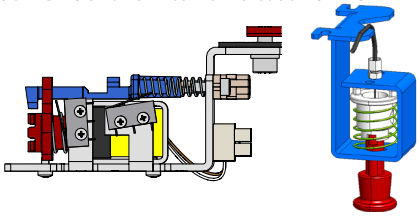
2nd Motor extension cable

Carriage sliding wheels A1400 AIR DM (8 pieces)



ACCESSORIES

Motor block XB LOCK and Internal release - OPTIONAL



It acts directly on the Motor, mechanically locking it in order to maintain the leaves in position.

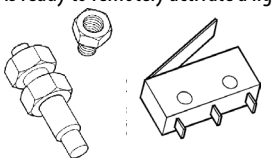
Supplied with internal release device which allows emergency opening to be performed in case of need.

Ready for installing external release.

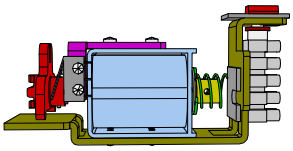
Monitoring - OPTIONAL

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 motor block detects any malfunction. It is ready to remotely activate a light or sound warning.

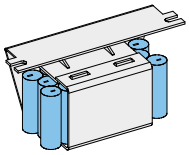


Motor block XM LOCK - OPTIONAL



It acts directly on the Motor, mechanically locking it in order to maintain the leaves in position.

Emergency battery - OPTIONAL



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

SDK EVO - OPTIONAL

Programming and function selector device with display.

LK EVO - OPTIONAL

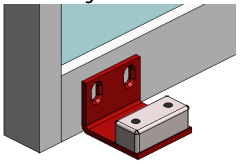
Programming and function selector device without display.

KS EVO - OPTIONAL

Device with function selector key without display.

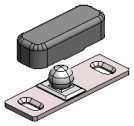
TK50 - Sliding shoes with bracket - OPTIONAL

For fastening to wall or fixed leaf (supplied in a PAIR).



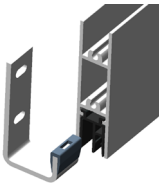
TK50 - Swivel sliding shoes - OPTIONAL

For fastening to the floor (supplied in a PAIR).



TK20 - Sliding shoes with bracket - OPTIONAL

For fastening to fixed leaf (supplied in a PAIR).

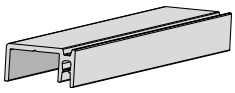


Spacer for leaf carriage H140 - (2 for each leaf) - OPTIONAL

To use with casing H140 to obtain the correct installation position of the leaf.

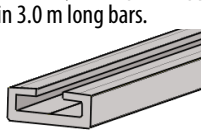
Lower guide profile - OPTIONAL

Allows the lower leaf profile to be adapted to the sliding shoe. Supplied in 3.0 m long bars.



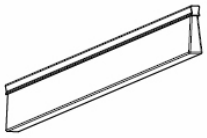
Upper profile for connecting the leaf - (1 for each leaf) - OPTIONAL

Accessory to adapt the upper leaf profile to the carriage connections. Supplied in 3.0 m long bars.



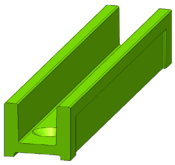
Brush for lower guide profile (H19 or H25) - OPTIONAL

Completes the floor guide system.

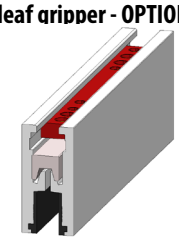


Glass leaf lower shoes - OPTIONAL

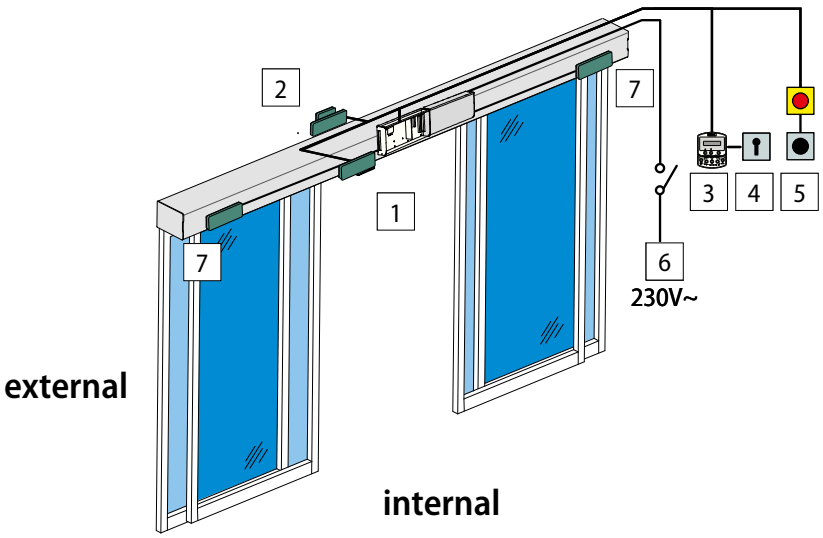
For glass leaf sliding.



Glass leaf gripper - OPTIONAL



3. INSPECTION AND PREPARATION



1	Internal monitored opening detector and safety in closing (XV1/XDT1)	included in the supply
2	External monitored opening detector and safety in closing (XV1/XDT1)	optional accessory
3	SDK EVO	optional accessory
4	Key switch to lock the SDK EVO	optional accessory
5	Emergency/Key/OPEN control buttons	optional accessories
6	Power supply 230V~	
7	Internal monitored detectors for safe opening (XBFA)	optional accessory

4

3.1 PRELIMINARY INSPECTION

Prior to installation, check soundness of the load bearing masonry structure and door. Perform any required work to assure:

- solidity, stability and absence of any risk of detachment or collapse of the masonry structure, fixed door frame and automation
- level flooring, without any friction/hindrance to smooth leaf sliding
- absence of sharp edges (cutting hazard)
- absence of protruding parts (hooking/entrainment hazard)

INSTALLATION DIAGRAMS AND MEASUREMENTS (ONLINE)

Comply with the instructions provided in the installation and component positioning diagrams, available online.

3.2 ARRANGEMENT OF ELECTRICAL CABLES

Always shut off the power supply before performing any work. If the disconnect switch is not in view, apply a warning sign stating "WARNING - Maintenance in Progress".

The electrical system must comply with applicable legislation in the country of installation.

Use components and materials with CE marking which are compliant with the Low Voltage Directive 2014/35/EU and EMC Directive 2014/30/EU.

The power supply line for the automation must be fitted with a multi-pole circuit breaker, with a suitable tripping threshold, a contact opening distance of at least 3 mm and a breaking capacity that complies with current regulations.

The power supply for the automation must be fitted with a 30 mA differential switch.

The metal parts of the structure must be earthed.

Check that the protective earthing system complies with applicable regulations in the country of installation.

The electrical cables of the automation system must be of a size and insulation class that is compliant with current legislation and laid in appropriate rigid or flexible conduits, either above or below ground.

Use separate conduits for the power supply and the 12-24 V control devices / accessories cables.

Check buried cable plans to ensure that there are no other electrical cables in proximity to the planned digging/drilling locations to prevent the risk of electrocution.

Check that there are no pipes in the vicinity as well.

The conduit fittings and the cable glands must prevent the entry of moisture, insects and small animals.

Protect extension connections using junction boxes with an IP 67 protection rating or higher.

The control accessories must be positioned in areas that are always accessible and not dangerous for the user. It is recommended to position the control accessories within the field of view of the automation.

If an emergency stop button has been installed, it must be EN13850 compliant.

Comply with the following heights from the ground:

- control accessories = minimum 150 cm
- emergency buttons = maximum 120 cm

If the manual controls are intended to be used by disabled or infirm persons, highlight them with suitable pictograms and make sure that these users are able to access them.

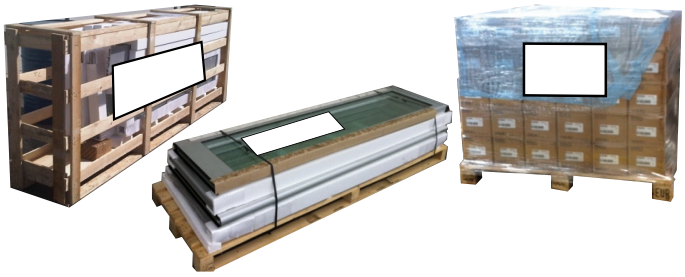
4. TRANSPORT AND RECEIPT OF THE GOODS

HANDLE PACKAGES

Always comply with instructions on the package.

The NET WEIGHT is indicated on the package.

PALLETISED SUPPLY



RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED

SINGLE PACKAGE

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED

For manual lifting, there should be 1 person for every 20 kg to be lifted.

UNPACK AND HANDLE

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED

For manual lifting, arrange for an adequate number of people for the weight of the leaf: 1 person for every 20 kg to be lifted.

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.

Discard the packaging after use in the appropriate containers in compliance with waste disposal regulations.

The packaging materials (plastic, polystyrene etc.) must not be left within reach of children as they are potential sources of danger.

5. CUTTING THE PROFILES

If the A1400 AIR 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.

Handling instructions: **13**.

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED

Use a circular or linear saw cutting machine with blade suitable for cutting metals.

It is forbidden to use a hand saw.

Only use equipment in good conditions and fitted with all the required safety devices.

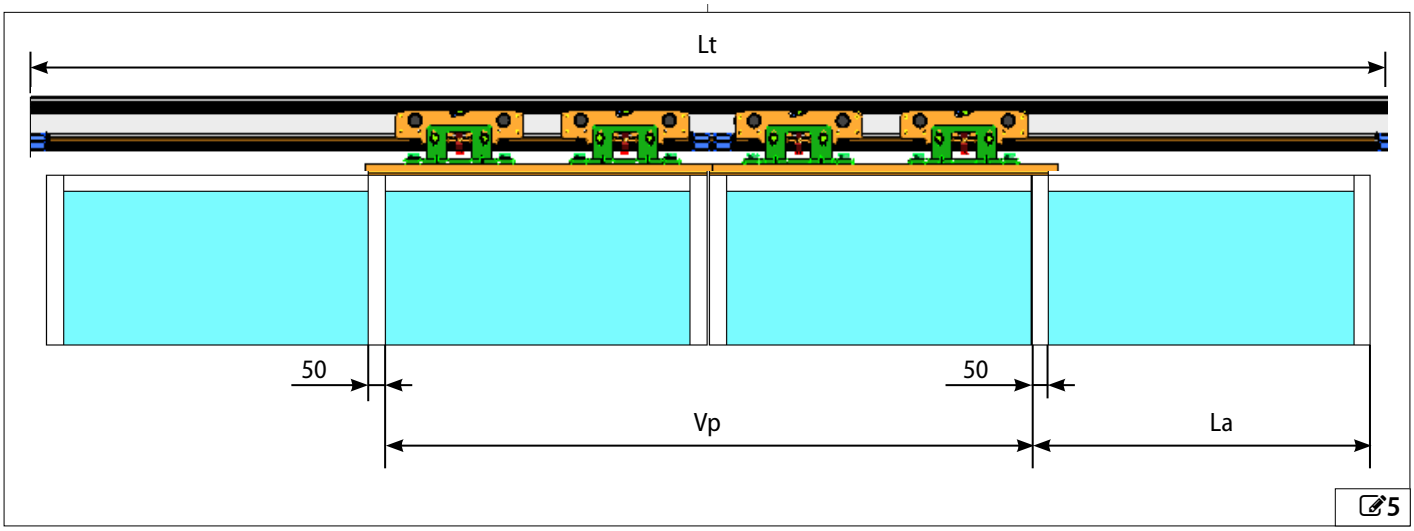
Always comply with the instructions provided by the equipment's manufacturer.

Cutting operations may only be performed by personnel authorised to use the equipment.

Cut to the specified sizes in Profile cutting measurements.

4 Profile cutting measurements

Profile to be cut	Cutting measurement [mm]
- Support profile	**Lt = Vp x 2 + 100**
- Head section cover	The head section length (Lt) must be calculated based on the measurement of the passage opening (Vp).
- Self-supporting profile (OPTIONAL)	The overlap between leaves (50 + 50) is 100 mm. If the overlap is different, the Lt measurement varies accordingly.
	The passage opening measurement (Vp) taken on the installation must already be known when placing the order since the profiles can be supplied in 4300 mm or 6100 mm long bars.
	If installed with side profiles, the support profile must be cut to:
	Lt - 2mm
- Leaf connection profile (OPTIONAL)	**La**
- Lower guide profile (OPTIONAL)	The leaf width measurement (La) depends on the passage opening measurement (Vp), on the number of leaves and the planned overlap.



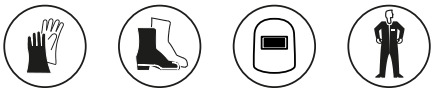
6. ASSEMBLING THE HEAD SECTION

If the A1400 AIR KIT has been supplied, the components must be installed on the support profile. This operation is performed in the shop. The assembled head section is then moved to the installation site.

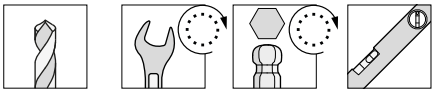
For handling instructions see **13**.

RISKS

PERSONAL PROTECTIVE EQUIPMENT



TOOLS REQUIRED



A torque wrench must be used to achieve the specified fastening torques (Nm).

For manual lifting, arrange for an adequate number of people for the weight of the leaf: 1 person for every 20 kg to be lifted.

6.1 PREPARING THE SELF-SUPPORTING HEAD SECTION (if used)

ONLY in cases where the head section is to be fastened to the side walls, the self-supporting head section must be prepared:

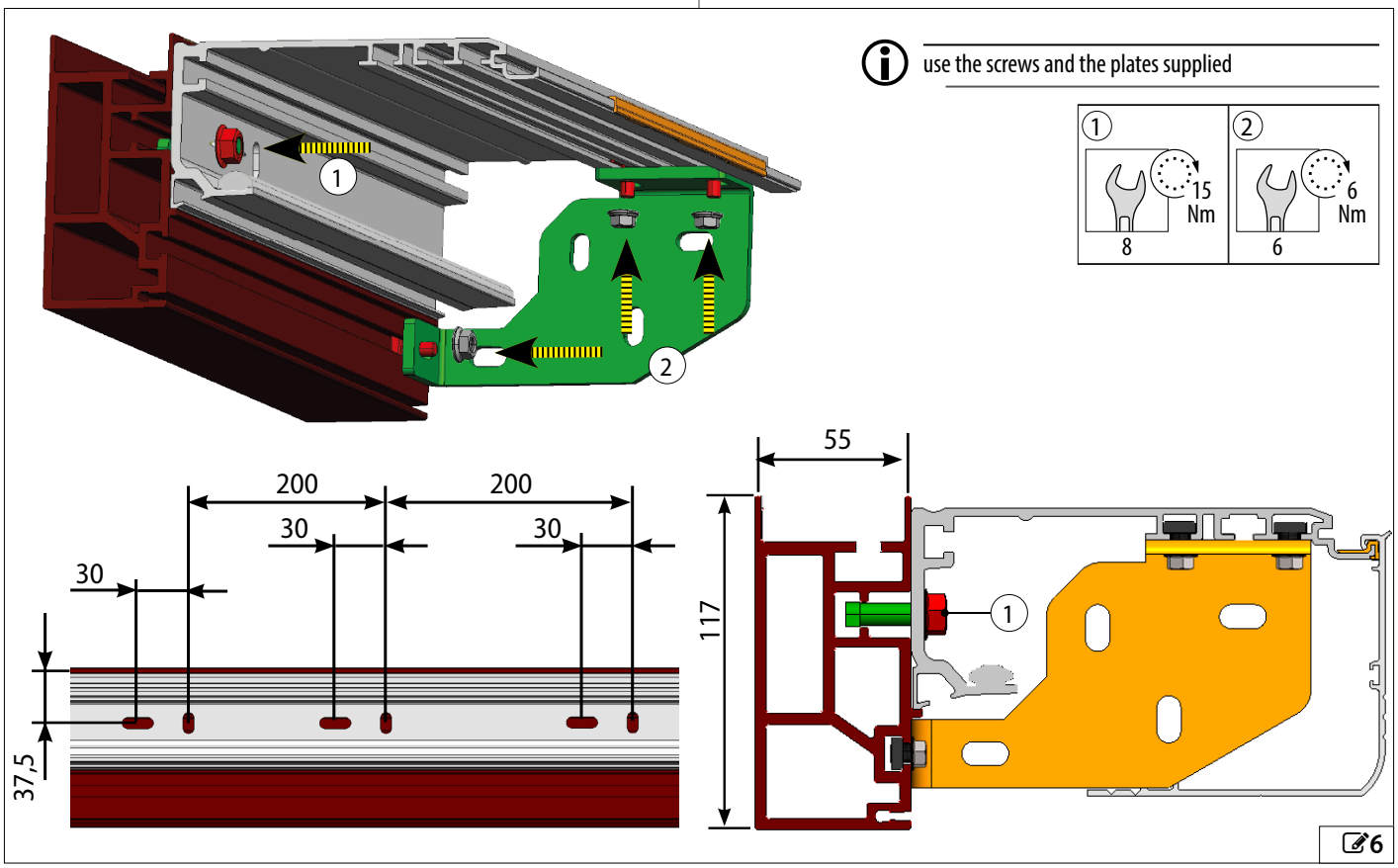
the support profile, self-supporting profile and the side brackets are assembled before assembling the automation components.

1. Fasten the support profile to the self-supporting profile **6-1**:
   - start fastening at a vertical slot at one end and a horizontal slot at the other end.

Check the horizontal with a spirit level.

   - proceed with the other fastenings at a 200 mm distance; alternate vertical and horizontal slots.
2. Fasten the side brackets at the ends:
   - position the plates in their housings and fasten the 2 side brackets to the ends of the support profile and self-supporting profile **6-2**.

use the screws and the plates supplied



6.2 ASSEMBLING THE COMPONENTS

Keep to the positions indicated in the diagrams provided online.

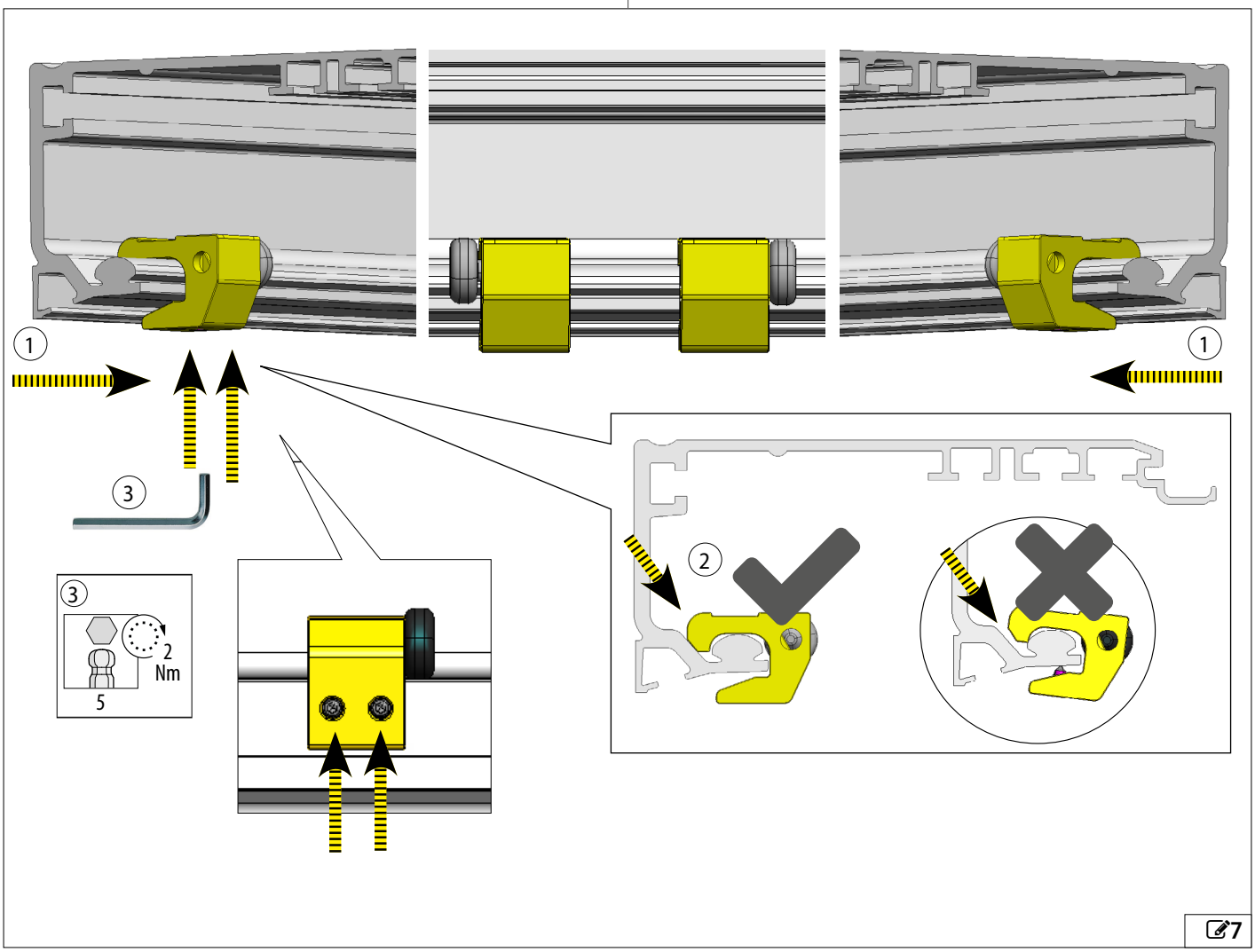
MECHANICAL STOPS

SINGLE LEAF: 2 mechanical stops are required. Place them at the two ends of the profile to begin with.

DOUBLE LEAF: 4 mechanical stops are required. Place 2 of them at the two ends of the profile and 2 in the middle to begin with.

1. Insert the mechanical stops from the side or front ✎**7**-**1**.
2. Make sure that they are resting in the correct position on the profile - ✎**7**-**2** and temporarily fasten each mechanical stop ✎**7**-**3**.

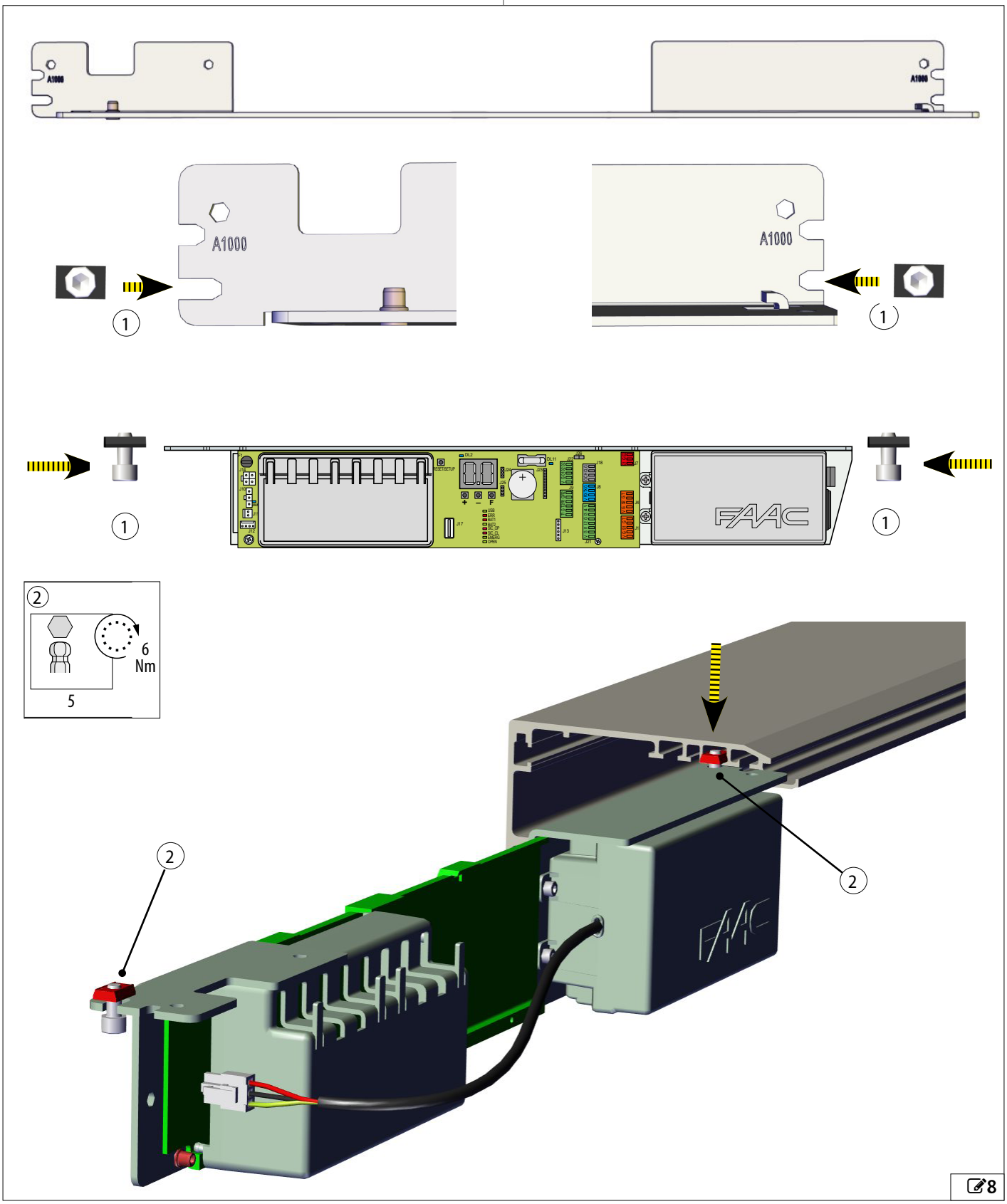
After assembling the leaves, the stops' positions must be adjusted.



✎**7**

ELECTRONICS MODULE

1. Insert the screws and plate into the 2 slots as indicated in ✎8-1.
2. Insert the electronics module into the profile from the side using the 2 plates ✎8-2.



