Installation manual

Automated operated ALU-Slide VDS ECO
Automated operated ALU-Slide AVANT

V25.02

The new Generation of Aluminium sliding gates

ALUCONNECT

Manual for fencing installer

Dear Customer,

We would like to thank you for your trust and for choosing this sliding gate. This manual contains all required information to quickly ensure you become familiar with this product.

This manual is meant for the installer and ensures that the installer can install the sliding gate correctly. The table of contents will assist you in finding the information that you need in this manual.

The sliding gate must be installed by a certified and professional installer, who uses an installation diagram and works in accordance with the applicable legislation and regulations.

We recommend that you carefully study the information in this manual before working with the product. Ensure that you act in accordance with the instructions contained in this manual when installing the sliding gate.

A programming and user manual is available for this sliding gate. The programming manual provides detailed information for the installer and the user manual provides information for the user.

You can request these manuals from the installer of your sliding gate.

For more informaton or to order manuals, contact:

ALUCONNECT

Disclaimer

The sliding gate may only be used for closing passages dynamically. Aluconnect cannot be held liable for any damage caused by improper, incorrect or unwise use. Read and fully understand this manual.
If you deviate from the described actions in the installation manual, any guarantees or liability of the manufacturer will be null and void. The manufacturer cannot accept any liability for consequential damages.

There are also requirements for the installation of the gate. The installation instructions must always be followed, and installation must be carried out by a qualified and skilled installer in compliance with applicable laws and regulations. Safety must be ensured at all times so that users and third parties can use the sliding gate safely. The fence installer is responsible for proper installation. If there are any questions or uncertainties regarding installation, the installer may contact Aluconnect.

The sliding gate is supplied in accordance with EU directives and regulations:
305/2011 EU Construction Product Regulation (CPR)

Where the sliding gates are produced in accordance with the EN 13241 standard and the related supporting EN 12604, EN12605 and EN12635 standards.
A Declaration of Performance (DoP) and a CE mark are drawn up for the sliding gates.
The combined CE Declaration of Performance can be found at the back of the user manual.

The CE mark can be found on the nameplate. This figure is added to the guidepost and may never be removed.

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ALUCONNECT

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ALUCONNECT

1. Introduction

1.1. Manufacturer

Aluconnect B.V.
Kokerbijl 9
5443 PV Haps
Phone: +31 (0)88 33 43 00
E-mail: info@aluconnect.nl
Website: www.aluconnect.nl

1.2. Service and maintenance

- For maintenance or technical questions, contact your installer/supplier.
- You can also contact the manufacturer. You will then be put into contact with a Aluconnect partner in your area.

1.3. Definition of the competences of persons

User:
The user is the person who uses the sliding gate. The user must be familiar with all safety aspects specified in this manual. The user may not perform installation work on the gate unless the user has been expressly specified and named.

Fencing installer:
The installer is a fencing specialist who is qualified to perform technical operations on the gate.

1.4. Contemplated use and application

The operation of the gate is very simple. However, the user manual must be read with due care and attention before use is made of the gate.
The installer of the installation company must instruct the user with regard to the use of the sliding gate.

The sliding gate must always be installed horizontally and may only be used for controlled access to a site, building or location.

All installation work must be performed by professional and certified personnel. The installation company is responsible for the deployment of professional and certified personnel.

1.5. Conformity and Declaration of Conformity

The sliding gate is supplied in accordance with the following EU directives and regulations:
EG-Construction Products Regulation 89/106/EWG,
EG-Machinery Directive 2006/42/EG
EG-Low Voltage Directive 2006/95/EG
EG-Directive on Electromagnetic Compatibility 2004/108/EG

In particular, the following harmonized standards are applied:

EN 13241-1	Industrial and commercial garage doors and gates - Product standard, Products without fire or smoke protection properties
EN 12100	Safety of machinery - Basic concepts, General design priciples
EN 12445	Operating safety of powered doors, Test methods
EN 12453	Operating safety of powered doors, Requirements
EN12978	Sefety devices for automatically operating doors and gates
EN 414	Safety of machinery - Rules for the drafting and presentation of safgety standards
EN ISO 13849-1	Safety of machinery - Components of control systems with a safety function
EN 1037	Safety of machinery - Prevention of unintended start-up
EN 12100	Safety of machinery - Principles for risk assessment
EN 60204-1	Safety of machinery - Electrical equipment of machines

A Declaration of Performance (DoP), a Declaration of Conformity (DoC) and a CE mark are drawn up for the sliding gates.
The Declaration of Conformity and combined CE Declaration of Conformity/Declaration of Performance can be found at the back of this user manual.