✎8

SAFETY CABLES AND SPACERS

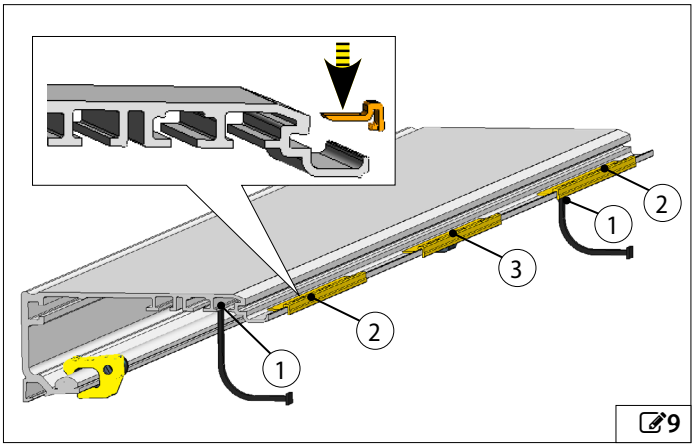
1. Insert the largest end of each cable into the support profile **9-1**.
2. Insert 2 vibration damper spacers **9-2** onto the edge of the profile. In the case of profiles longer than 3 m, add a spacer in the middle **9-3**.

MOTOR

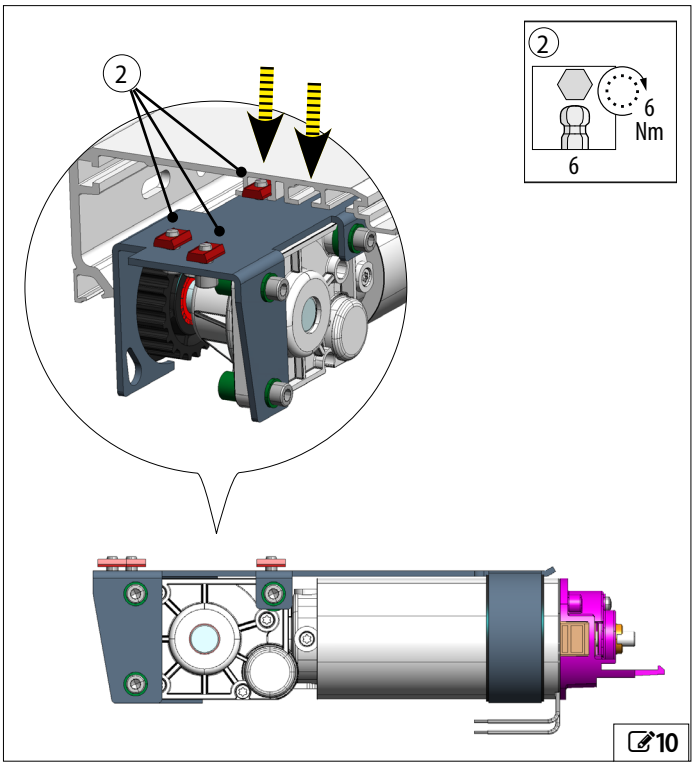
1. Insert the motor in the side of the support profile.
2. Fasten using the 3 plates with screws **10-2**.

RETURN PULLEY

1. Insert the return pulley from the side **11-1**.
2. Fasten using the 2 plates with screws **11-2**.



9



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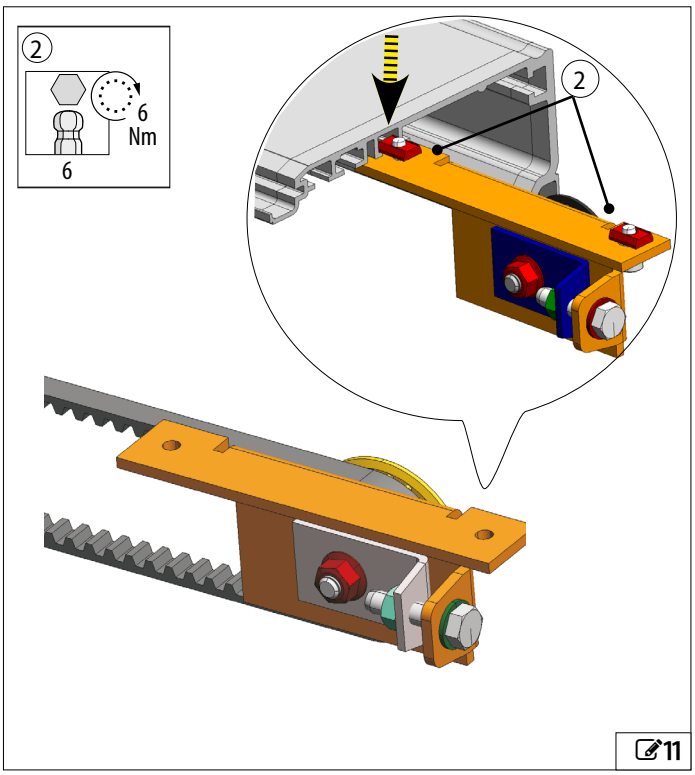


11

6.3 INSTALLING THE 2ND MOTOR KIT A1400 AIR DM

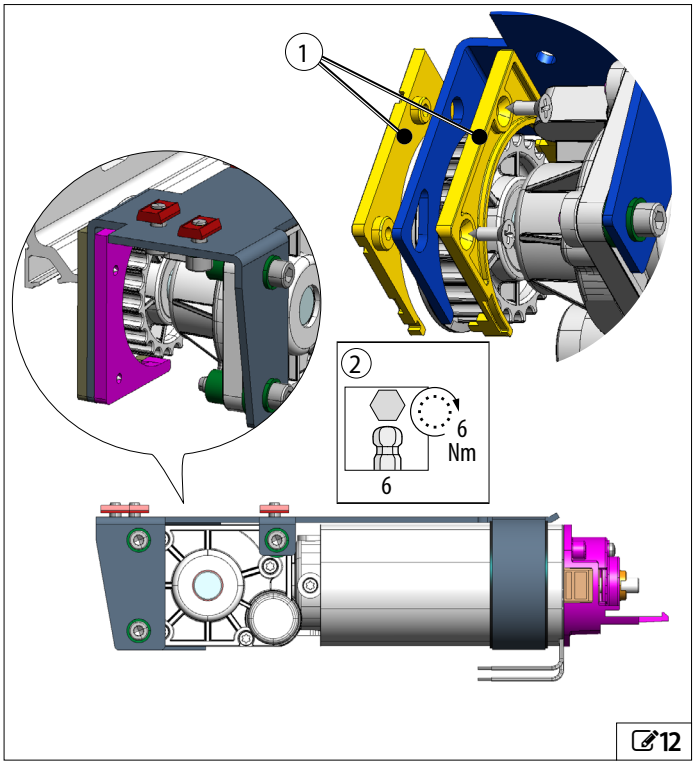
MOTOR

1. Mount the half moon profiles on the motor **12-1**.

2ND MOTOR

1. Mount the half moon profiles on the 2nd motor **13-1**.
2. Insert the motor from the side.
3. Fasten using the 5 plates with screws **13-2**.

There may be a decrease in the passage opening VP when passing from the A1400 AIR to the configuration with the A1400 AIR DM kit. Refer to the tables provided online.



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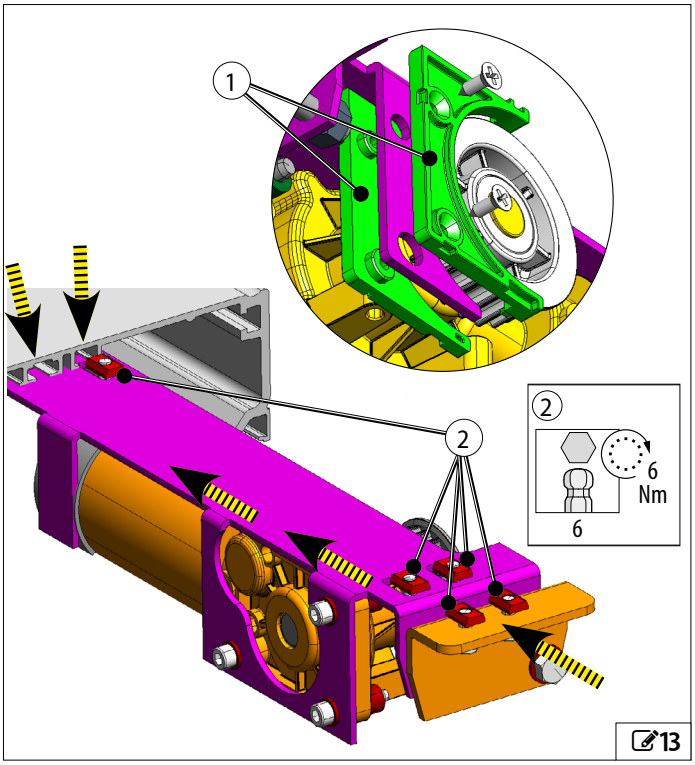


13

MOTOR RELEASE MONITOR

(OPTIONAL ACCESSORY)

Install the micro switch on the motor block ✎**14**.

INTERNAL RELEASE

Double leaf applications.

For passage openings (Vp) of between 800 and 1000 mm, it is recommended that you install the release at the end opposite Motor_1.

For passage openings (Vp) of between 1000 and 3000 mm, it is recommended that you install the release close to Motor_1.

Release knobs are available for H100 or H140 covers. The method of assembly and adjustment is the same for both versions.

The knob must be unscrewed and removed to open the automation casing after mounting the internal release.

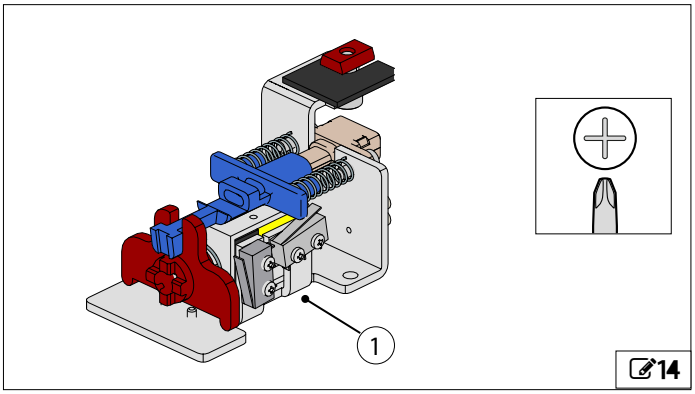
1. Tighten the adjustment nut, with the relative locknut ✎**15-1**.
2. Extract about 20 cm steel cable from the sheath. Insert the cable into the adjustment nut and feed it into the release device ✎**15-2**.
3. Tighten the screw ✎**15-3** to lock the steel cable.
4. Move the black cable sheath against the adjustment screw and screw the adjustment screw fully into the bracket.
5. Insert two plates into the profile ✎**16-1** and install the release knob on the side bracket.
6. Lock the knob: pull and turn it by 90° ✎**15**. The knob must maintain this position.
7. Run the cable with sheath into the suitable cable ducts up to the motor block. Avoid bending the sheath too tightly.
8. Bring the cable with sheath close to part ✎**17-2** and remove any excess sheath.
9. Feed the cable into the guide ✎**17-2** so that the sheath is in contact with it. Insert the cable into the clamp **3**.
10. Pull the block **8** as far as it will go, compressing the springs. Tighten the clamp screw **3** to lock the steel cable.
11. Cut the excess steel cable.

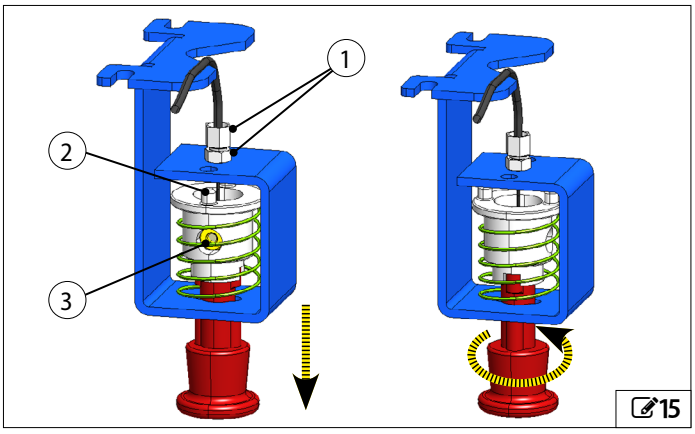
MOTOR BLOCK OPERATION TEST XB LOCK

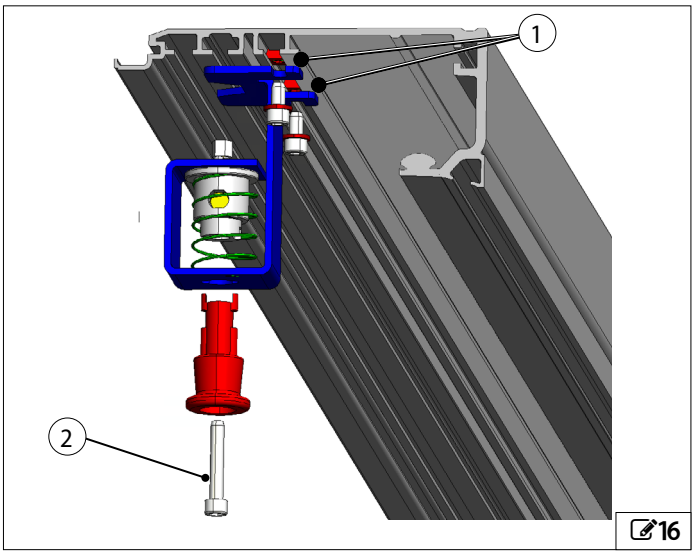
The motor must be free to move: motor block not engaged in the motor shaft coupling.

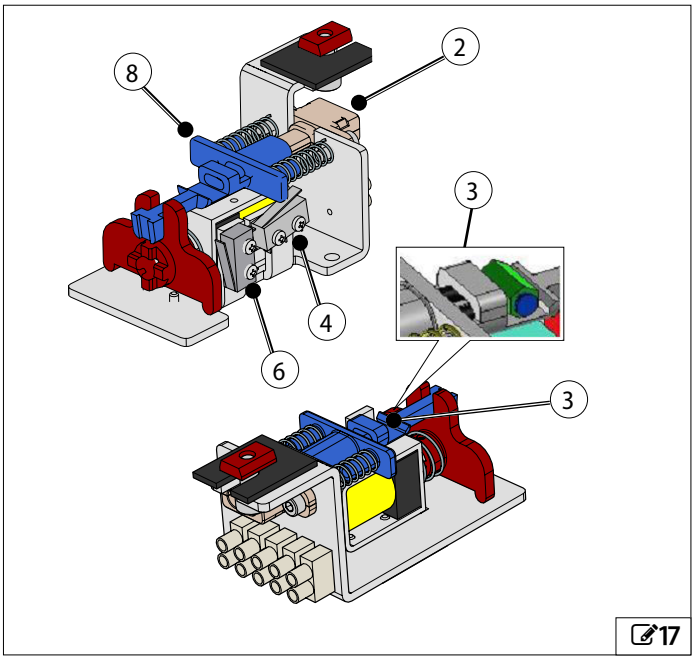
- Use the adjustment nut ✎**15-1** to regulate the tension of the cable.
- Unlock the knob by turning it 90° and ensure the release is working.
- Pull the knob to make sure that the door opening micro switch is activated ✎**17-4**).

If installation of the external release is required, use suitable key buttons. Insert the release cable in the suitable housing in the motor block.









COVER DRILLING

Make a 18 mm diameter hole on the lengthways marking of the cover ✎18-1.

The hole must be centred with respect to the release knob.

CLOSED DOOR MONITOR SENSOR

(OPTIONAL ACCESSORY)

Assemble the magnet on the carriage closest to the closing stop.

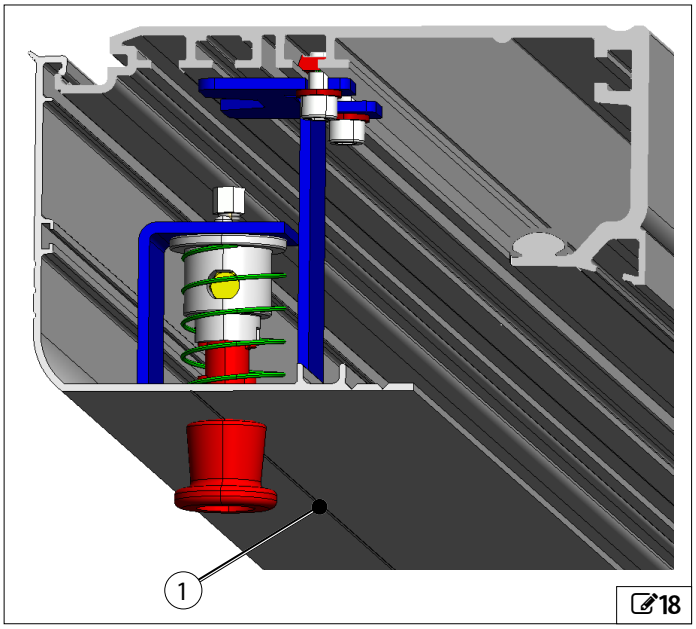
1. Screw the magnet ✎19-1 onto the carriage (use the threaded hole normally used to attach the belt).
2. Install the sensor onto the bracket using the plastic nuts ✎19-2.
3. Insert a threaded plate with screw into seat on the support profile and fasten the bracket ✎19-3.

After installing the door the position must be checked to ensure sensor and magnet are aligned when the door is closed.

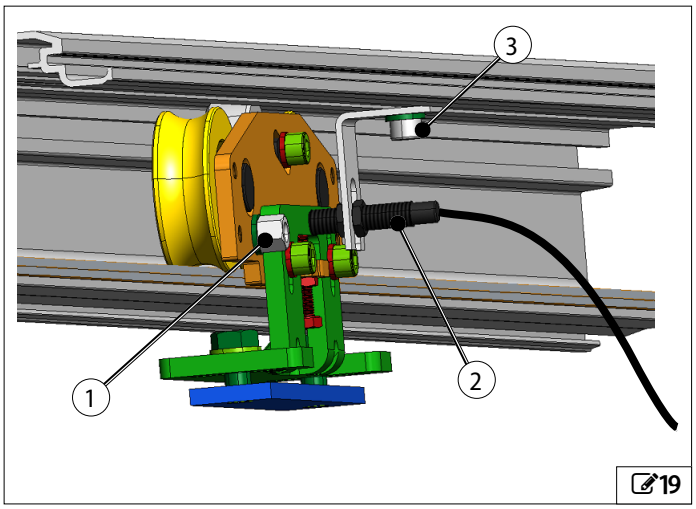
EMERGENCY BATTERY KIT

1. Insert two plates into the support profile as shown in ✎20.
2. Fasten the battery support onto the support profile using the 2 screws and washers (provided).

Check the date on the label on the emergency battery through the window on the battery support plate ✎20-3.



✎18



✎19

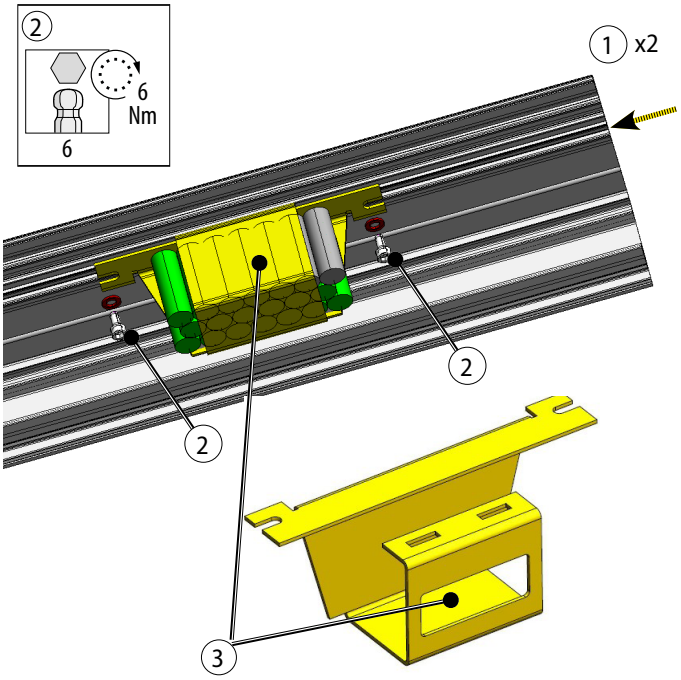
IDENTIFICATION NUMBER

example:

75501500 2015

Sale code

year of manufacture (yyyy)



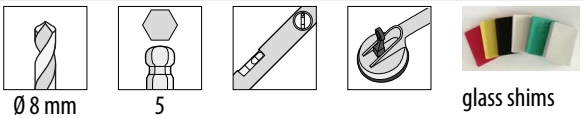
✎20

7. ASSEMBLING THE A1400 AIR CS FRAME

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED



A torque wrench must be used to achieve the specified fastening torques (Nm).

When ordering the door frame, remember to take into account that the opening safety clearances must be as indicated in standard EN 16005:2012 since no opening protection detectors can be installed on the A1400 AIR door.

For manual lifting, arrange for an adequate number of people for the weight of the leaf: 1 person for every 20 kg to be lifted.

7.1 ENTRY DOOR WITH TK50 PROFILES

PRELIMINARY OPERATIONS

1. Check soundness of the installation opening (Masonry, Structural Metal Work etc.).
2. Take the measurements of the opening.

The door frame must be fastened to the structure with suitable fasteners (dowels, self-tapping screws etc.).

3. Measure the door frame and compare them with the opening measurements.
4. Check floor levelness with a spirit level.

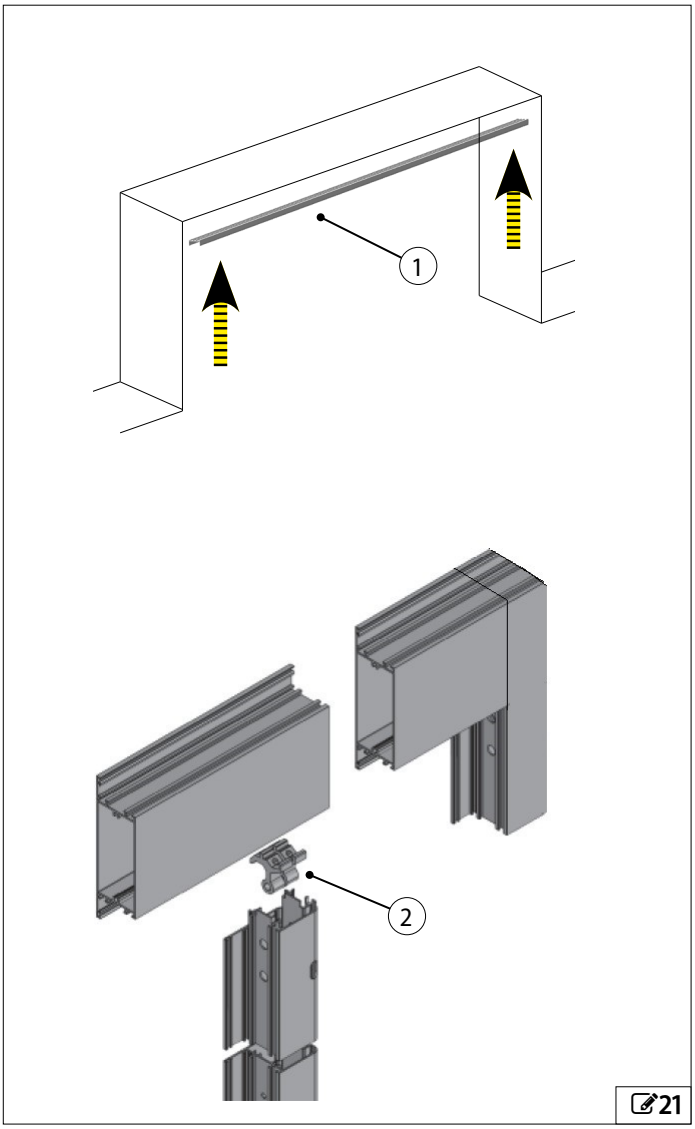
Ensure there are no hydraulic coils or electrical conduits under the floor at the planned drill points.

ASSEMBLING THE FRAME

The supply includes:

- upper head section with reinforcement counter-plate for A1400 AIR
- 2 mobile leaves assembled with or without glazing
- 2 fixed side leaves without glazing to be assembled with upper head section
- seal for fixed glass leaves
- frame assembly screws kit

1. Mount the upper balancing profile on the opening (STD solution) ✎**21**- **1**.
2. Fasten with appropriate screws with minimum 500 mm pitch.
3. Assemble the entry door parts, consisting of 2 leaves open at the top and connect it to the head section connection profile, by means of the connecting bracket shown ✎**21**- **2**. Join the head section to the profile using the supplied screw kit.
4. Lift the assembled entry door.
5. Place the entry door in the opening and insert it into the top balancing profile.
6. Check levelness with a spirit level.
7. Fasten the side balancing profiles using suitable screws next to the grub screws ✎**22**-**1**.
8. Check verticality with a spirit level.
9. Adjust the distance between the leaf profile and balancing profile



✎21

using the grub screws on the profile ✎**22**-**1**. This adjustment corrects any flaws on the wall surface.

10. Check proper vertical and horizontal alignment.
11. Fasten the fixed leaf sides as shown in ✎**22**-**2**.

> If the balancing profile needs to be cut, pay attention to the alignment of the holes, which have a variable spacing. It is recommended that you make the reference marks for the cut starting from the top.

FASTENING THE FIXED LEAVES

Fixed leaves may be:

- with low skirting
- with high skirting

Fasten the fixed leaf to the floor by drilling the leaf ✎**23**-**3** and fasten it using suitable screws and dowels.

- Use adequate wall bits and dowels with screws.

> Ensure there are no hydraulic coils or electrical conduits under the floor at the planned drill points.

MOUNTING MOBILE LEAVES

Mount the leaves as described in § **9**.

GLAZING INSTALLATION

1. Place the 3 shims in the lower part of the profile ✎**24**-**2**.
2. Place the glass on the shims ✎**24**- **3**, **4**.

> Handle the glazing adhering to the safety warnings in the Safety chapter.

3. Secure the glass using the beading supplied ✎**24**-**5**.
4. Insert the seal along the entire length of the perimeter.

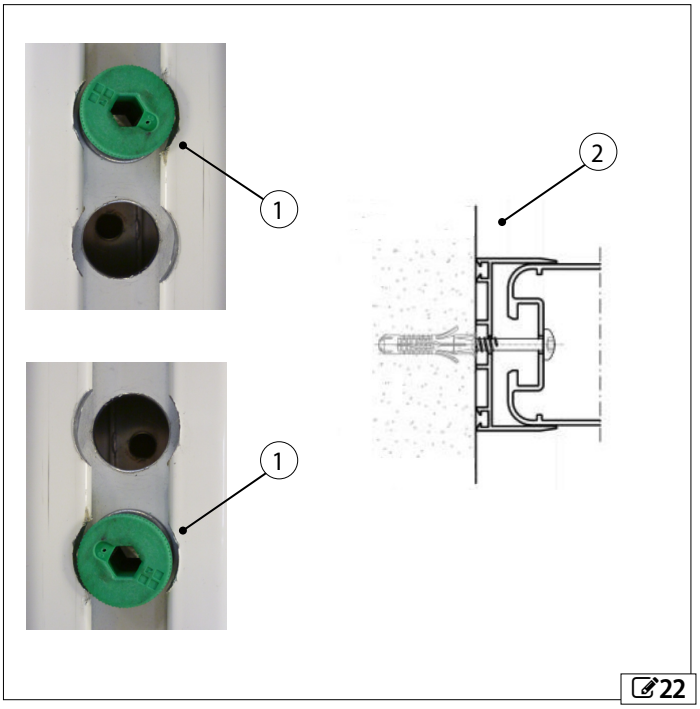
> The seal must be inserted with the spline side towards the inside of the profile ✎**24**-**1**.

ASSEMBLY OF THE HEAD SECTION TO THE UPPER PROFILE

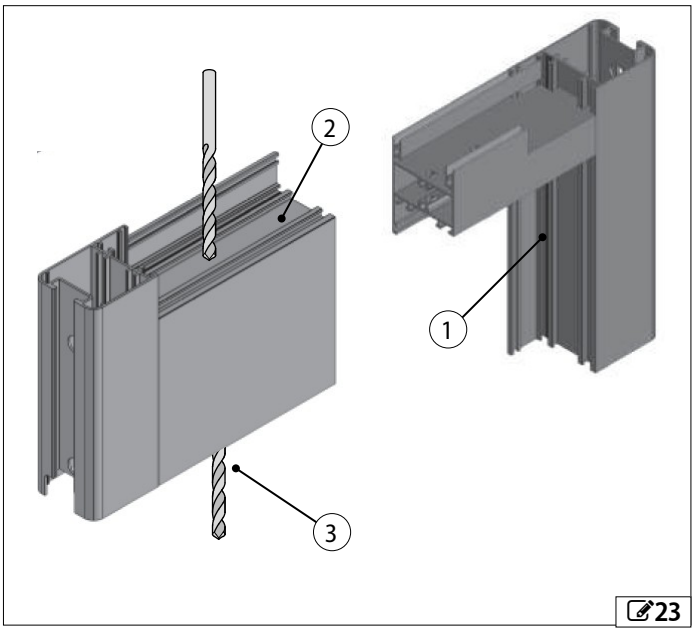
Mount the assembled head section onto the upper profile by means of suitable attachments.

After mounting the head section, perform all procedures to secure the leaf to the carriages as set out in the chapters concerning kit assembly.

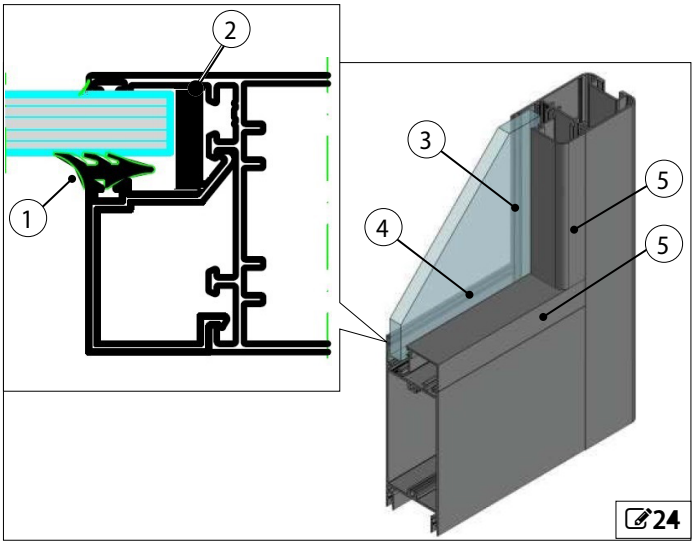
Also refer to chapter § § 8 for all the adjustment procedures.



✎22



✎23



✎24

7.2 ENTRY DOOR WITH TK20 PROFILES

PRELIMINARY OPERATIONS

1. Check soundness of the installation opening (Masonry, Structural Metal Work, etc.).
2. Take the measurements of the opening.

> The frame must be fastened to the structure with suitable attachments.
> Ensure there are no hydraulic coils or electrical conduits under the floor at the planned drill points.

3. Measure the door frame and compare them with the opening measurements.
4. Check floor levelness with a spirit level.

ASSEMBLING THE FRAME

The supply includes:

- 4 leaves (2 fixed leaves and 2 mobile leaves with installed glazing).
- side and upper balancing profiles
- alignment profile
- fixed leaf beading
- floor shoe

1. Install the upper balancing profile ✎**25**-**1**.
2. Install the side balancing profiles ✎**25**-**2**.
3. Mount the floor profile ✎**25**-**3**.
4. Insert the fixed leaf by tilting it and inserting it into the top profile ✎**26** **1**, **2**, **3**.
5. Place horizontally then fasten the leaf.
6. Mount the upper labyrinth profile ✎**26**-**5**.

MOUNTING MOBILE LEAVES

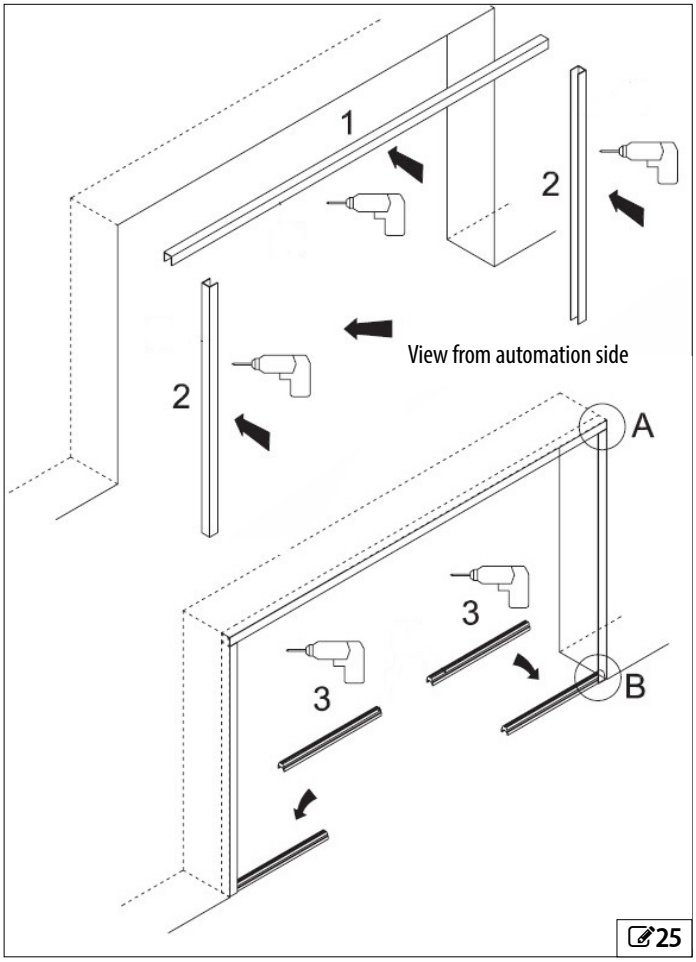
Mount the leaves as described in Chapter § 9.

ASSEMBLY OF THE HEAD SECTION TO THE UPPER PROFILE

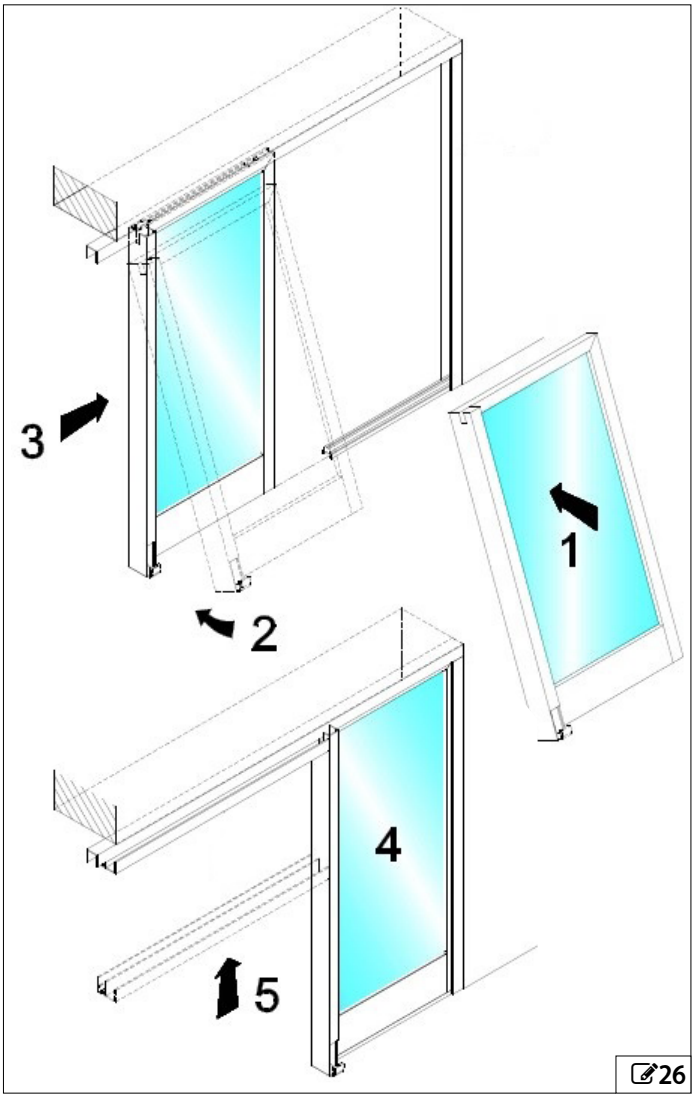
Mount the assembled head section onto the upper profile by means of suitable attachments.

After mounting the head section, perform all procedures to secure the leaf to the carriages as set out in the chapters concerning kit assembly.

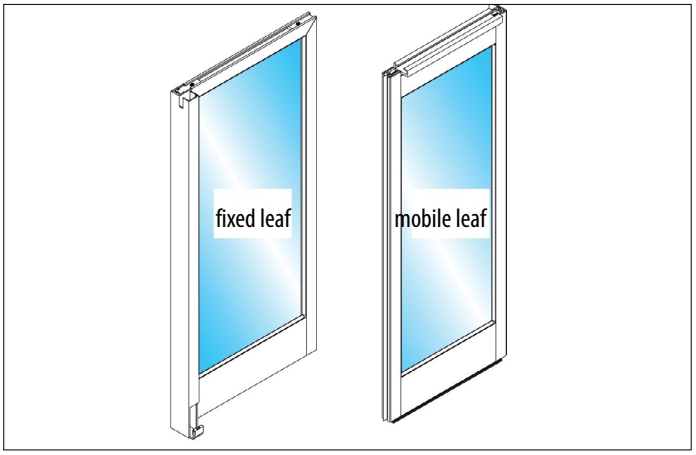
Also refer to the chapter for all the adjustment procedures.



✎25



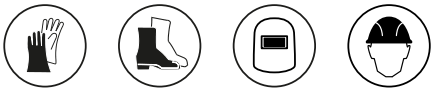
✎26



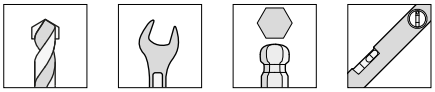
8. INSTALLING THE HEAD SECTION

RISKS

PERSONAL PROTECTIVE EQUIPMENT



TOOLS REQUIRED



Ø 8 mm | 8-10-13 | 5

For manual lifting, there should be 1 person for every 20 kg to be lifted.

8.1 PRELIMINARY OPERATIONS

1. To be able to perform fastenings, the casing and electronics module must be temporarily disassembled and the components must be moved as they are a hindrance.

To make subsequent replacing easier, mark components' positions.

- With the automation on the ground, extract the safety cables and remove the casing.
- Loosen the screws of the electronics module and remove it.
- Loosen the screws of the components that are a hindrance (e.g. motors) and slide them along the profile.

2. Establish the fastening height of the support profile (see the installation diagrams provided online).

The minimum distance between the top of the support profile and the ceiling must be 80 mm ✎**27**.

Check the horizontal with a spirit level.

3. Continue according to the intended type of installation:
   - WALL FASTENING (see relative section).
   - SELF-SUPPORTING FASTENING with OPTIONAL accessory profile (see relative section) - if provided for specific requirements.

8.2 WALL FASTENING

The supporting wall must be adequate for the weight of the entry door (automation with leaves). It is recommended to use dowels with adequate screws and tightening torque.

1. Lift the support profile to the established fastening height.
2. Mark the drilling points on the wall.

Check the horizontal with a spirit level.

3. Drill the holes on the wall.
   - Use suitable drill bits for the wall material.
4. Lift the support profile. Start fastening at a vertical slot at one end and a horizontal slot at the other end.

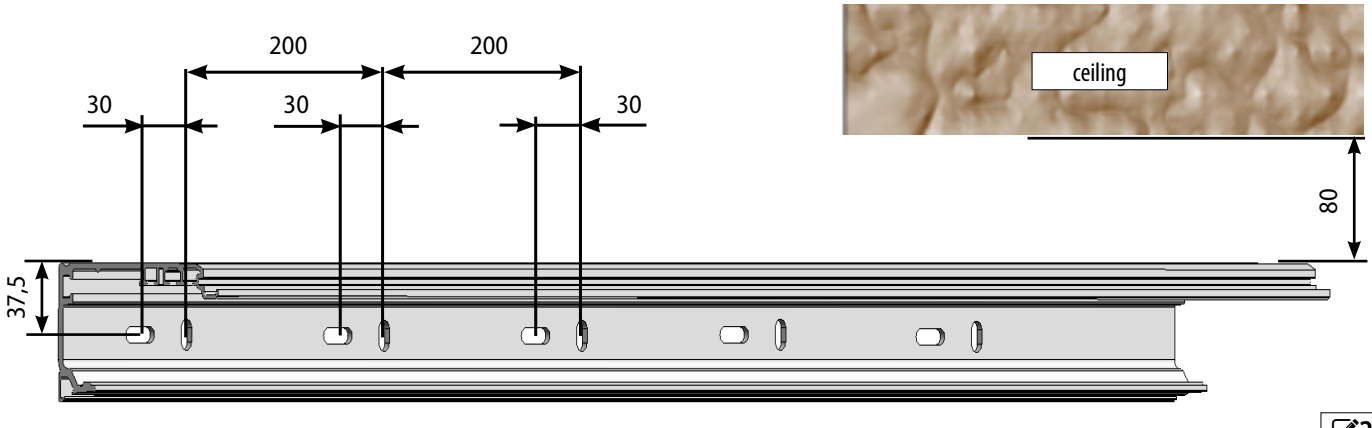
Check the horizontal with a spirit level.

5. First fasten it in the centre and then fasten it at the other points, alternating vertical and horizontal slots at a distance of 200 mm ✎**27**.

Upon completing head section installation, reposition the components you have moved and reassemble the electronics module in the correct position.

Finally, fit again the safety cables and the casing.

Screws and dowels not supplied.



✎**27**

8.3 MOUNTING THE SELF-SUPPORTING AUTOMATION

(IF PROVIDED)

The side supporting walls must be adequate for the weight of the entry door (automation with leaves). It is recommended to use dowels with adequate screws and tightening torque.

In the self-supporting version of the automation system (if supplied), the support profile is mounted on the self-supporting profile and the side brackets.

1. Lift the automation to the established fastening height and mark on the wall the drilling points at the 4 slots of each side bracket.

Check the horizontal with a spirit level.

2. Drill the holes on the side walls.
   - Use drill bits that are suitable for the material ✎**28**.
3. Lift the automation and fasten it to the side walls:
   - Use 4 suitable wall plugs in correspondence with the 4 slots on each of the two side brackets ✎**29**.

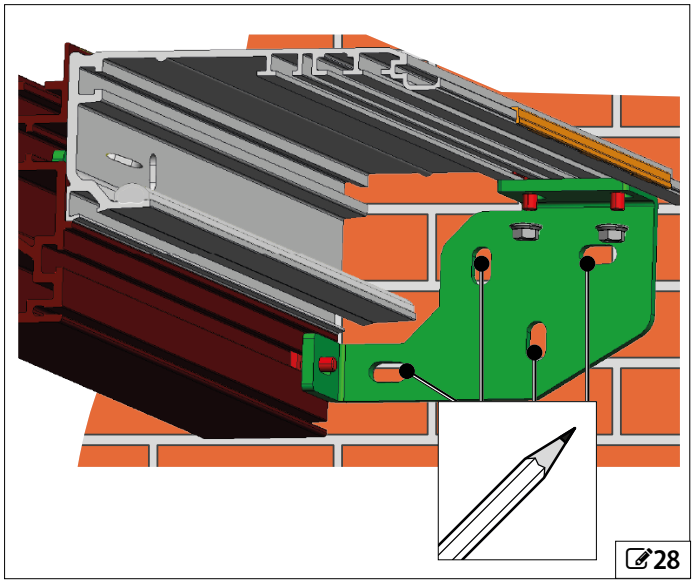
Check the horizontal with a spirit level.

4. If the length of the profile exceeds 3000 mm, tie rods must be fitted to the wall or ceiling, depending on the situation, in intermediate position to prevent bending of the head section's middle.

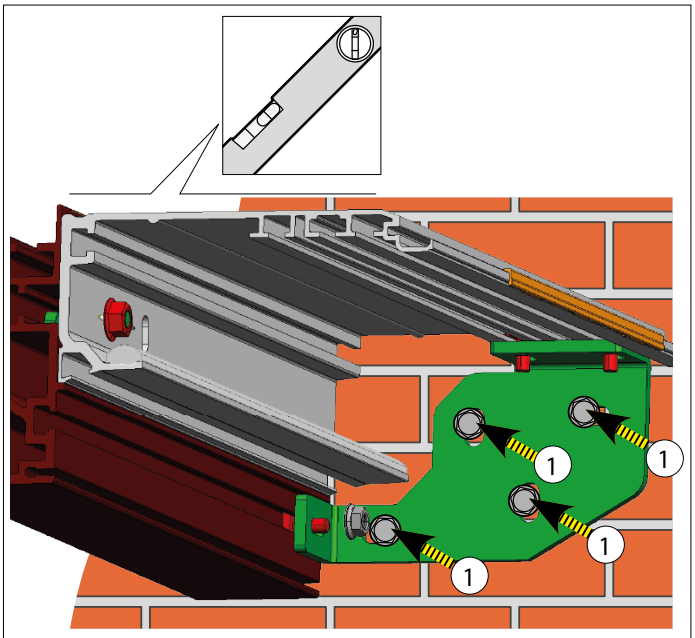
Use steel tie rods suitable for supporting a 600 kg load (the contact surface of the cable with the self-supporting profile must be at least 70 mm²)* ✎**30**.

5. The number of tie rods required depends on the length of the profile:
   - from 3000 to 4000 mm, a central fastening is required.
   - from 4000 to 6100 mm, two intermediate fastening points are required.

It is nevertheless recommended to fit a tie rod in a central position also for lengths less than 3000 mm.

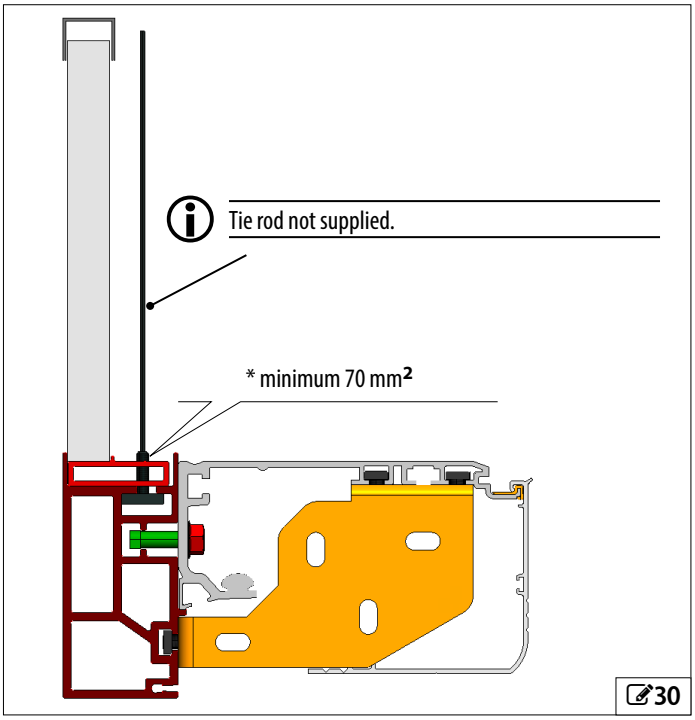


✎**28**



Screws and dowels not supplied.

✎**29**



✎**30**

8.4 MOUNT THE TRANSOM

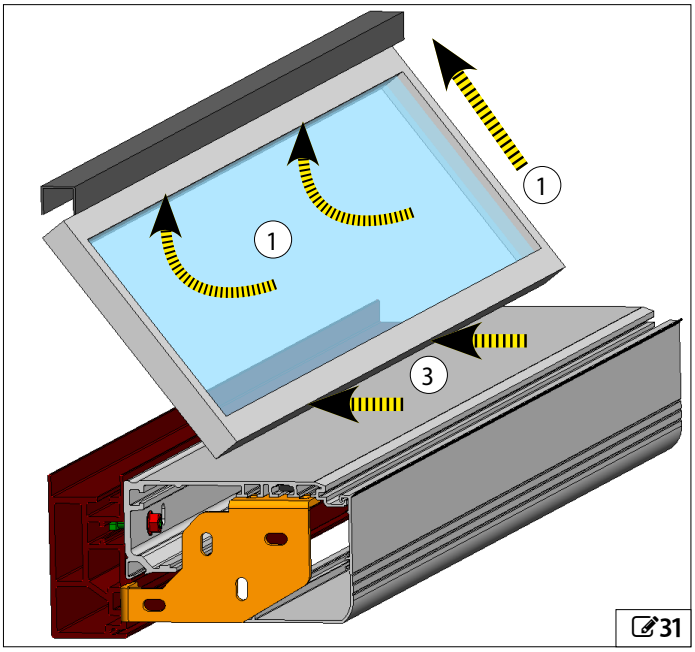
(OPTIONAL)

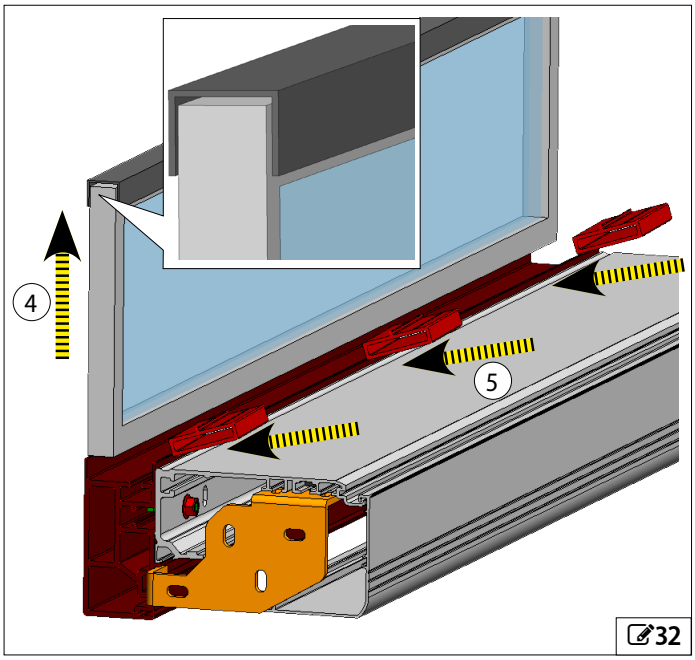
The optional transom is provided in the event of self-supporting head section.

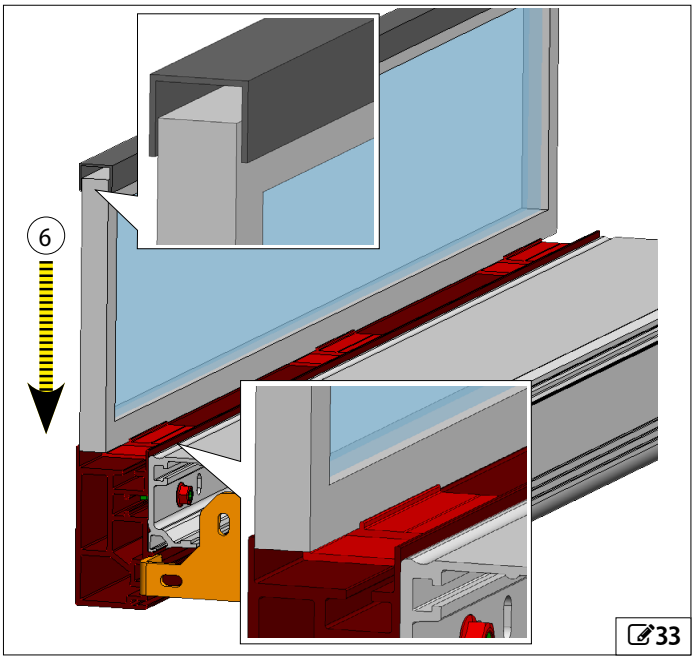
1. Insert the transom panel into the slot on the self-supporting profile ✎**31**.
2. Keep the panel raised in order to insert the profiles at a regular distance ✎**32**.
3. Lower the panel onto the profiles ✎**33**.
4. Install a tie rod (not provided) in the centre ✎**34**.

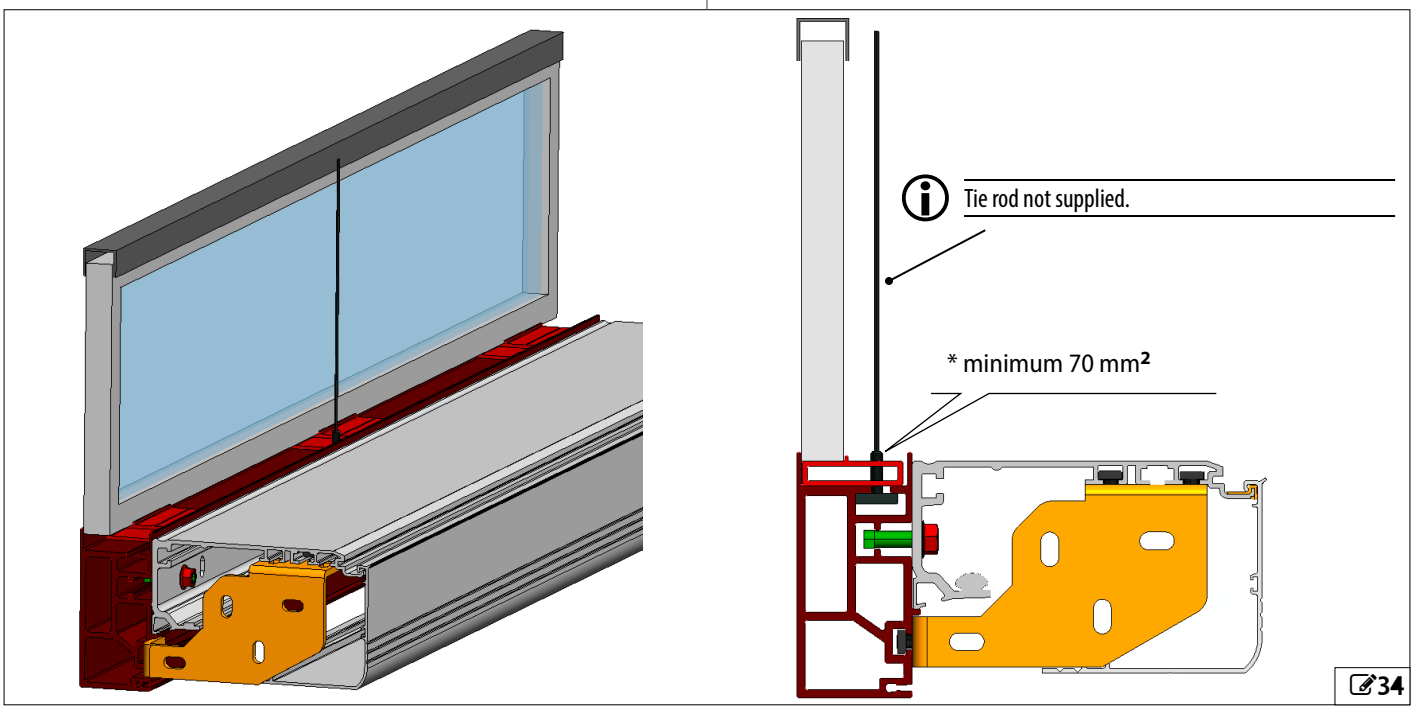
Use steel tie rods suitable for supporting a 600 kg load (the contact surface of the cable with the self-supporting profile must be at least 70 mm²)* ✎**30**.

The number of tie rods required depends on the length of the profile: install one tie rod every 2500 mm.







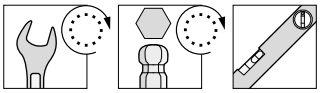


9. INSTALLING THE LEAVES

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED



max 20Kg For manual lifting, there should be 1 person for every 20 kg to be lifted.

9.1 MOUNTING THE LOWER SHOES

SHOE WITH BRACKET TK50

For fastening to the wall or the fixed leaf ✎**35**.

- use suitable screws (not provided).

SWIVEL SHOE TK50

For fastening to the floor ✎**36**.

- use suitable screws (not provided).

SHOE WITH BRACKET TK20

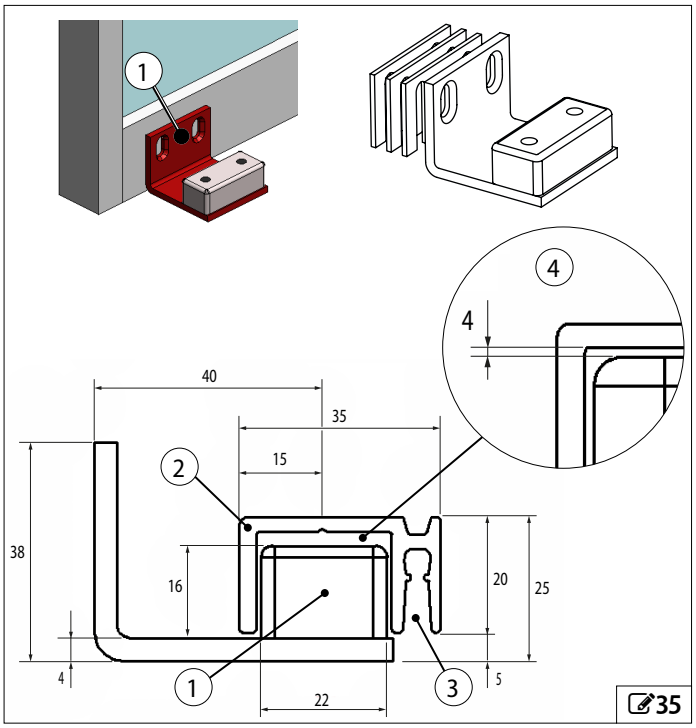
For fastening to the fixed leaf ✎**37**.

- use suitable screws (not provided).

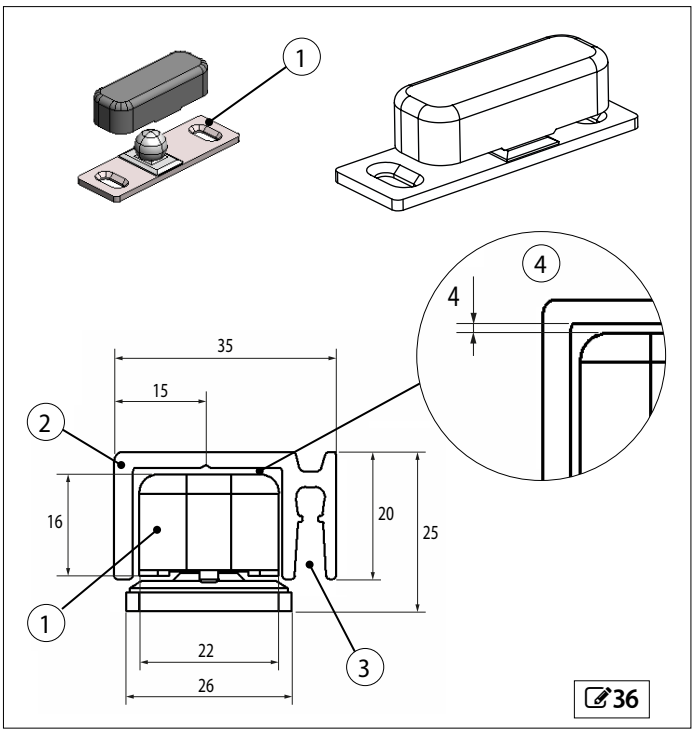
Check leaf verticality.

When the leaf is open or closed, the shoe must be fully inside the lower leaf profile.

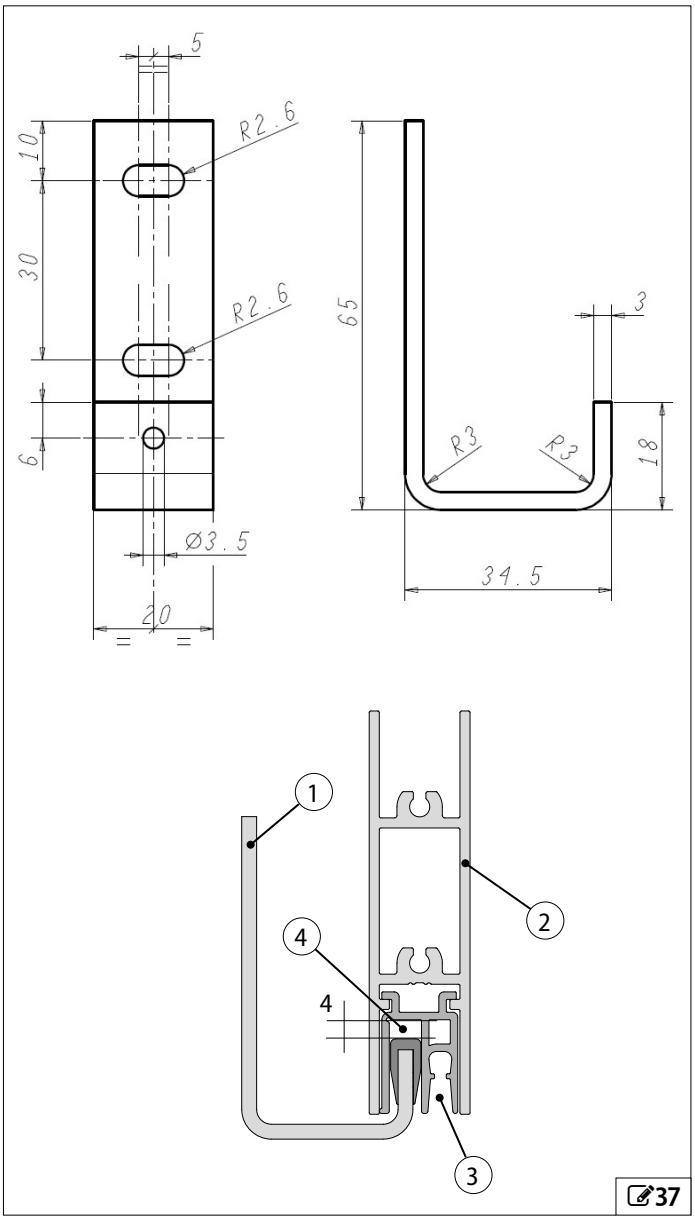
The distance between shoe and lower profile must be 4mm (ref.**4**-✎**35**-✎**36**-✎**37**).



✎**35**



✎**36**



✎**37**

9.2 MOUNT PROFILES ON THE LEAVES

Before installing the leaves, ensure there is no cutting or dragging hazard.
Check leaf verticality.
Remove any protrusions and/or sharp edges on the frame and leaves.

1. Position and fasten the attachment profile onto the top of the leaf ✎**38**.

Use suitable screws for the weight of the leaf with adequate tightening torque.

2. Position and fasten the lower guide profile onto the bottom of the leaf ✎**39**.

9.3 MOUNT THE LOWER BRUSH

(OPTIONAL ACCESSORY)

1. Cut the brush to the same length as the leaf.
2. Insert the brush into the appropriate housing in the lower guide profile ✎**39-1**.

GLASS LEAVES

For the installation of glass leaves, see the dedicated section.

9.4 INSTALLING THE LEAVES

Install each leaf as described below.

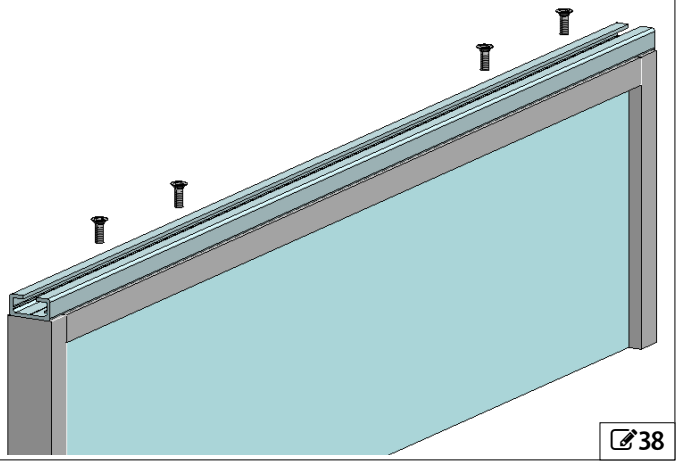
1. Disassemble the 2 carriages:
   - Remove the 2 fastening screws ✎**40-1**.
   - Separate the top plate of the carriage from the bottom plate ✎**40-2**.
2. Place the wheels of the upper plate unit on the sliding guide (two plates for each leaf) ✎**41-1**.
3. Adjust the counter wheel to prevent the carriage from falling ✎**41-2**.
4. Insert the lower plates of the carriage into the profile from the side ✎**41-3**.
5. Adjust the position of the two plates on the leaf.
   - Keep to the measurements indicated in the diagrams provided online.
6. Fasten the plates of the carriages using the 2 screws ✎**41-4**.
7. Lift the leaf until the upper and lower plates of the carriage ✎**42-1** come into contact. Align the slots.

For manual lifting, there should be 1 person for every 20 kg to be lifted.

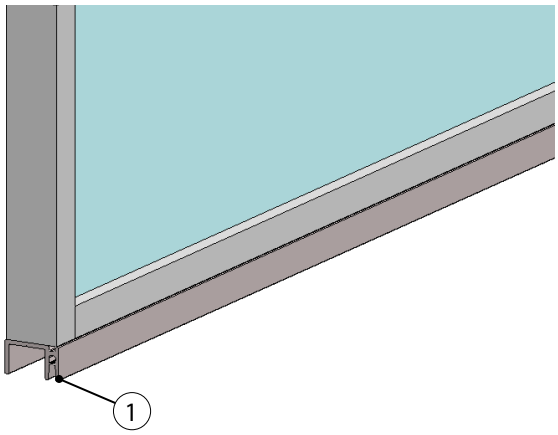
8. Fasten the 2 plates of the carriage together ✎**42-2**.

Adjust the counter wheel ✎**46**.

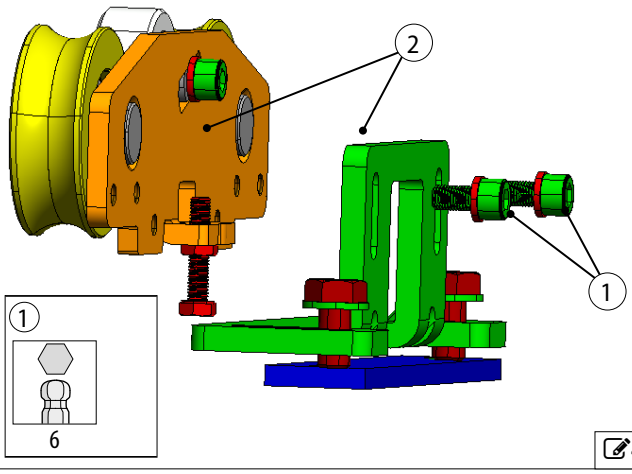
Screws not supplied.



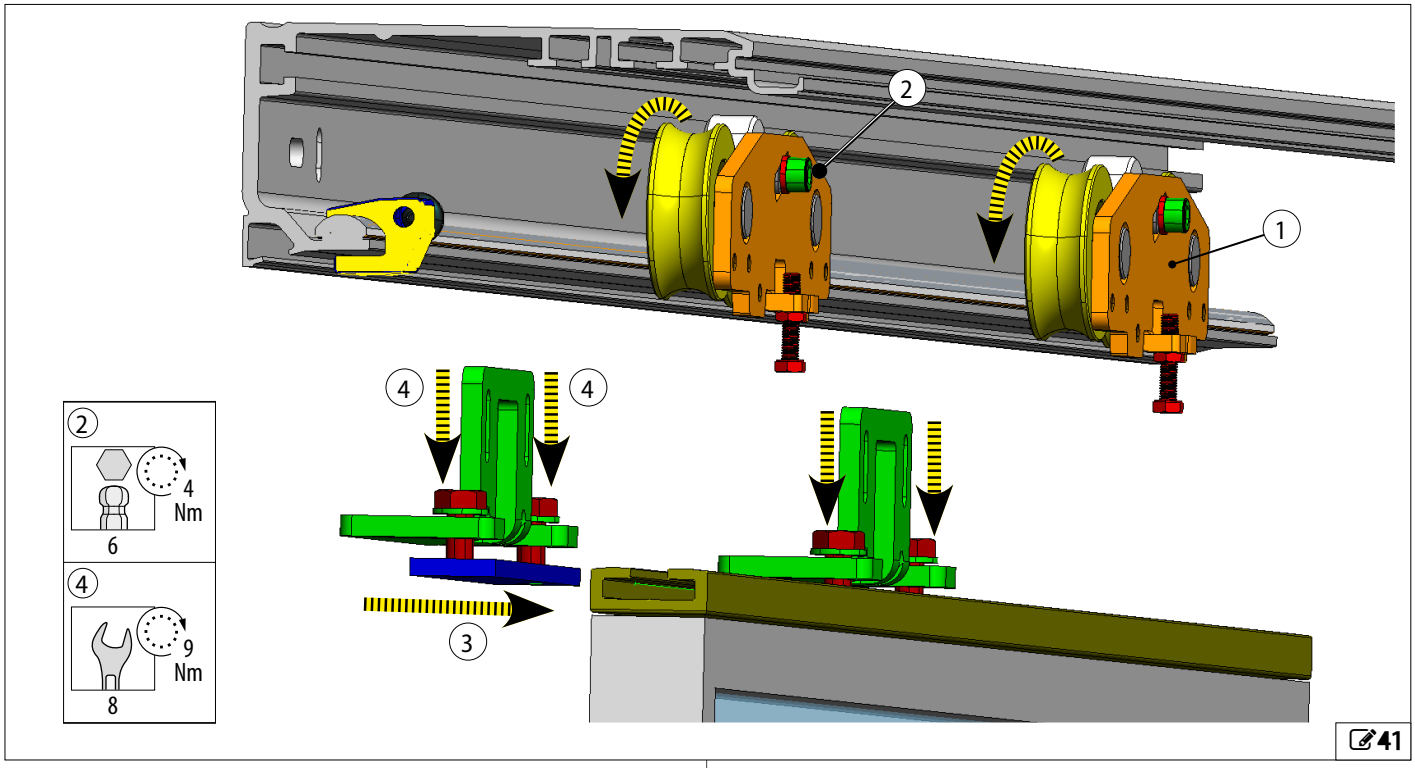
✎**38**



✎**39**



✎**40**



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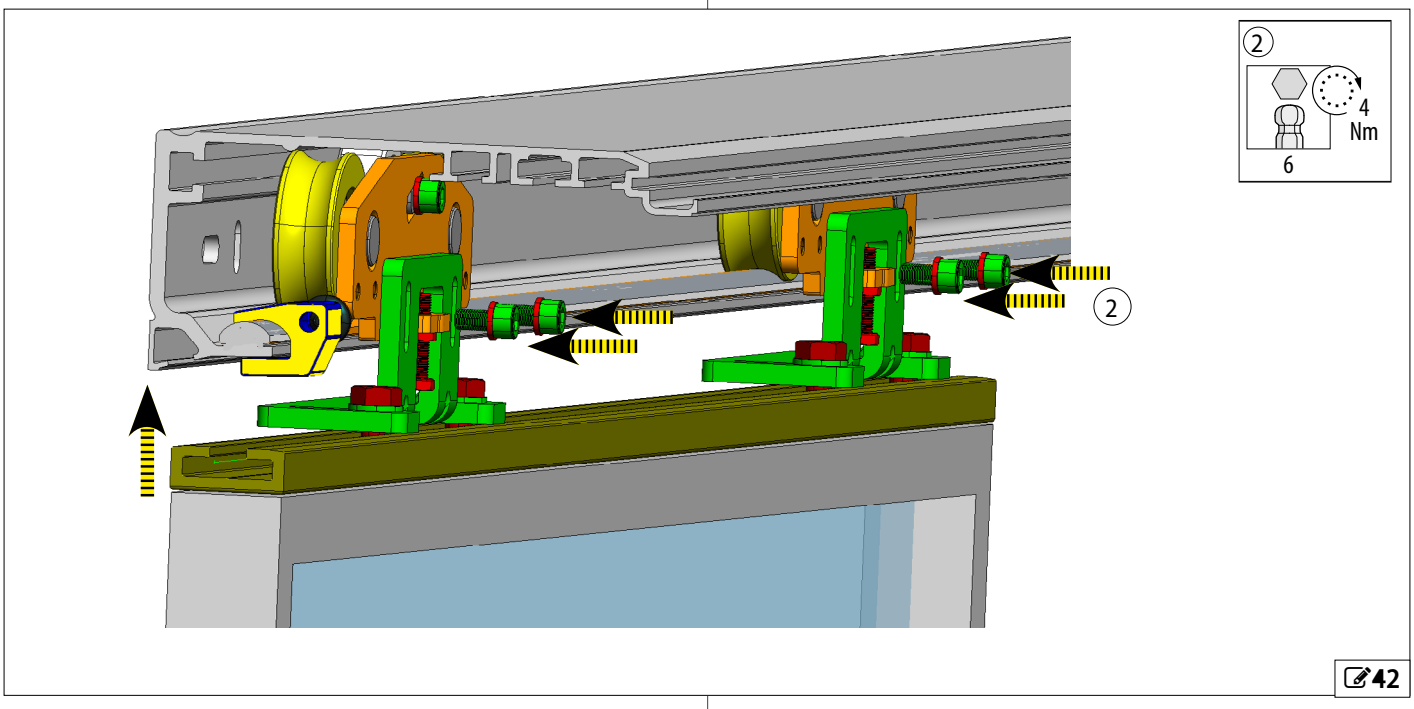

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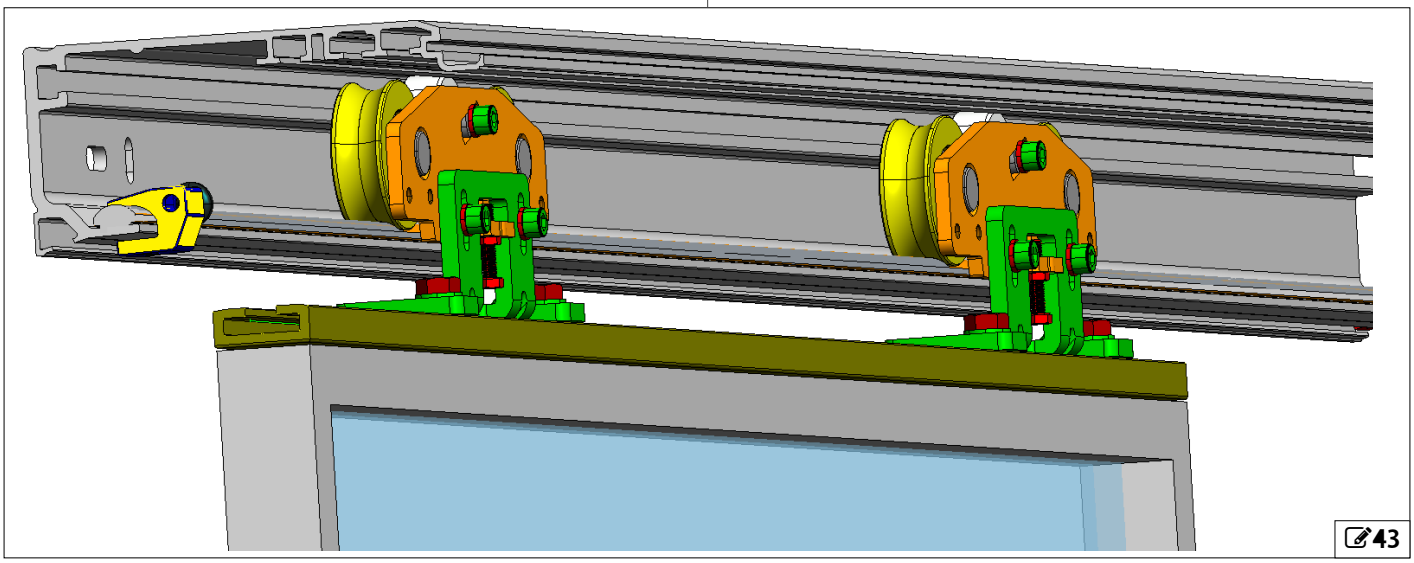

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9.5 ADJUSTING THE LEAVES AND CARRIAGES

In the configuration with the second motor kit, the wheels of the trolleys must be replaced with wheels specific for heavy doors.

Act on the carriages to adjust height and depth of the leaves.

Adjust the counter wheel to prevent the carriage coming off the sliding guide.

HEIGHT OF THE LEAVES

The carriages allow leaf height to be adjusted by ± 7.5 mm.

1. Slightly loosen the two screws **44-1**.
2. To lift the leaf, turn the screw **2** clockwise. To lower the leaf, turn screw **2** anti-clockwise.
3. Tighten the two screws **44-1**.

DEPTH OF THE LEAVES

1. Loosen the 2 screws **45-1**.
2. Move the leaf on the two slots at the base of the carriages as desired.
3. Tighten the 2 screws **45-1**.

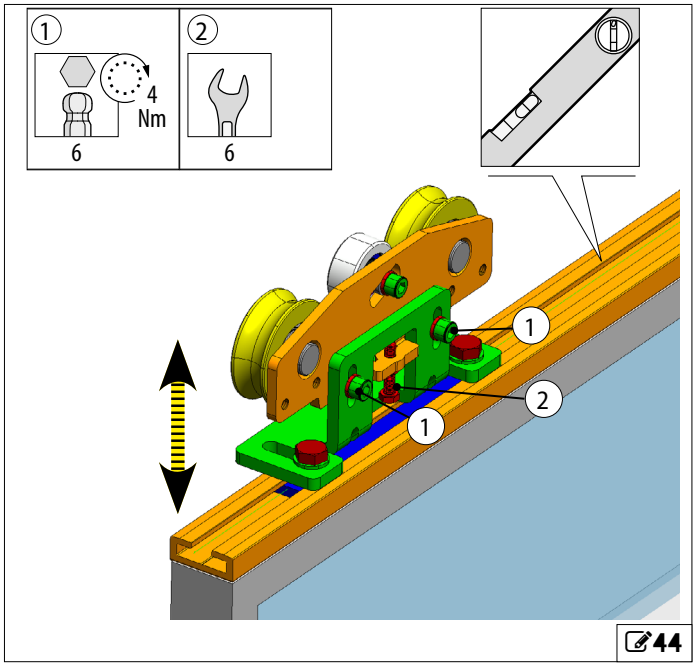
After the adjustments check the vertical and horizontal positions of the leaf with a spirit level.

COUNTER WHEEL

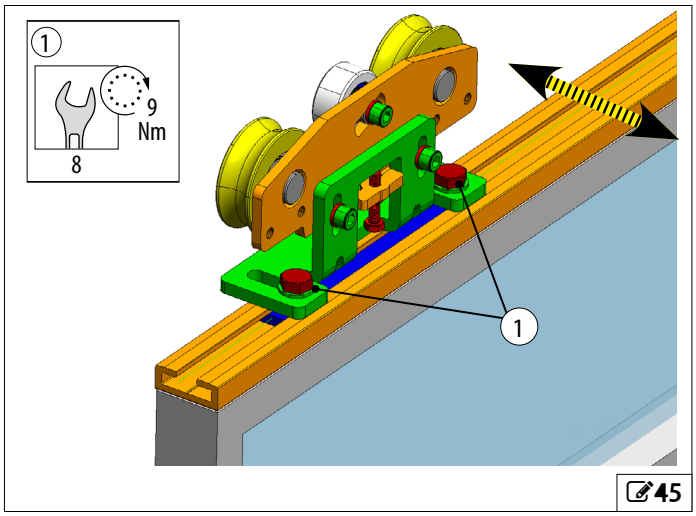
1. Loosen the screw **46-1**.
2. Adjust the height by sliding the wheel support in the diagonal slot **46-2**.
   - The wheel must be brought close to the top profile **46-3**. It is recommended to place a 0.5 mm shim between wheel and profile. Remove the shim upon completing adjustment.
3. Tighten the screw **46-1**.

Manually move the leaves to ensure the counter wheel runs freely along the entire stroke. Ensure there are no friction points with the surface of the support profile.

When installation has been completed, apply the FAAC stickers that were supplied with automatic door to the glass leaves.



44



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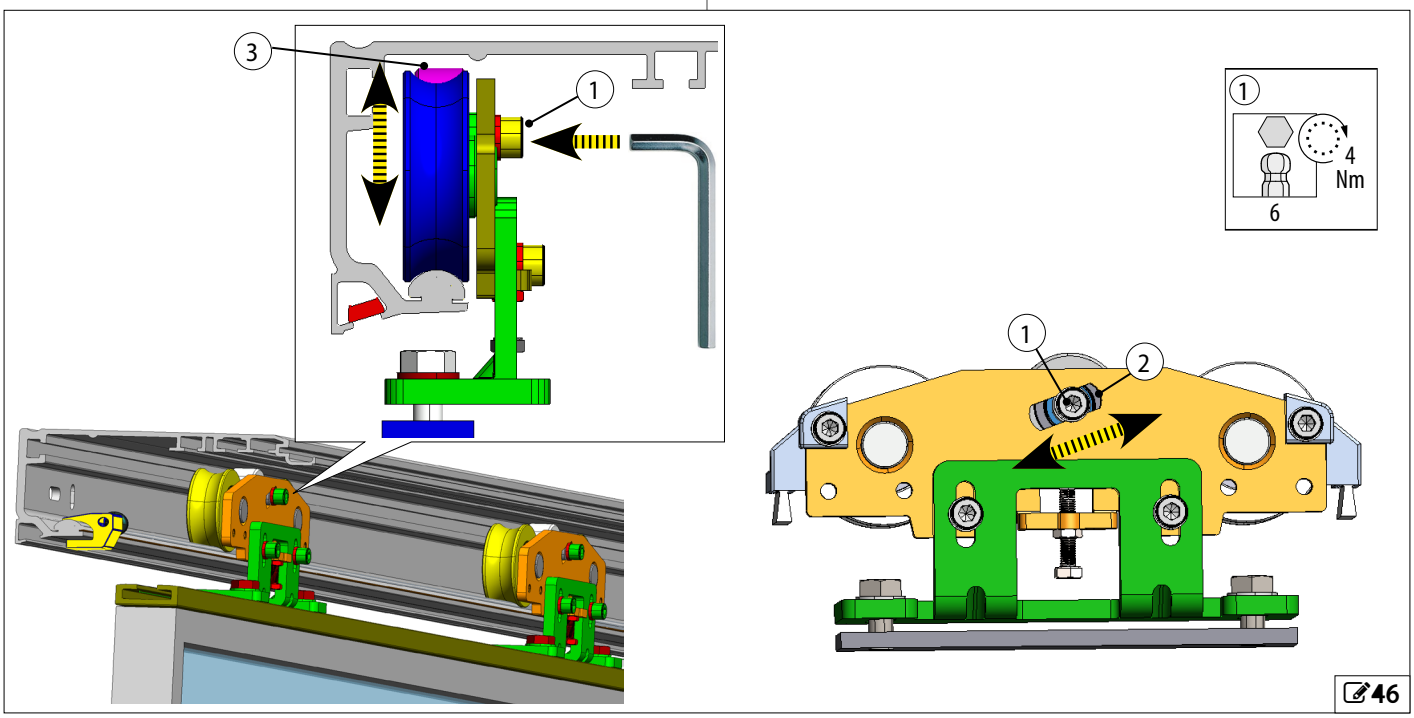

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10. INSTALLING THE GLASS LEAVES

RISKS

PERSONAL PROTECTIVE EQUIPMENT

For manual lifting, there should be 1 person for every 20 kg to be lifted. Use suitable glazing suction cups.

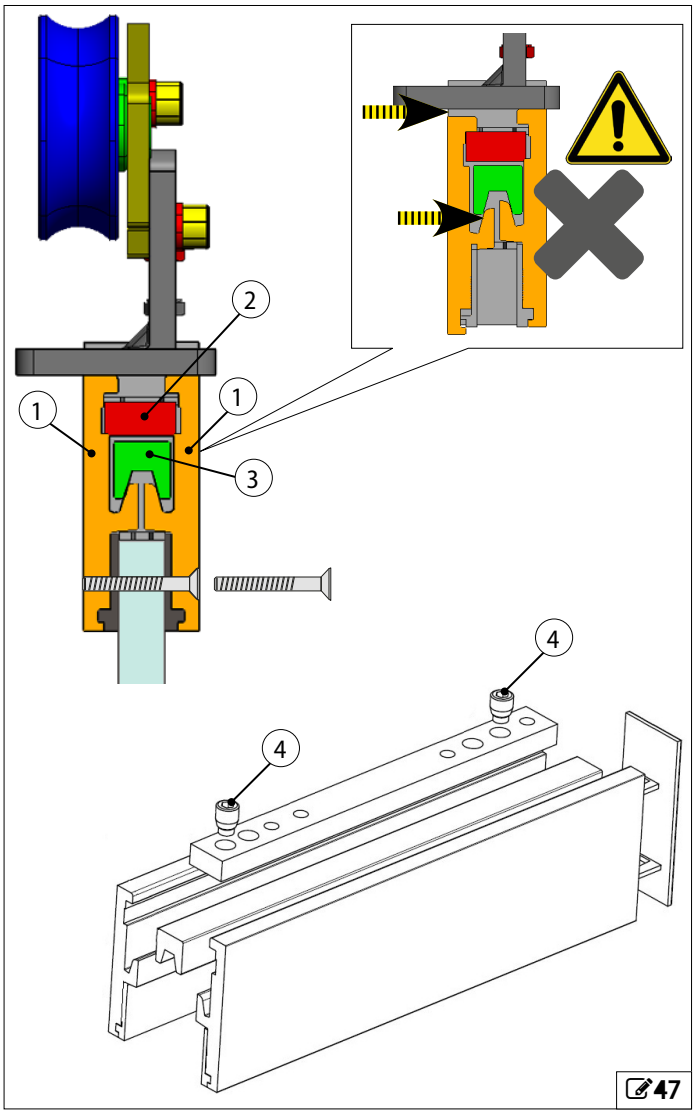
Comply with the glass thickness = 10-11 mm.

Refer to the GLASS LEAF GRIPPER KIT instructions.

1. The glass should be drilled as shown.
2. Insert a bush in each hole in the glass.
3. Make 2 holes on the profiles of the gripper.
4. Cut 2 pieces of seal glazing with the length equal to L.
5. Drill holes in the seals in correspondence to the holes in the glass.
6. Insert the 2 seals into the profiles.
7. Clean the glass, insert the gripper.

Ensure the seal is in its housing.

8. Assemble the gripper as follows: Insert elements **2** and **3** into the 2 plates **1**.
9. Tighten the 2 grub screws **47-4.**



47

10. The part **2** must be aligned with the fixing holes on the carriage **49-3**.
11. Insert 2 galvanised countersunk head screws into the holes.

The glass must be fully inserted until it touches the clamps on its upper profile. If the grip of the clamp on the glass is not correct, the glass might fall. The two clamp profiles must be aligned.

Install each leaf as described below.

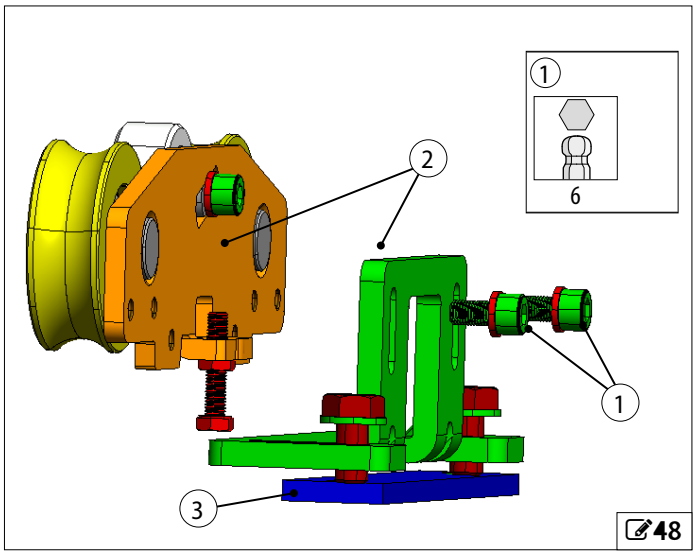
1. Disassemble the 2 carriages:
   - Remove the 2 screws ✎**48**-**1**.
   - Separate the top plate of the carriage from the bottom plate ✎**48**-**2** and remove the plate **3**.
2. Place the wheels of the upper plate unit on the sliding guide.
3. ✎**49**-**1** (2 plates for each leaf).
4. Adjust the counter wheel to prevent the carriage from falling ✎**49**-**2**.
5. Place the lower plate onto the glass leaf.
   - Keep to the measurements indicated in the diagrams provided online.
6. Fasten the lower plate onto the leaf gripper using the 2 screws ✎**49**-**3**
7. Lift the leaf until the upper and lower plates of the carriage ✎**49**-**6** come into contact. The slots must be aligned.
8. Fasten the 2 plates of the carriage together ✎**49**-**7**.
9. Adjust the counter wheel ✎**49**-**2**.
10. Insert the end cover ✎**49**-**8**.

⚠ Check leaf verticality.

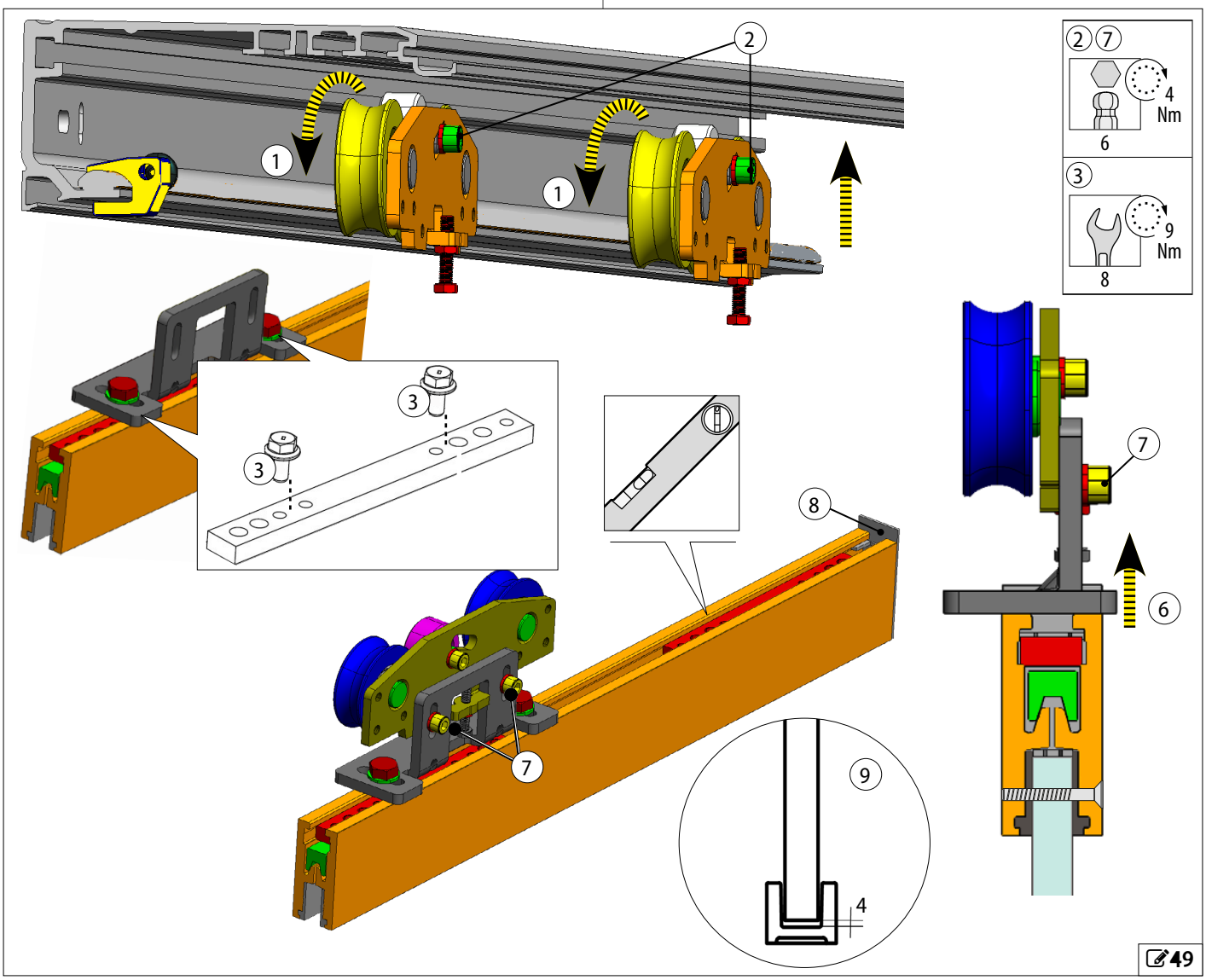
When the leaf is open or closed, the shoe must be fully inside the lower leaf profile.

The distance between glass and lower shoe must be 4mm ✎**49**-**9**.

When installation has been completed, apply the FAAC stickers supplied with the automatic door to the glass leaves.



✎**48**



✎**49**

10.1 INSTALLING THE WHEELS ON THE A1400 AIR DM

RISKS

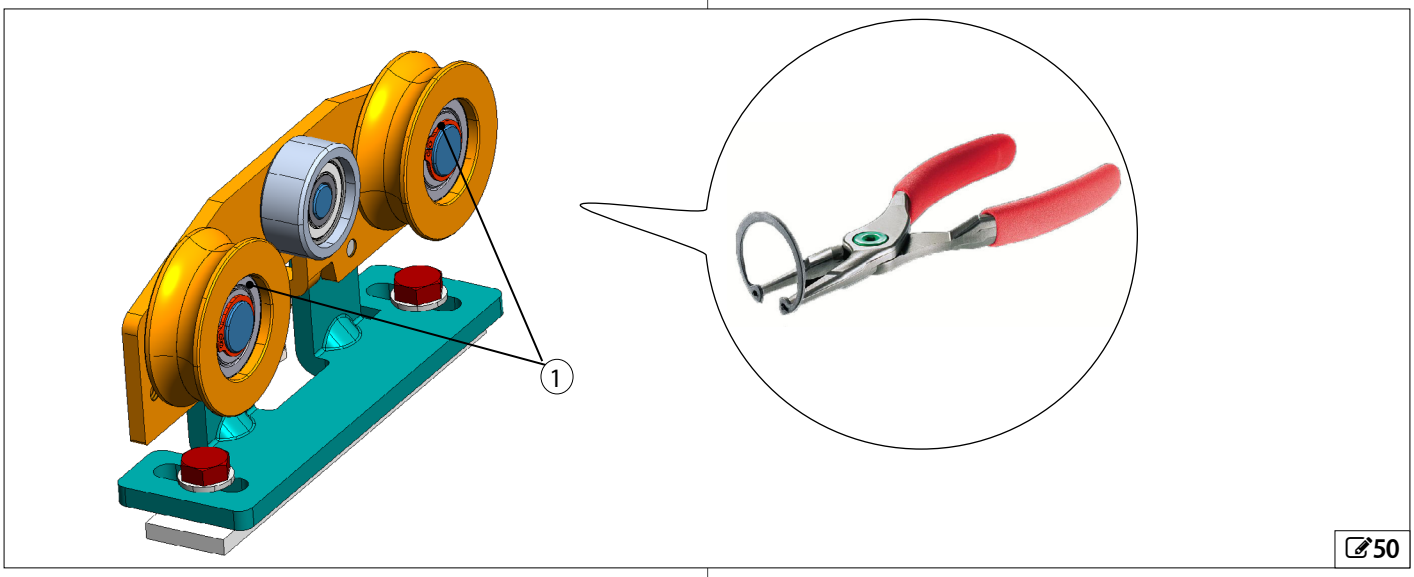
PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED

The A1400 AIR DM kit contains 8 wheels for use with heavy leaves, to be mounted on the carriages instead of the standard wheels.

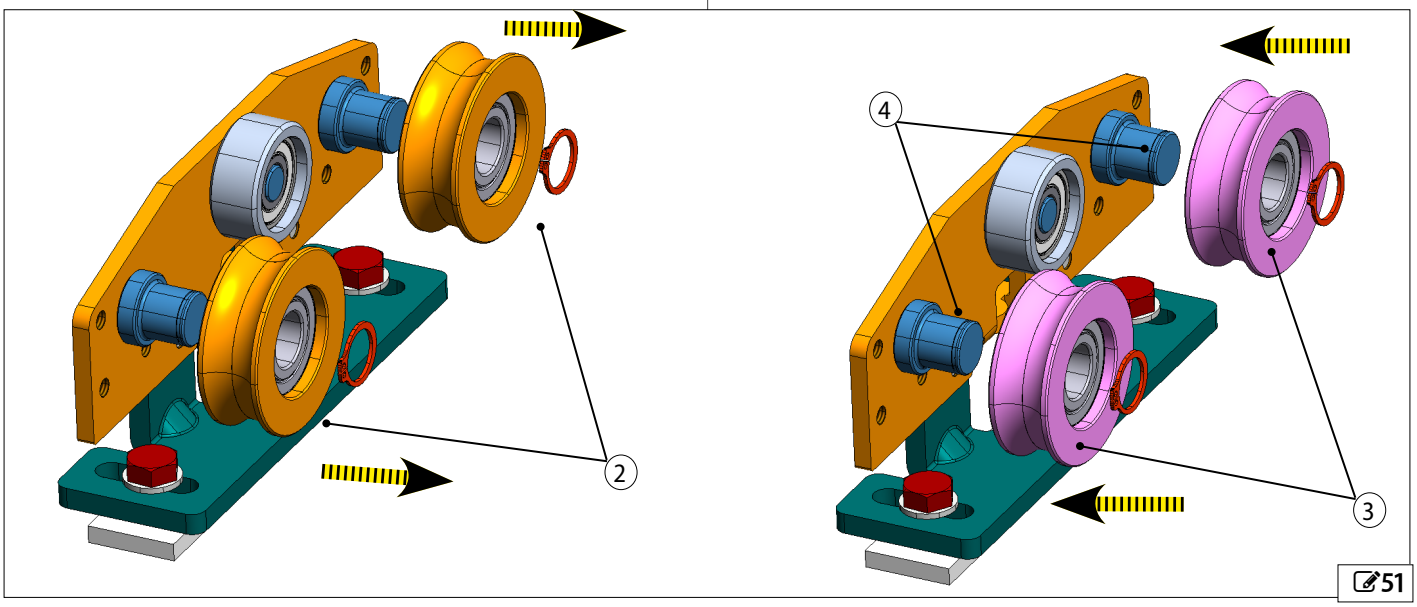
To remove the wheels, proceed as follows:

1. Release the Seeger ring and remove it from the wheels, using a circlip pliers ✎**50-1** .



✎**50**

2. Remove the wheels from the carriages ✎**51-2**.
3. Install the wheels for the A1400 AIR DM supplied in the kit ✎**51-3**.
4. Use circlip pliers to put the Seeger rings back into the grooves of the carriage pins to secure the wheels ✎**51-4**.

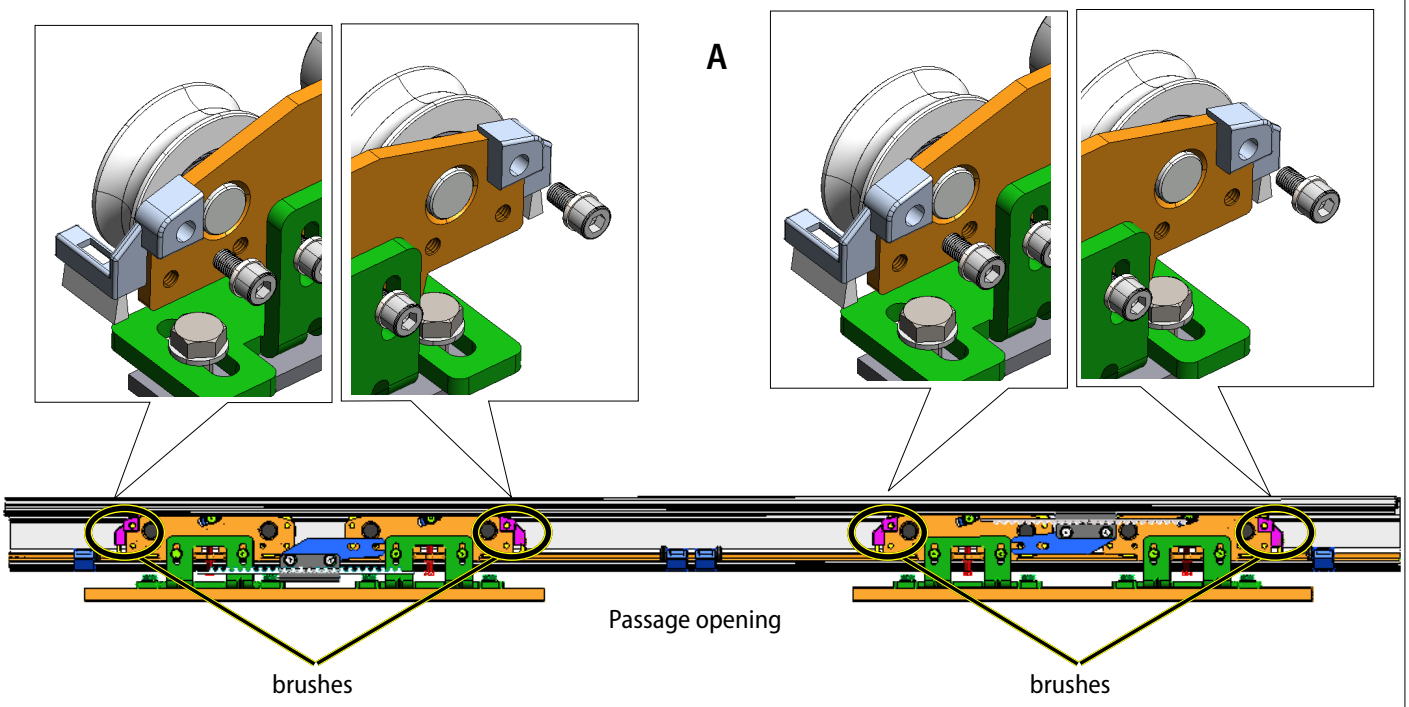


✎**51**

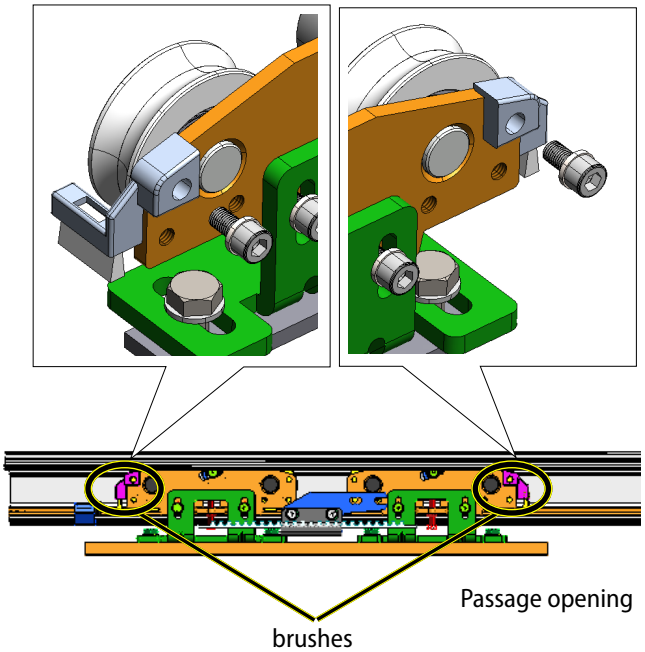
10.2 MOUNTING THE BRUSHES

For double / single leaf automations (✎52).

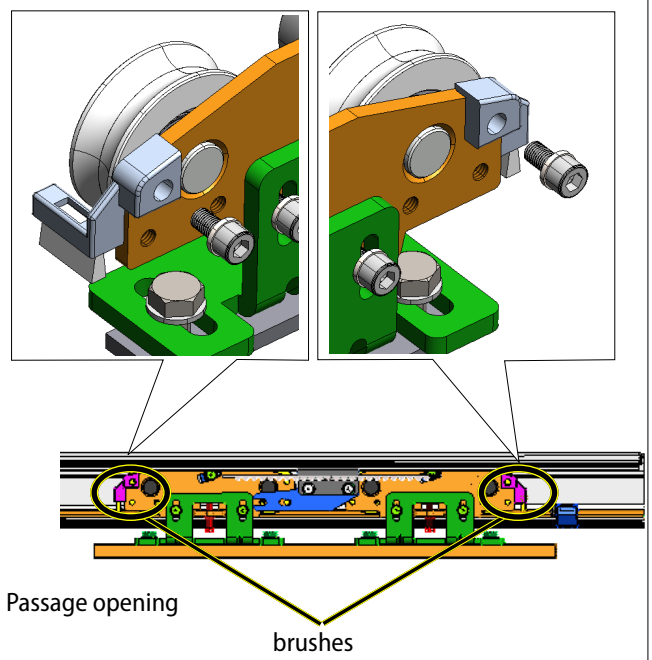
Double leaf



Left opening single leaf



Right opening single leaf



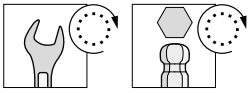
✎52

11. ASSEMBLE THE BELT, CASING AND ACCESSORIES

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED



Do not place hands between: the pulley and belt or between the sliding guide and carriage wheels.

11.1 MOUNTING THE BELT

close the leaves at the centre line (closing point in case of single leaf)
Move the leaves by hand and ensure the movement is smooth and friction-less along the stroke.

It is mandatory to use a FAAC belt for the A1400 AIR

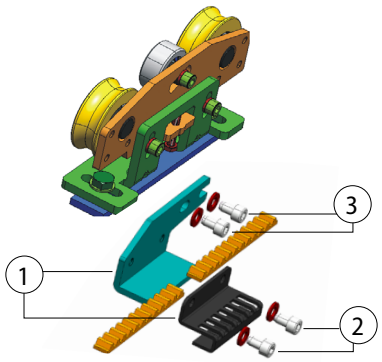
1. Place one end of the belt over the pulley of Motor_1. Fasten the two ends using the fittings ✎**53**(1) and screws ✎**53**(2).

The middle slot of the belt fitting must be left empty ✎**53-4**.

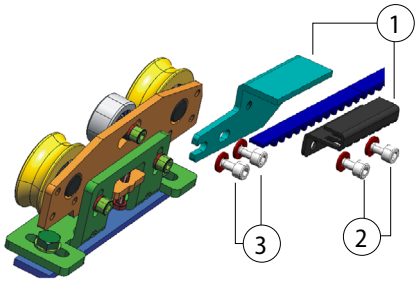
2. Position the assembled fitting with the belt on the carriage. Keep to the positions indicated in ✎**53** and fasten using the screws ✎**53-3**.

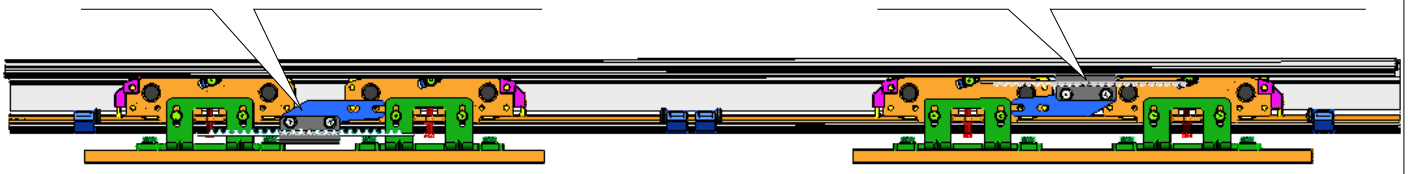
In case of double leaf, the belt joint must be fastened on the lower fitting (on the left leaf).
The position of the belt fitting determines the opening direction.

3. Position the belt also on the pulley of the second motor.



Double leaf with rM = 1 (Default)





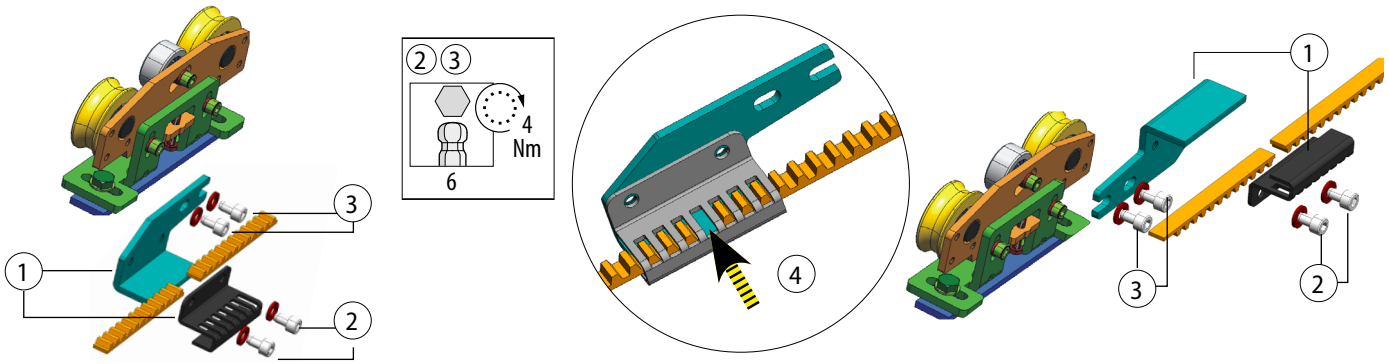
Left leaf Passage opening Right leaf

Double leaf with rM = -1

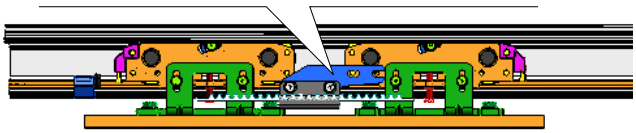
Left leaf Passage opening Right leaf

✎**53**

A1400 AIR 36 5322620102030406506 - Rev.B

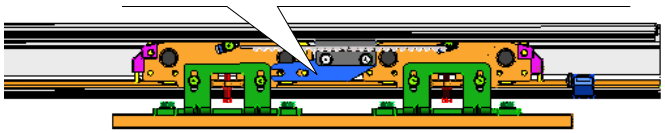


Single leaf - LH opening with rM = 1 (Default)
Single leaf - RH opening with rM = -1



Passage opening

Single leaf - RH opening with rM = 1 (Default)
Single leaf - LH opening with rM = -1



Passage opening

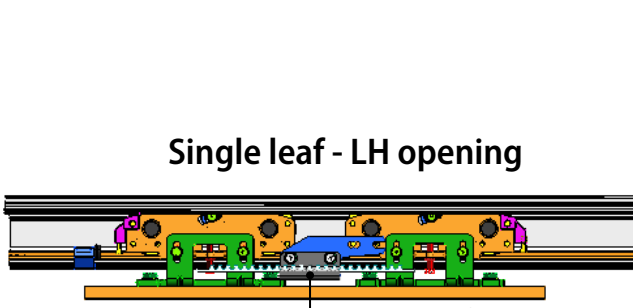
ADJUSTING THE BELT

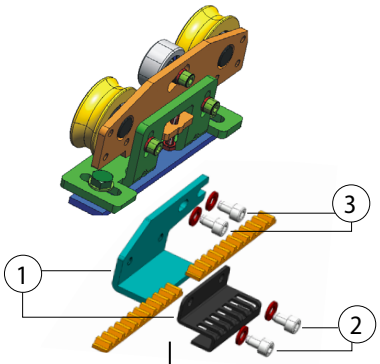
Open and close manually a few times: the belt must remain in its seat flush with the pulley.

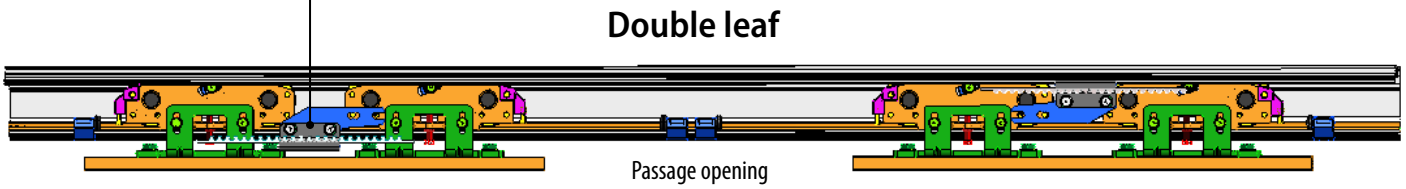
When the belt is installed, operate the leaves with care to prevent crushing your fingers between the carriage wheels and the sliding guide and between the pulley and belt.

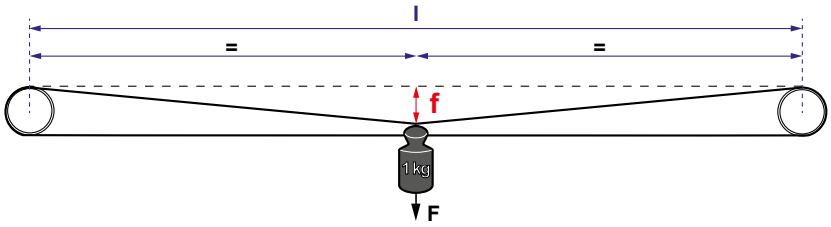
SINGLE LEAF WITH LH OPENING / DOUBLE LEAF

1. Connect the belt fitting to the carriage.
2. Attach a 1kg weight in the centre of the upper section of the belt.
3. Adjust the tension of the belt until the measurement of arrow f corresponds to the indications in ▦ **5**.
4. In the case of a double leaf: after adjustment, mount the second upper belt fitting and connect it to the carriage.



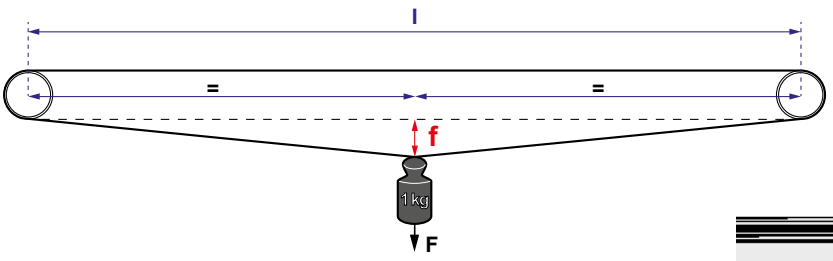


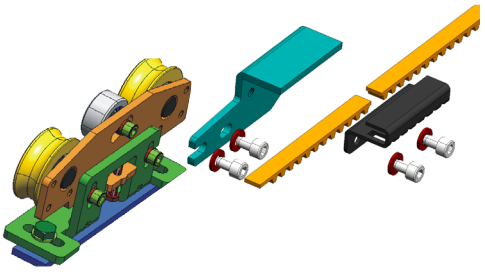


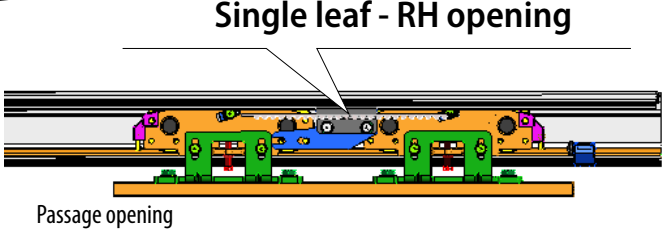


SINGLE LEAF WITH RH OPENING

1. Connect the belt fitting to the carriage.
2. Apply a 1 kg weight in the centre of the belts lower section.
3. Adjust the tension of the belt until the measurement of arrow **f** corresponds to the indications in ▦ **5**.







11.2 BELT TENSIONING

1. To tension the belt correctly, proceed as follows.
2. Loosen the nut 54 -1.
3. Adjust the screw and nut 54-2 to tension or slacken the belt.
4. Attach a **1 kg** weight in the centre of the lower section of the belt.
5. Measure the arrow **f** and adjust the screw 54 -2 using a hex spanner until obtaining the measurement specified in the table.
6. After adjustment, tighten the nut 54-1.
7. Carry out a few cycles and make sure the belt remains in its seat flush with the pulley on the main motor and on the return pulley.

Caution - make sure that the belt remains flush with the pulleys on the main motor and the return pulley.

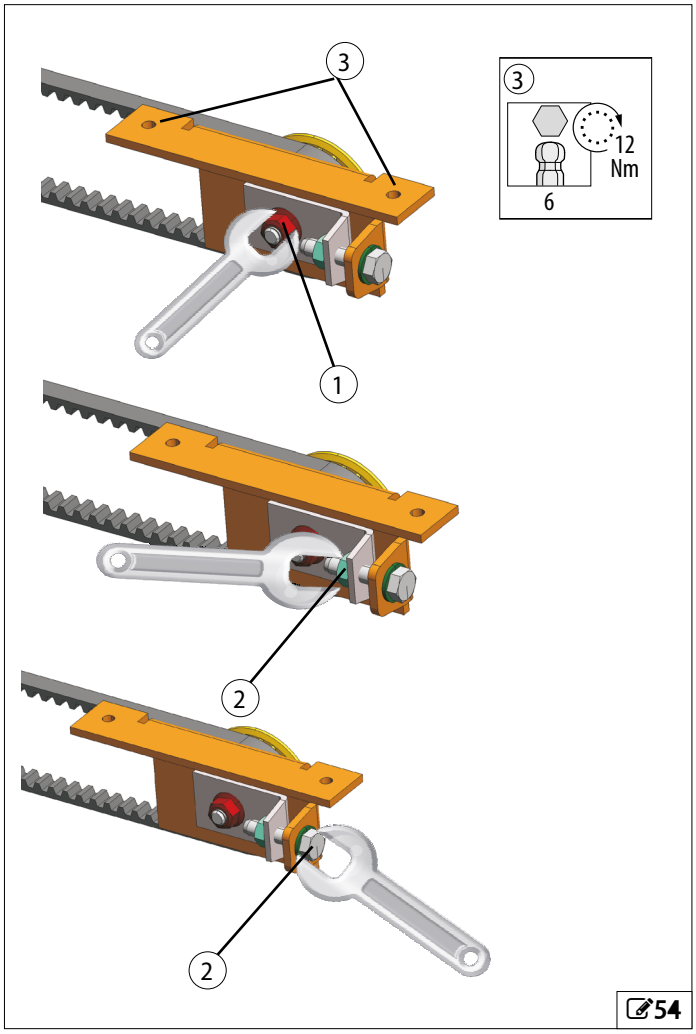
8. If the belt is not flush with the pulleys, loosen the fastening screws of the return pulley bracket 54 -3.
9. Rotate the return pulley bracket clockwise.
10. Tighten the bracket fastening screws.
11. Perform a few cycles again and check that the belt remains flush with the pulley.

Close the door and ensure:

- the closing point between the two leaves matches with the centre line of the support profile.
- complete opening and closing is possible.

In case of deviation, check the position and correct connection of the belt fittings.

When the belt is new tensioning adjustment must be repeated after the first 100 cycles.



5 Belt tensioning (measurements in mm)

RH single leaf Pulley centre distance (I)	Belt length	f
1150	2470	18
1200	2570	19
1250	2670	20
1300	2770	20
1350	2870	21
1400	2970	22
1450	3070	23
1500	3170	23
1550	3270	24
1600	3370	25
1650	3470	26
1700	3570	27
1750	3670	27
1800	3770	28
1850	3870	29
1900	3970	30
1950	4070	30
2000	4170	31
2050	4270	32
2100	4370	33
2150	4470	34
2200	4570	34
2250	4670	35
2300	4770	36

LH single leaf Centre distance pulleys (I)	Length belt	f
1170	2510	18
1265	2700	20
1360	2890	21
1455	3080	23
1550	3270	24
1645	3460	26
1740	3650	27
1835	3840	29
1930	4030	30
2025	4220	32
2120	4410	33
2215	4600	35
2310	4790	36
2405	4980	38
2500	5170	39
2595	5360	40
2690	5550	42
2785	5740	43
2880	5930	45
2975	6120	46
3070	6310	48
3165	6500	49
3260	6690	51
3355	6880	52

Double leaf Centre distance pulleys (I)	Length belt	f
1200	2570	19
1310	2790	20
1420	3010	22
1530	3230	24
1640	3450	26
1750	3670	27
1860	3890	29
1970	4110	31
2080	4330	32
2190	4550	34
2300	4750	36
2410	4970	38
2520	5190	39
2630	5410	41
2740	5630	43
2850	5850	44
2960	6070	46
3070	6290	48
3180	6510	50
3290	6730	51
3400	6950	53
3510	7170	55
3620	7390	56

11.3 BELT TENSIONING WITH THE A1400 AIR DM

1. Move the second motor manually to tension the belt.
2. Fasten the bracket using the 2 screws ✎55 -1
3. Loosen the 3 screws ✎55-2.
4. Loosen the nut ✎55-3.
5. Attach a **1 kg** weight in the centre of the lower section of the belt.
6. Measure the arrow **f** and adjust the screw ✎55 -4 using a hex spanner until the measurement specified in the table is obtained.
7. After adjustment, tighten the 3 screws ✎55-2.
8. Tighten the nut ✎55-3.
9. Carry out a few cycles and make sure the belt remains in its seat flush with the pulley on the main motor and on the second motor.

⚠ Caution - make sure that the belt remains flush with the pulleys of the main motor and the second motor.

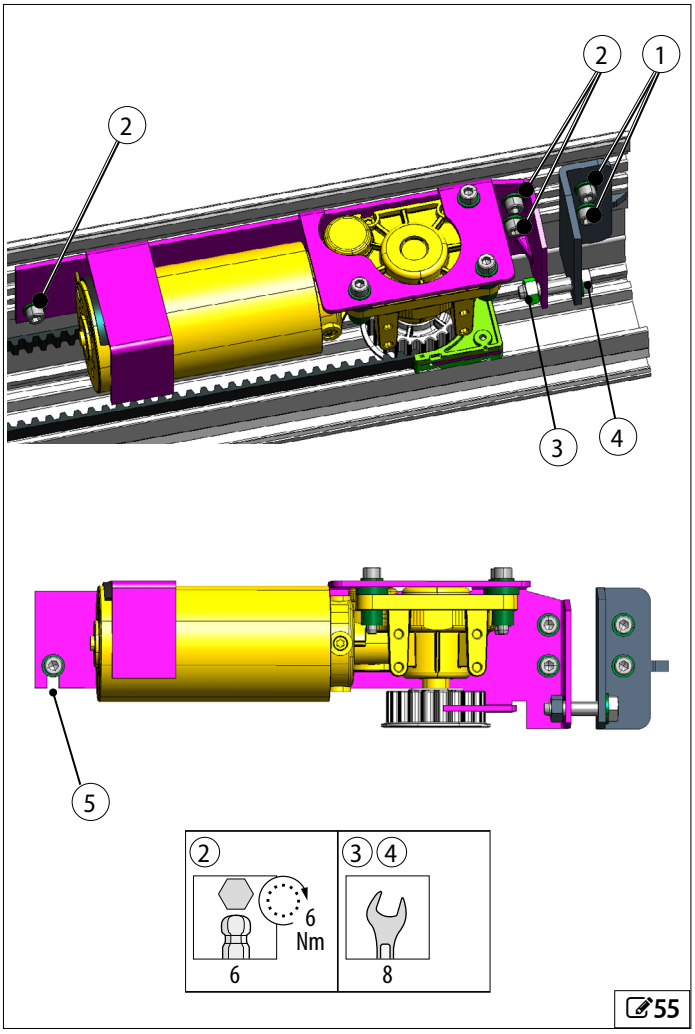
10. If the belt is not flush with the pulleys, loosen the 3 screws ✎55-2 and rotate the plate clockwise using the slot ✎55- 5.
11. After adjustment, tighten the 3 screws ✎55-2.
12. Carry out a few cycles again and make sure that the belt remains flush with the pulley of both motors.

⚠ Close the door and ensure:

- the closing point between the two leaves matches with the centre line of the support profile.
- complete opening and closing is possible.

In case of deviation, check the position and correct connection of the belt fittings.

When the belt is new tensioning adjustment must be repeated after the first 100 cycles.



6 Belt tensioning A1400 AIR DM (measurements in mm)

RH single leaf Pulley centre distance (I)	Belt length	f
1292	2744	20
1344	2848	21
1400	2960	22
1456	3072	23
1340	2840	21
1440	3040	22
1540	3240	24
1640	3440	26
1740	3640	27
1840	3840	29
1940	4040	30
2040	4240	32
2140	4440	33
2240	4640	35
2340	4840	37
2440	5040	38
2540	5240	40
2640	5440	41
2740	5640	43
2840	5840	44
2940	6040	46
3040	6240	47

LH single leaf Centre distance pulleys (I)	Length belt	f
1320	2800	21
1340	2840	21
1360	2880	21
1380	2920	22
1340	2840	21
1440	3040	22
1540	3240	24
1640	3440	26
1740	3640	27
1840	3840	29
1940	4040	30
2040	4240	32
2140	4440	33
2240	4640	35
2340	4840	37
2440	5040	38
2540	5240	40
2640	5440	41
2740	5640	43
2840	5840	44
2940	6040	46
3040	6240	47
3140	6440	49

Double leaf Centre distance pulleys (I)	Length belt	f
1440	3040	22
1550	3260	24
1660	3480	26
1770	3700	28
1880	3920	29
1990	4140	31
2100	4360	33
2210	4580	34
2320	4800	36
2430	5020	38
2540	5240	40
2650	5460	41
2760	5680	43
2870	5900	45
2980	6120	46
3090	6340	48
3200	6560	50
3310	6780	52
3420	7000	53
3530	7220	55
3640	7440	57
3750	7660	59

11.4 ADJUSTING THE MECHANICAL STOPS

The adjustment of the mechanical stops is indispensable for correct operation of the automation.

The carriages must come into contact with the mechanical stops positioned at stroke end in opening and closing.

STOPS ON OPENING

1. Loosen the 2 grub screws ✎**56**-**1** to release the mechanical stop.
2. Open the leaf completely ✎**57**-**1**.
3. Bring the pad of the mechanical stop and the carriage into contact ✎**57**-**2**.
4. Tighten the 2 grub screws to lock the mechanical stop ✎**56**-**1**.

DOUBLE LEAF CLOSING STOPS

In double leaf automations, the leaves must close at the head section centre line.

1. Move the leaves in the closed door position.
2. For each leaf, ensure the carriage is in full contact with the closing stop pad.

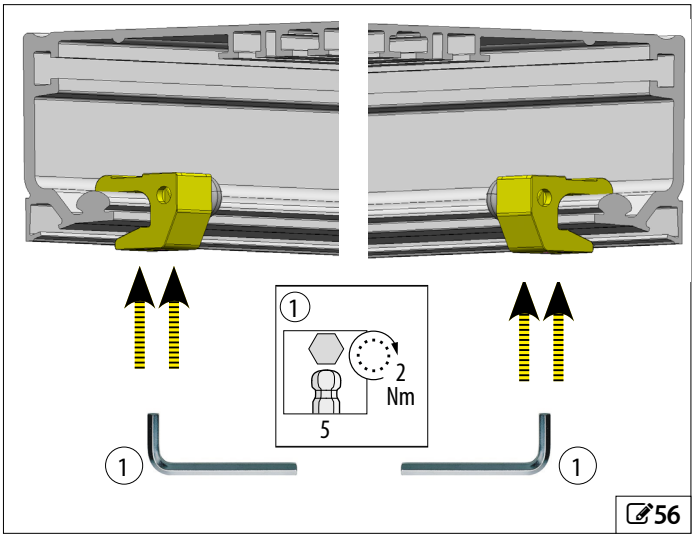
Should adjustment be required:

3. Bring the pad of the mechanical stop and the carriage into contact ✎**57**-**2**.
4. Tighten the 2 grub screws to lock the mechanical stop ✎**56**-**1**.

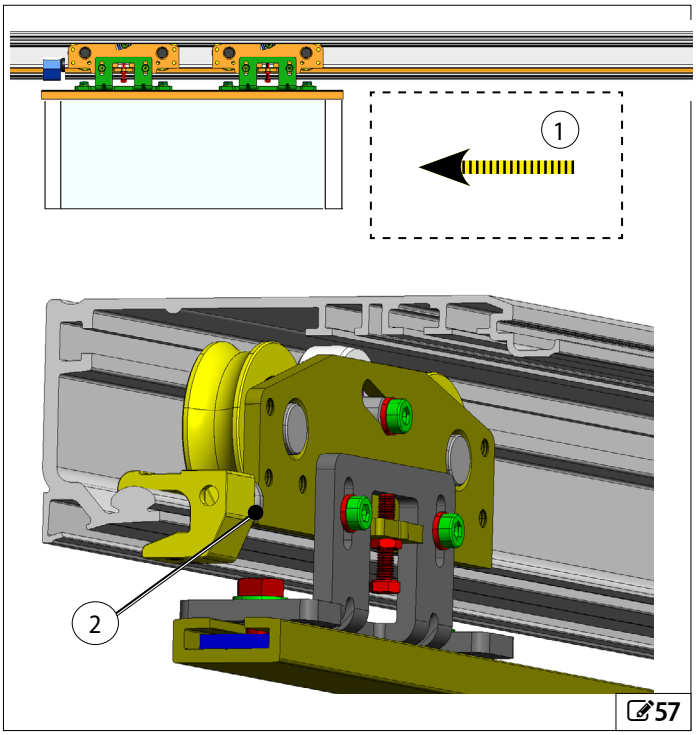
SINGLE LEAF CLOSING STOPS

With closed door the carriage must be in full contact with the mechanical stop.

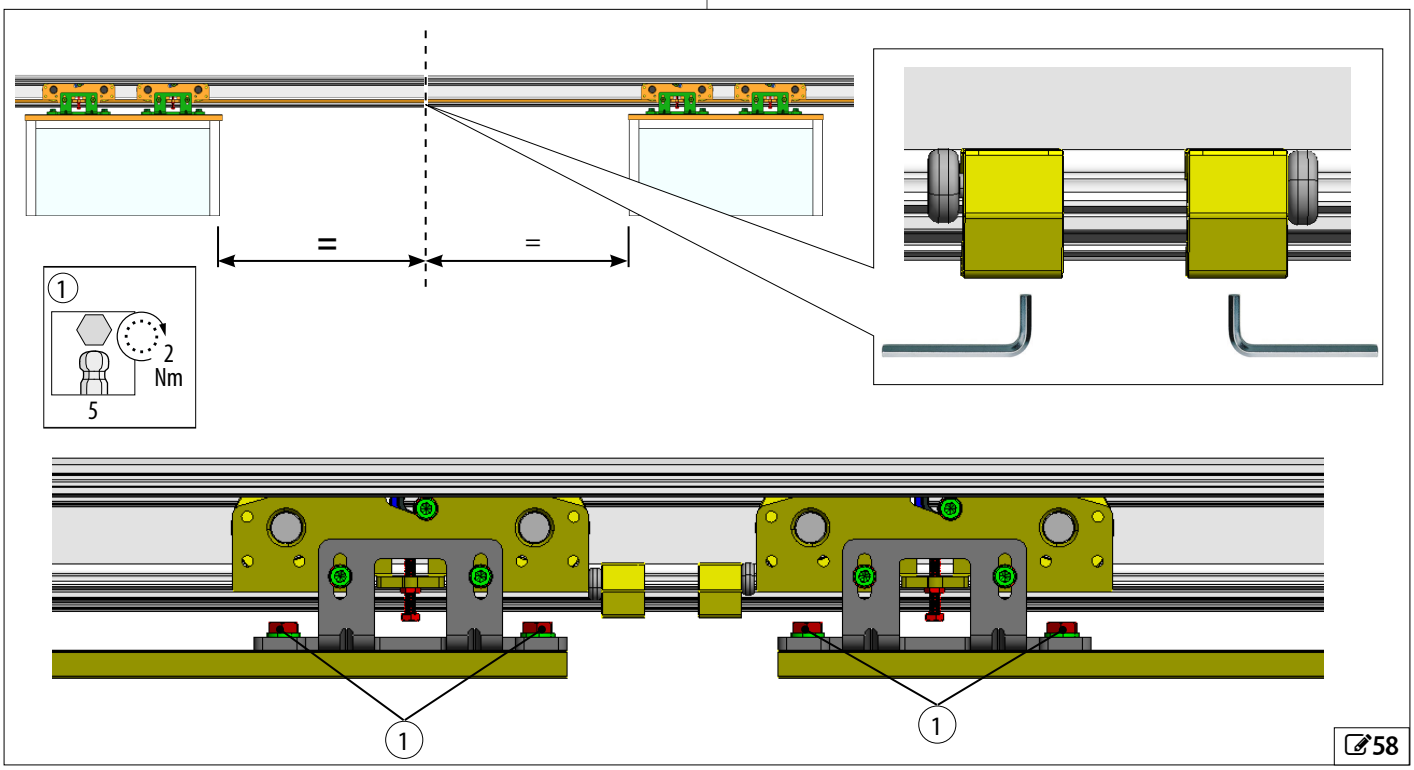
1. Loosen the 2 grub screws to release the mechanical stop ✎**56**-**1**.
2. Close the leaf.
3. Bring the pad of the mechanical stop and the carriage into contact ✎**57**-**2**.
4. Tighten the 2 grub screws to lock the mechanical stop ✎**57**-**1**.



✎56



✎57



✎58

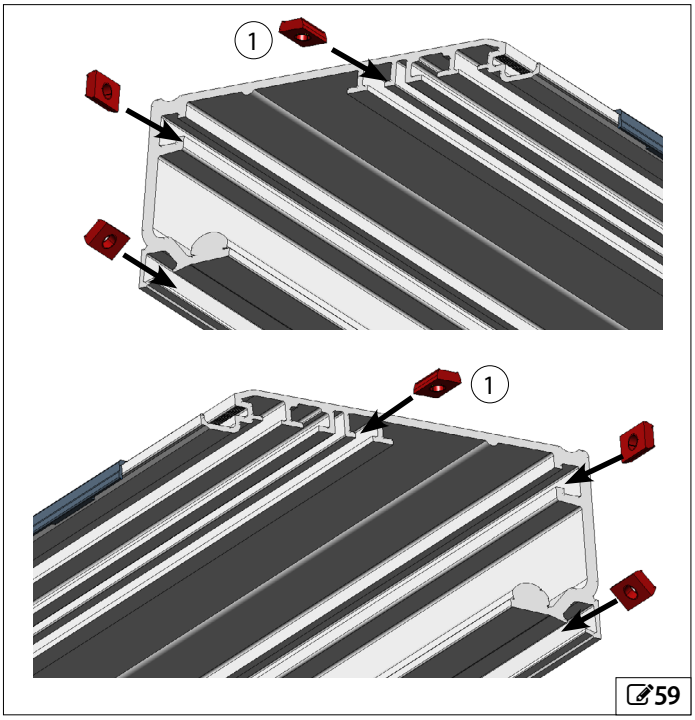
11.5 MOUNTING THE SIDE PROFILES

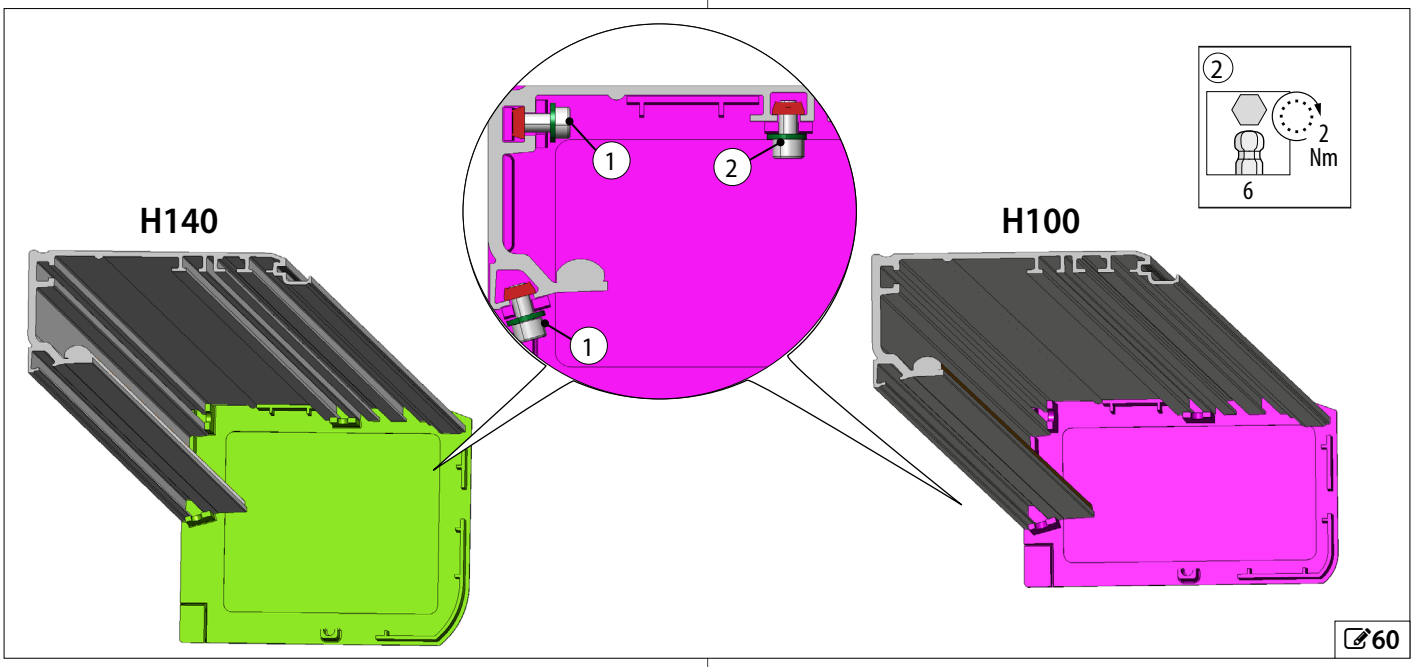
The side profiles enable the casing to remain closed.

If there are no side profiles, cover mounting brackets should be used.

1. Place 6 plates on the support profile (for profiles longer than 3m) **59-1**.
2. Mount the side profiles for H100 or H140 casings on the ends of the support profile.
3. Fasten each side profile using the 3 screws provided **60-2**.

Use at least one central bracket **61-2** for profiles longer than 3 m.



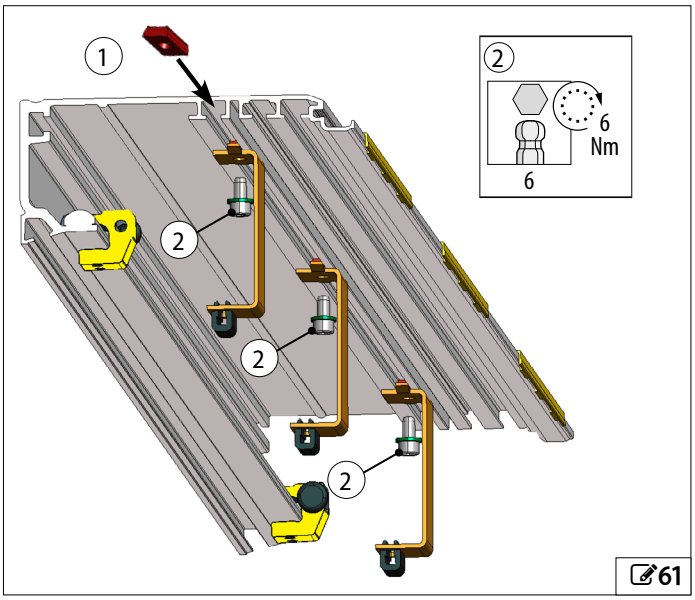


11.6 INSTALLING THE CASING BRACKETS

The brackets enable the casing to be closed if side profiles are not used.

Brackets are available for H100 or H140 covers.
It is recommended to use a central bracket for profiles longer than 3 m.

1. Place 2 plates **61-1** on the support profile (for profiles longer than 3 m, a third plate should be added).
2. Mount the brackets and fasten them using the screws provided **61-2**.



11.7 FITTING THE COVER

On the profile there must be:
- the safety cables ✎62-5
- the spacers ✎64-1
- the side profiles ✎63-7 or the cover mounting brackets ✎62-8

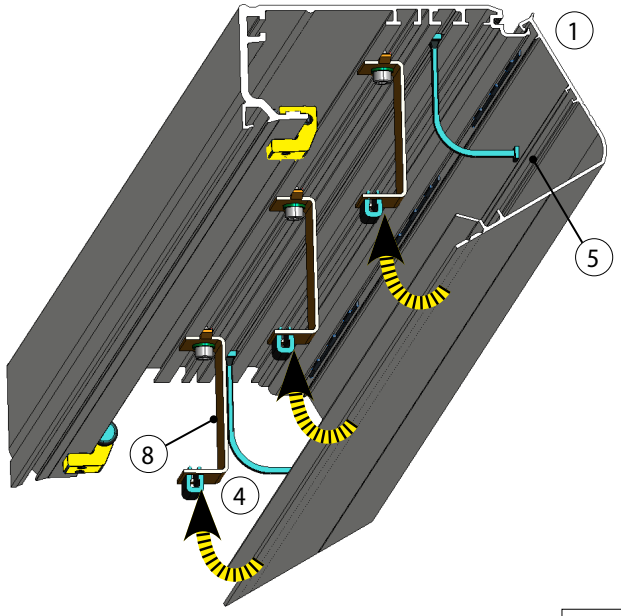
1. Place the cover on the profile ✎62 or ✎63.
2. Hold the cover in the open position ✎64-2, 3 (lift it and then push it into the profile).
3. Fasten the safety cables to the cover ✎65-5 and close the cover.

The safety cables must be correctly installed to protect from the risk of accidental casing fall.

Push the cover slightly in order to insert the blocks into the brackets or side profiles ✎62-4 or ✎63-4.

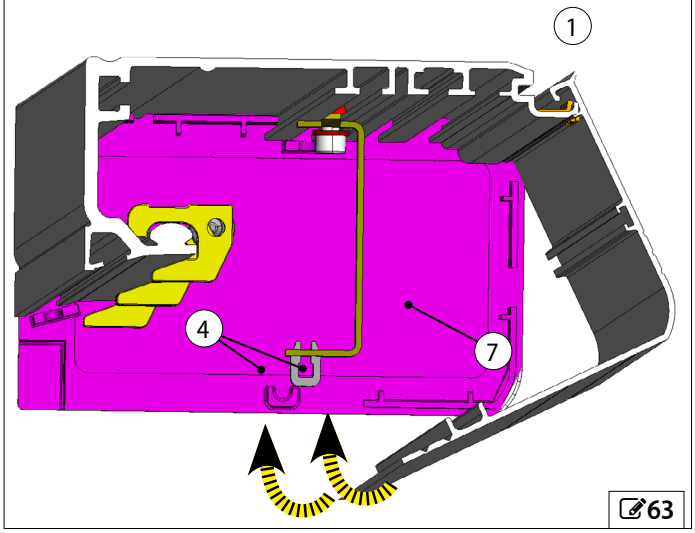
The markings on the casing allow it to be adapted to varying leaf thickness. The breaking points ✎65-6 allow the profile section in excess to be removed.

Installing the cover/casing mounting brackets.

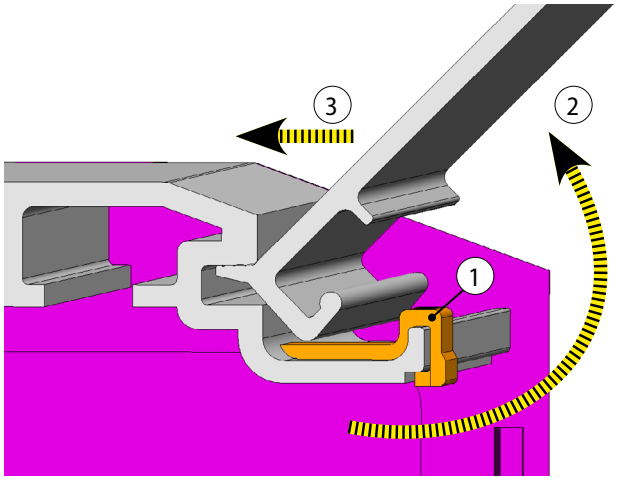


✎62

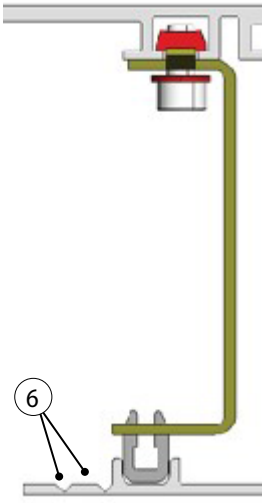
Installation with side profiles and central bracket.

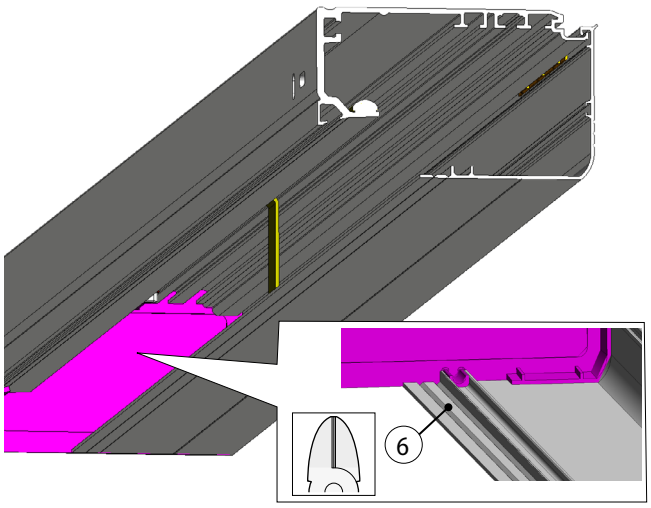


✎63



✎64





✎65

11.8 INSTALLING THE MOTOR BLOCK XB LOCK

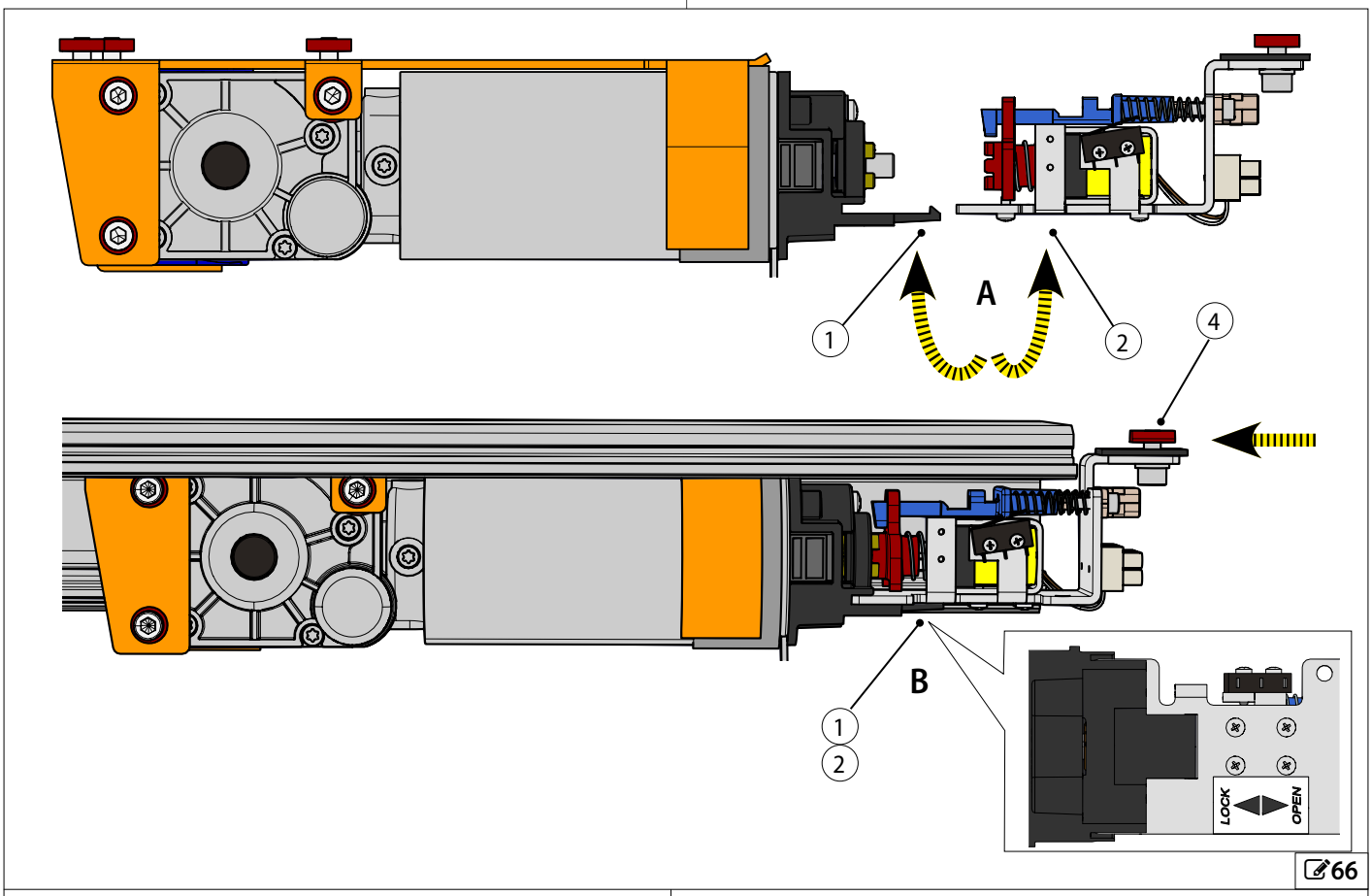
1. Install the motor block by engaging the retaining hook **1** with the slot **2** of the motor block ✎**66 A-B**.
2. Close the leaves.
3. Manually push the lever ✎**67-1** towards the motor shaft. Check correct coupling.
4. Move the motor block lever to check there is clearance between the motor shaft and the motor block coupling ✎**67-2**. If it is incorrect, adjust it as indicated below. ✎**68-3**.
5. After making sure that it is correct, tighten the screw ✎**66-4**

⚠ To remove the XB LOCK motor block:

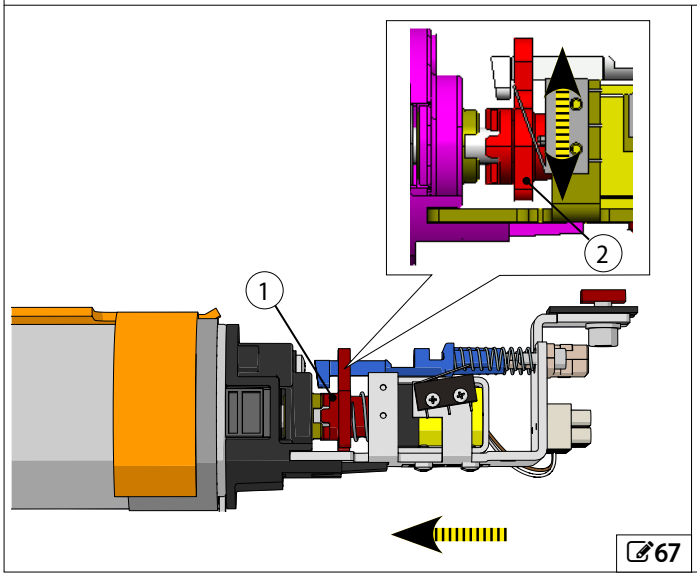
Release the motor retainer hook carefully so as not to break it; use a flat-head screwdriver to prise the retainer hook away from the motor block ✎**66-1**.

11.9 ADJUSTING THE XB LOCK MOTOR BLOCK

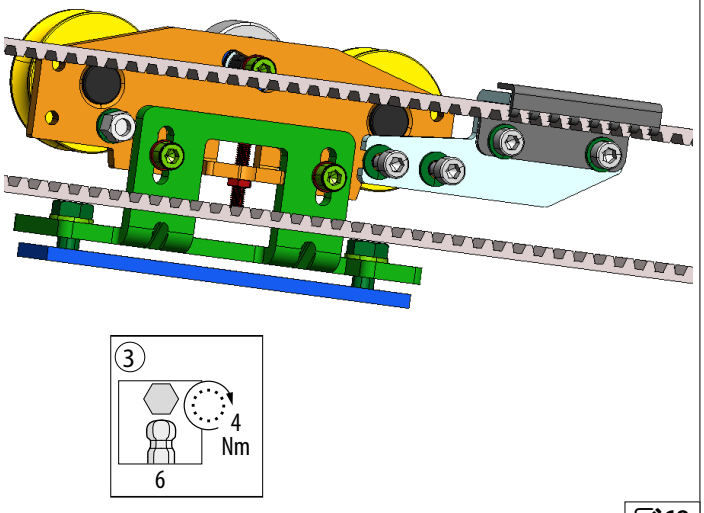
1. Loosen the two screws ✎**68-3** that connect the belt fitting to the carriage (on both carriages in the case of a double leaf).
2. Slightly move the belt fitting horizontally until there is clearance between the coupling of the motor shaft and the motor block by moving the motor block lever ✎**67-2**; re-tighten the previously loosened screws.



✎66



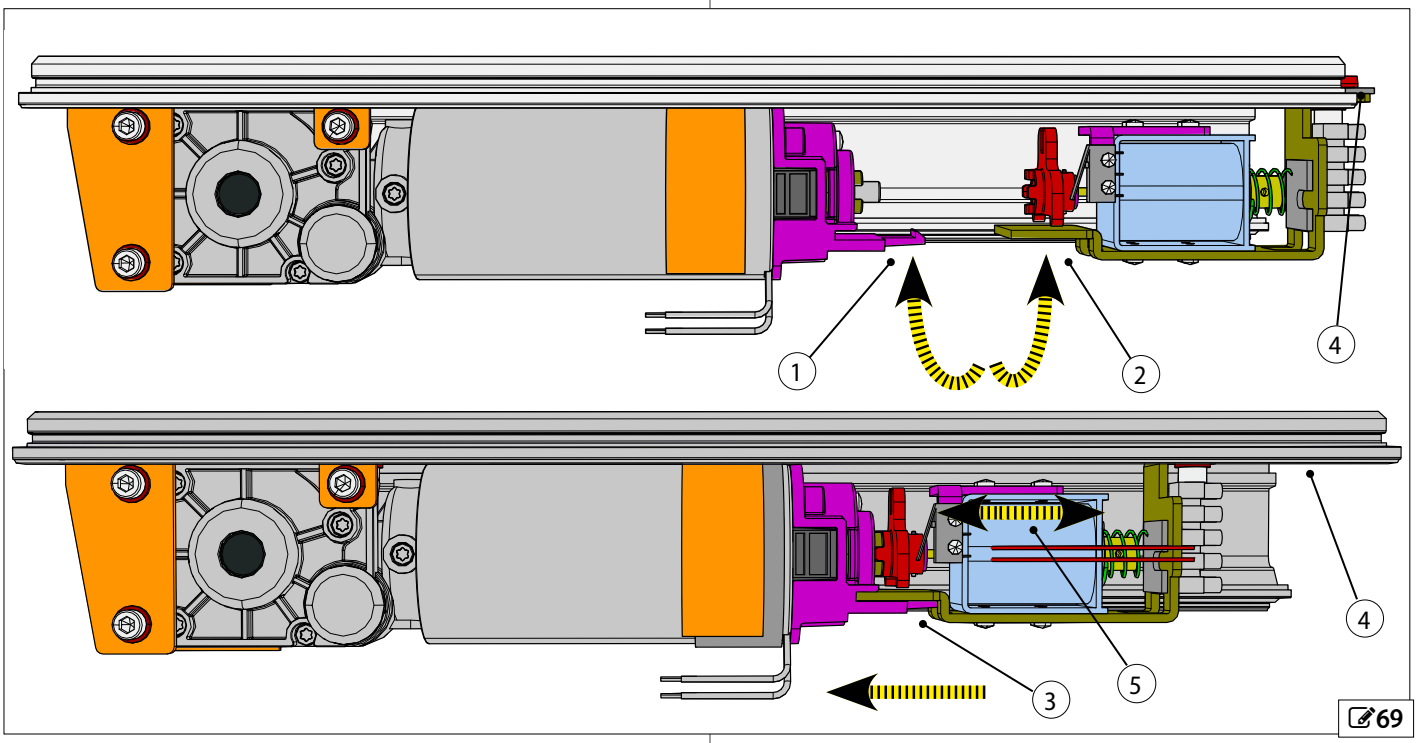
✎67



✎68

11.10 INSTALLING THE MOTOR BLOCK XM LOCK

1. Install the motor block by engaging the retaining hook **1** with the slot **2** of the motor block ✎**69**.
2. Check that the motor block is properly engaged ✎**69**-**3**.
3. Adjust the monitoring micro switch support and check the switching of the micro switch contacts ✎**69**-**5**
4. After making sure that it is correct, tighten screw ✎**69**-**4**.

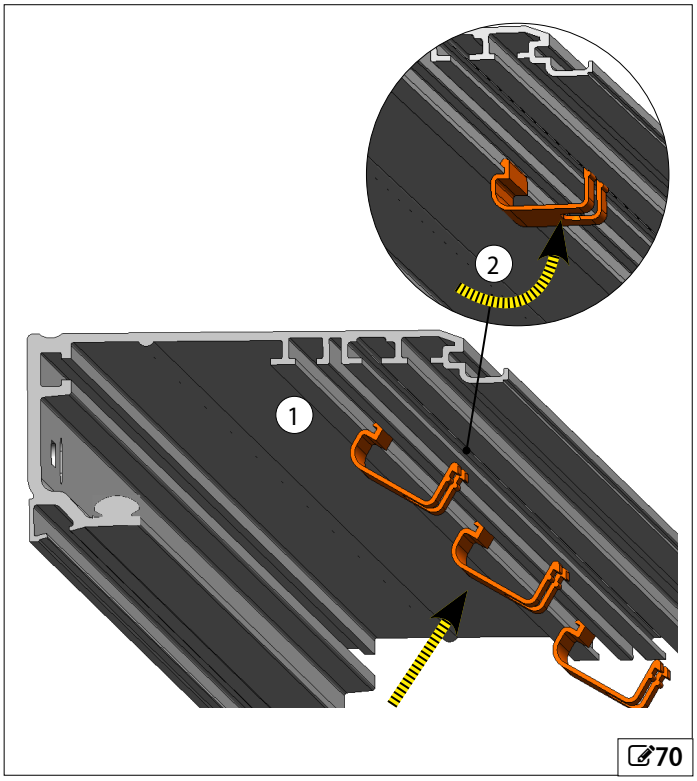


✎**69**

11.11 MOUNTING THE CABLE GLAND GUIDES

⚠ The guides prevent interference between cables and moving parts.

Install the electric cable guides inside the support profile ✎**70**-**1** and **2**).



✎**70**

12. 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 ⊞ **7**.

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.

All maintenance operations must exclusively be performed by technical-professional personnel.

Only the installer/maintenance technician is authorised to open the casing to access the automation housing.

12.1 CALCULATION ESTIMATE OF CYCLES PERFORMED

If there is a E2SL board fault and the cycle counter data is lost with error code 53, the number of cycles performed since the last service should be estimated.

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)

The installer must take on responsibility for indicating parameters R1, R2 and R3

Calculate:

R4 = R1 * R2 *3600

Calculate the ESTIMATED NUMBER OF CYCLES:

R4 / R3

Afterwards, from the SDK EVO, in the Cycle counter menu (5), Maintenance section, enter the calculated number of cycles.

⊞ **7** Maintenance programme and periodic replacements

SCHEDULED MAINTENANCE

OPERATION		
Check automation fastening to the wall	check the support profile is solidly secured to the wall	-
	in case of installation with self-supporting Head Section:	
	check screws securing the support profile to the self-supporting profile and the screws of side wall fixings	**15** **26**
Check the fastening of the Motor and return Pulley	check screws securing the motors on the support profile	**18**
Check on carriages	check screws securing to the leaf	**29**
	check and adjust the counter wheels of carriages and leaf depth and height screws	**31**
Check mechanical stops	check position of mechanical stops and fixing screws	**40**
Belt tensioning check	check belt tensioning	**38**
Cleaning	clean: Sliding Guide; Lower Guide Shoe; Carriages	**49**
Functional system check	perform required checks and procedures to ensure integrity of the load bearing structure and leaf frames	**12**
	perform functional checks	**49**

PERIODIC REPLACEMENTS

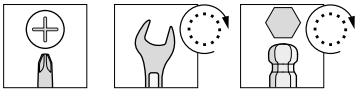
PART/COMPONENT	FREQUENCY		Replacements
	Operation cycles	Time (years)	Recommended / Mandatory
Motor	1 000 000	--	Recommended
DM Motor	1 000 000	--	Recommended
Plastic spacers - Motor	2 000 000	--	Recommended
Return pulley	1 000 000	--	Recommended
Lower guide shoe	2 000 000	--	**Mandatory**
Carriages	2 000 000	--	**Mandatory**
DM Carriage Wheels	2 000 000	--	**Mandatory**
Belt	1 000 000	5	**Mandatory**
Limit switch rubbers	2 000 000	5	**Mandatory**
Safety cables	--	5	**Mandatory**
Emergency battery	--	1	Recommended

12.2 MAINTENANCE TECHNICIAN SAFETY

RISKS

PERSONAL PROTECTIVE EQUIPMENT

TOOLS REQUIRED



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

The installer/maintenance technician is bound to comply with the safety instructions and recommendations provided in this manual.

Signal maintenance work in progress and prevent access to the area.

Do not leave the work site unattended.

The work area must be kept tidy and clear upon completing maintenance.

Do not proceed with modifications or repairs of any motorisation component.

The repairs must exclusively be performed by an Authorised Repair Centre.

The warranty shall be forfeited in the event of tampering with components.

Only use original FAAC spare parts.

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

12.3 REPLACEMENTS

Per 2 million cycles

1. Remove the belt after loosening it from the leaf fittings.
2. Remove the motor from its support after removing the screws ✎**71**-**1**-**2**-**3**.
3. Loosen the screws ✎**72**-**1** of each carriage and lower the leaves to the floor using the screw **2**.
4. Disconnect the leaves from the carriages by removing the screws ✎**72**-**1**.
5. Temporarily store the leaves away, using all precautions to prevent risks of fall.
6. Loosen the screw ✎**72**-**3** and lower the counter wheel in order to remove each carriage.
7. Install the new wheels for the DM carriages **34.**
8. Remove the mechanical stops.
9. Remove the lower guide shoe.
10. Install the new shoe **28**.
11. Install the vibration damper rubbers onto the support.
12. Install the new motor on its support.
13. Tighten the screws ✎**71**-**1**-**2**-**3**.
14. Install the new mechanical stops **16**.
15. Install the new carriages onto the leaves **29**.
16. Install and adjust the leaves **29** **31**.
17. Install and adjust the new belt **36** **38**.
18. Adjust the new mechanical stops **40**.

For 1 million cycles

Perform steps 1, 2, 11, 12, 13 and 18 of the sequence for 2 million cycles.

Belt replacement

Only perform steps 1 and 9 of the sequence for 2 million cycles.

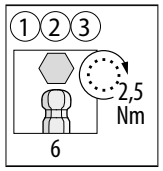
Replacement of mechanical stops

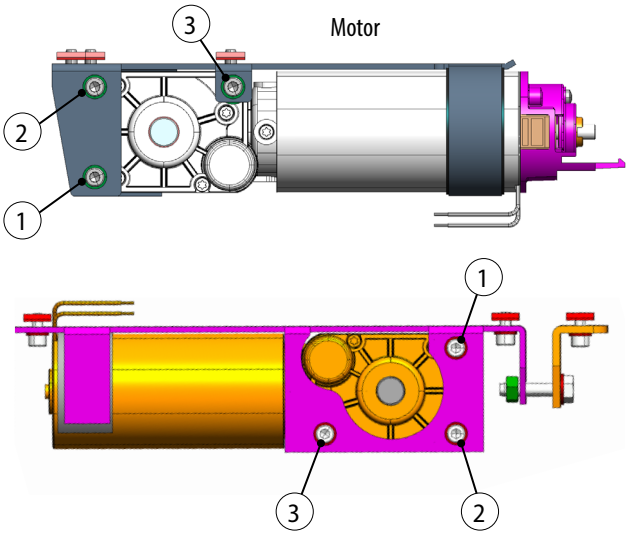
Only perform steps 7 and 19 of the sequence for 2 million cycles.

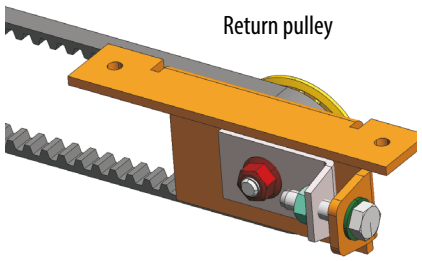
Replacement of safety cables

1. Remove the safety cables from the casing.
2. Install the new cables (§ relative sections).

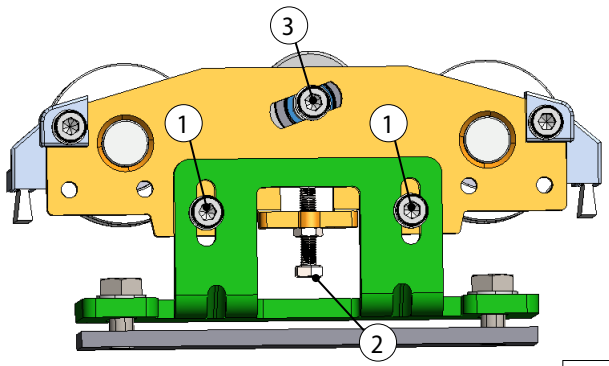
Follow the tightening sequence **1**-**2**-**3**.







✎**71**



✎**72**

Emergency battery replacement

Before proceeding, disconnect mains power supply.

1. Disconnect the battery from the E2SL board.
2. Loosen the 2 screws with washer ✎**73**-**1** and remove the battery.
3. Install the new battery ✎**73**-**1**.
4. Connect the battery to the E2SL board.

Electronic board replacement

Before proceeding, disconnect the mains power supply and disconnect the emergency battery.

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 all connections.
2. Remove the screw ✎**74**-**1** and the screw with washer ✎**74**-**2**.
3. Remove the board from the support.
4. Insert the new board in the seats ✎**74**-**3**.
5. Secure using the screw **1** and with the screw **2** with washer **4**.

The washer ✎**74**-**4** ensures that the board is earthed.

6. Restore all connections.
7. Program the new board.

If programming files that were previously saved to a USB storage device are available, upload them to (update) the board.

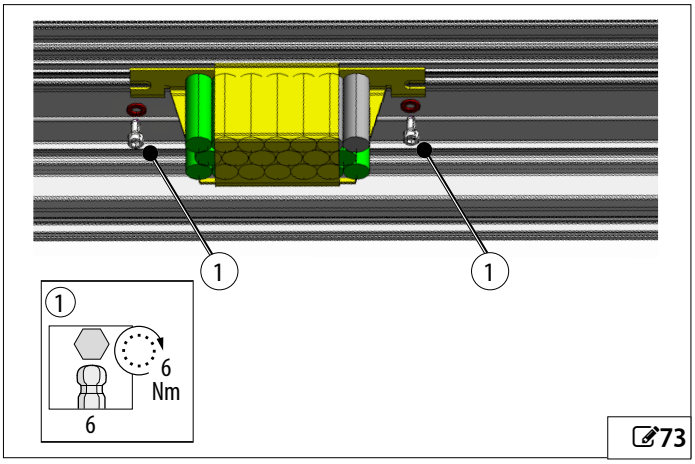
8. Carry out the SETUP procedure.

Replacing the fuses

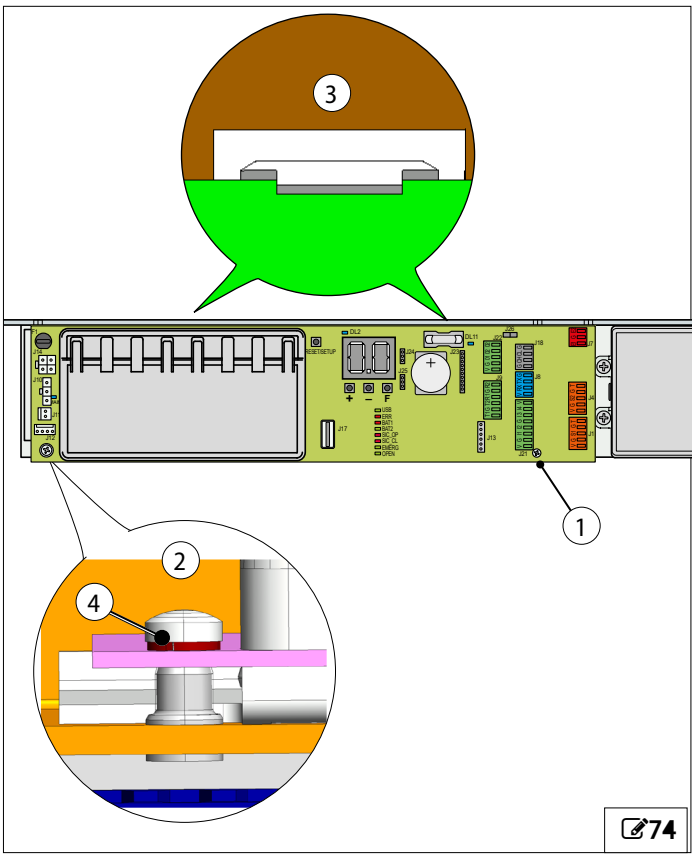
Before proceeding, disconnect the mains power supply and disconnect the emergency battery.

1. Remove the fuse F1 by pressing and turning anti-clockwise. Remove fuses F2 and F3 by gently using a screwdriver as a lever.
2. Assemble the new fuse.

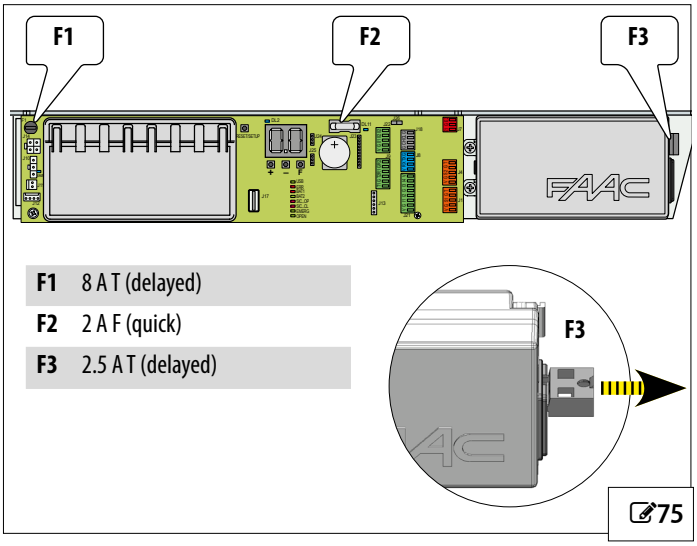
Only use the fuses indicated ✎**75**.



✎**73**



✎**74**



F1	8 A T (delayed)
F2	2 A F (quick)
F3	2.5 A T (delayed)

✎**75**

12.4 CLEANING

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

Before starting to clean, wait for the components subject to overheating to cool down.

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.

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.

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 basic solutions or ethyl alcohol.

12.5 FUNCTIONAL CHECKS

Connect power supply and emergency battery only after tidying up the area.

In case of failures or malfunctions, please refer to the E2SL 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
- approaching the opening and closing stops without impact
- regular operation of motor block on Motor_1 (if present)
- 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.

13. WASTE DISPOSAL

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

WARNING

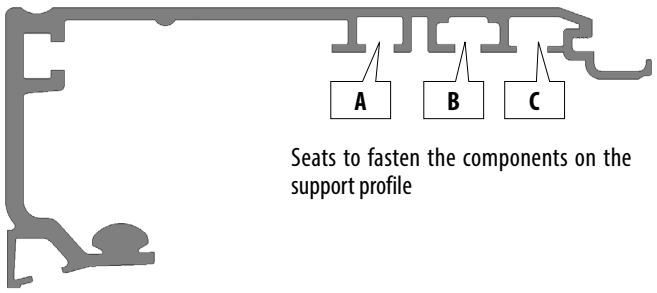
The batteries and electronic components must not be disposed of with household waste but delivered to authorised disposal and recycling centres.

1 Automation weights A1400 AIR

Single leaf			
Vp [mm]	Lt [mm]	Support profile weight [kg - approximate values]	TOTAL weight [kg]
700	1500	9	21
800	1700	10	22
900	1900	12	23
1000	2100	13	24
1100	2300	14	25
1200	2500	15	26
1300	2700	16	27
1400	2900	17	29
1500	3100	19	30
1600	3300	20	31
1700	3500	21	32
1800	3700	22	33
1900	3900	23	34
2000	4100	24	35
2100	4300	26	37
2200	4500	27	38
2300	4700	28	39
2400	4900	29	40
2500	5100	30	41
2600	5300	31	42
2700	5500	32	43
2800	5700	34	45
2900	5900	35	46
3000	6100	36	47

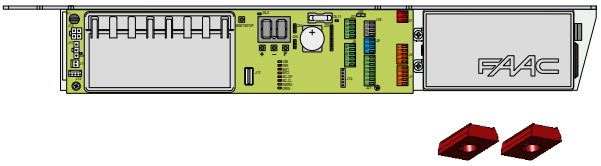
Double leaf			
Vp [mm]	Lt [mm]	Support profile weight [kg - approximate values]	TOTAL weight [kg]
800	1700	11	24
900	1900	12	25
1000	2100	13	27
1100	2300	14	28
1200	2500	15	29
1300	2700	16	30
1400	2900	18	31
1500	3100	19	32
1600	3300	20	33
1700	3500	21	34
1800	3700	22	36
1900	3900	23	37
2000	4100	24	38
2100	4300	26	39
2200	4500	27	40
2300	4700	28	41
2400	4900	29	42
2500	5100	30	44
2600	5300	31	45
2700	5500	32	46
2800	5700	34	47
2900	5900	35	48
3000	6100	36	49

2 Position of components on the A1400 AIR head section

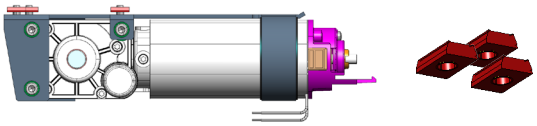


Seats to fasten the components on the support profile

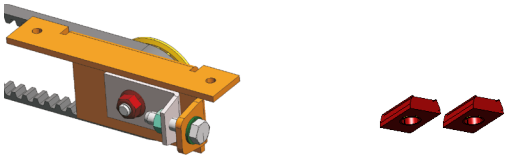
Electronic module (B)



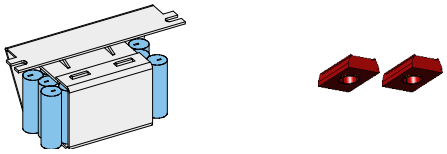
Motor (A-B)



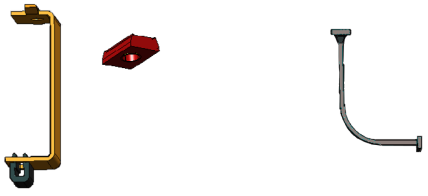
Return pulley (A)



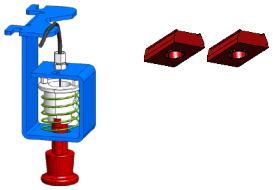
Emergency battery (A)



Cover mounting brackets (A) - Safety cables (B)



Internal release (optional component) (A)

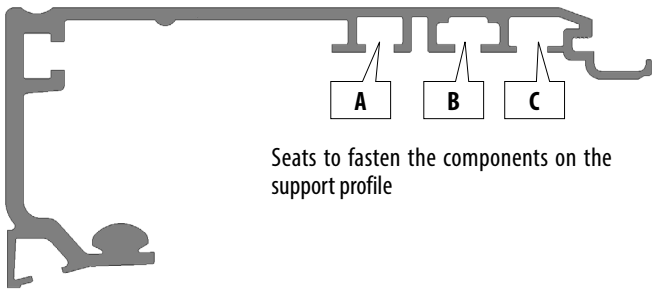


3 Automation weights A1400 AIR DM

Single leaf Vp [mm]	Lt [mm]	Support profile weight [kg - approximate values]	TOTAL weight [kg]
800	1700	9	24
900	1900	10	25
1000	2100	12	26
1100	2300	13	27
1200	2500	14	28
1300	2700	15	29
1400	2900	16	30
1500	3100	17	32
1600	3300	19	33
1700	3500	20	34
1800	3700	21	35
1900	3900	22	36
2000	4100	23	37
2100	4300	24	38
2200	4500	26	40
2300	4700	27	41
2400	4900	28	42
2500	5100	29	43
2600	5300	30	44
2700	5500	31	45
2800	5700	32	46
2900	5900	34	48
3000	6100	35	49

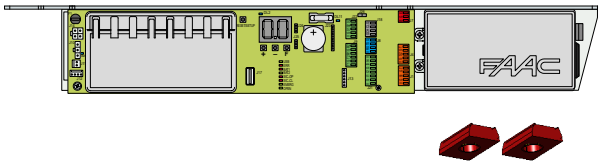
Double leaf Vp [mm]	Lt [mm]	Support profile weight [kg - approximate values]	TOTAL weight [kg]
900	1900	11	27
1000	2100	12	28
1100	2300	13	30
1200	2500	14	31
1300	2700	15	32
1400	2900	16	33
1500	3100	18	34
1600	3300	19	35
1700	3500	20	36
1800	3700	21	37
1900	3900	22	39
2000	4100	23	40
2100	4300	24	41
2200	4500	26	42
2300	4700	27	43
2400	4900	28	44
2500	5100	29	45
2600	5300	30	47
2700	5500	31	48
2800	5700	32	49
2900	5900	34	50
3000	6100	35	51

4 Position of components on the A1400 AIR DM head section

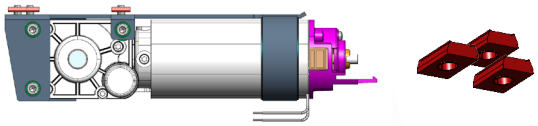


Seats to fasten the components on the support profile

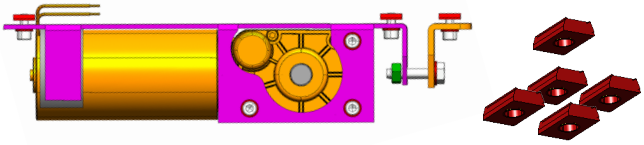
Electronic module (B)



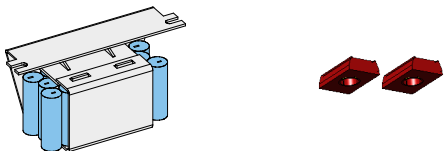
Motor (A-B)



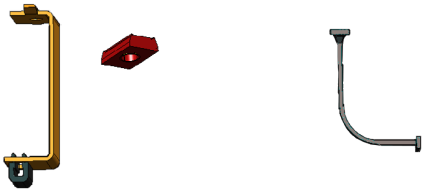
2nd Motor (A)



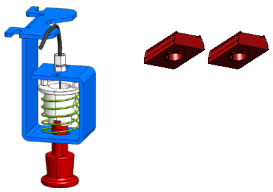
Emergency battery (A)



Cover mounting brackets (A) - Safety cables B)



Internal release (optional component) (A)



5 USER'S GUIDE - A1400 AIR/A1400 AIR DM

RECOMMENDATIONS FOR SAFETY OF THE ESCAPE ROUTES

The automation A1400 AIR, created for escape routes, if correctly installed, maintained and used, guarantees a high level of safety.

⚠ Selection of NIGHT-TIME or MANUAL mode will lose operation of door A1400 AIR for the escape routes. The operator must verify that there is no one inside the rooms before activating these modes.

GENERAL SAFETY RECOMMENDATIONS

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

⚠
- 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 use the system in case of malfunctioning. In the event of malfunctioning, the operator must abstain from any attempt to repair or intervene directly. He/she must request intervention by the installer/maintenance technician
- make sure the system's maintenance is carried out according to the instructions provided in this manual
- must be in good psycho-physical conditions, aware of and responsible about the hazards that may be engendered when using a machine.
- the required level of ambient lighting must be equal to at least 200 luxstore the system Register filled in at the end of every maintenance operation by the installer/maintenance technician

Routine and planned maintenance

⚠
- To maintain safety conditions and operating efficiency and reduce faults and disservice, ROUTINE MAINTENANCE and PERIODIC REPLACEMENTS set out in manual A1400 AIR must be carried out.
- All maintenance operations must exclusively be performed by technical-professional personnel.
- Only the installer/maintenance technician is authorised to open the casing to access the automation housing.
- 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.

USE

Systems FAAC series A1400 AIR make it possible to operate automatically, manage and control operation of sliding one- or two-leaf doors, with linear horizontal motion.

The automations of series A1400 AIR are designed to install automated entry doors exclusively for pedestrian traffic.

They are suitable for installing emergency exits compliant with standard EN 16005:2012.

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 disclaims all liability deriving from misuse or use other than that for which the automation is intended.

Unauthorised use:

- use the automation for uses other than THE INTENDED USE
- use the automation with mobile and fixed guards tampered with or removed.

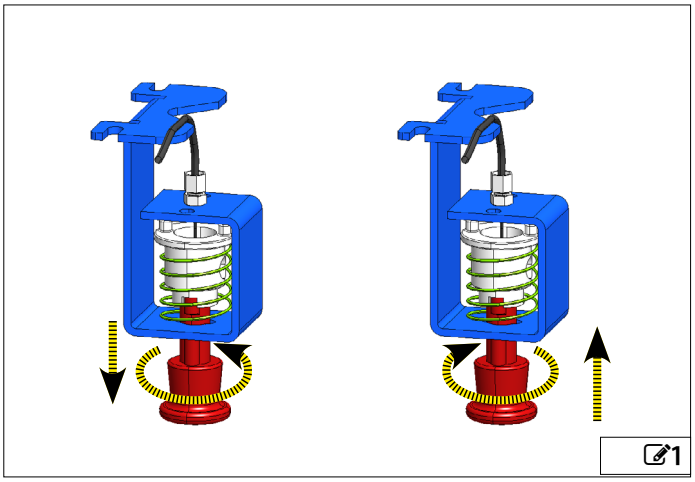
MANUAL OPERATION

Release manoeuvre

If it is necessary to manually actuate the internal release to manually open the door, proceed as follows:

To open the door pull the red knob downwards and turn it anti-clockwise until it locks on the bracket (✎ 1).

To close the door pull the red knob downwards to release it and turn it clockwise until it locks on the bracket (✎ 1).



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