The CE mark can be found on the nameplate. This nameplate is placed to the drive unit (where the motor is located) and may never be removed.

1.6. Delivery

The sliding gate is installed, connected, adjusted and programmed by a fencing installer.
The installer also connect any options and accessories.

The operation of the gate including the relevant options and accessories must be gone through and explained to the user upon delivery.

You can add additional options and accessories after delivery.
Contact your supplier for more information.

2. Safety aspects

2.1. Symbols

Warning

Instructions that include this symbol warn in relation to the risk of damage to the machine or breakdowns if the instructions are not closely followed.

Entrapment hazard

Instructions that include this symbol warn in relation to physical injury if the instructions are not closely followed.

Electrocution danger

Instructions that include this symbol warn in relation to the danger due to electricity if the instructions are not closely followed.

2.2. General safety

IMPORTANT

- All installation work must be performed by professional and certified personnel. The installation company is responsible for the deployment of professional and certified personnel.
- The sliding gate may only be commissioned after the sliding gate has been completely installed and tested.
- The installation of the sliding gate is very easy. We do, however, recommend that you carefully read the installation instructions before you start installing. This will ensure that installation errors are prevented. The manufacturer cannot be held liable for damage to the drive or damage as a result of incorrect installation.
- The sliding gate must always be installed horizontally and may only be used for closing entrances dynamically.
- The sliding gate may not be operated by children or people with an impairment. Adults must supervise to ensure that children do not play with or within the range of the sliding gate. Parents/carers are responsible for their children.
- Ensure that the instructions specified in the installation manual are followed and observed. Any other type of use may cause unpredictable hazards and is therefore prohibited.
- Use the correct personal protective equipment such as work gloves, safety shoes (at least class S3), safety goggles, hearing protection, a dust mask and protective overalls.
- Only use approved lifting supports for moving heavy loads. Always perform lifting activities with more than one person even when using lifting supports. The maximum permitted weight for lifting is 25 kg per person.
- Cordon off the work area before and during installation to ensure no unauthorised people have access. Safeguard public safety depending on the situation. Pay, for example, near schools additional attention to the safety of children.
- When the gate is moving, a distance must be maintained from the gate. This is indicated by the warning symbol “danger” added to the portals. This warning pictograms must be checked regularly by the operator. If one or more pictograms are (no longer) displayed on the gate, they must be added again to safeguard safety. They can be obtained from Aluconnect.

- Only go through the passage when the sliding gate has been completely opened.
- The gate wing may not be increased in weight or the surface area of the gate infill may not be increased. If required, contact your gate supplier.
- It is mandatory to install a protection to prevent the gate wing to run out of her guiding systems. For this purpose, the sliding gates are equipped with a safety bolt on both sides of the bottom profile.
- It is mandatory to be able to lock a sliding gate at all times to prevent unintentional movement. Manual operated sliding gates are standard supplied with a wind security handle. .
  For automated sliding gates, the installer must inform the user that an unlocked sliding gate must be secured against unintentional movement. Several options are available for this and are available from your supplier of the sliding gate.
- PEOPLE MAY NOT HITCH A LIFT ON THE SLIDING GATE.
- Only operate an unlocked and manually operated sliding gate with the handle. Use the full handle to avoid the risk of entrapment.
- The drive may not be used on other gates or for other objectives than for the sliding gate specified in this manual.
- Ensure that the slide area is always free from obstruction.
- Train the user, issue the user manual to the user and test the correct operation of the sliding gate upon the delivery of the sliding gate.
- Keep waste separate. Obtain information in your region about the possibilities for a safe and correct disposal.

INSTALLATION

- Protect against direct sunlight and rain when installed outside.
- Only install on a level surface!
- The ambient temperature may not be lower than -20 °C and may not be higher than + 50 °C.
- Air humidity must be between 30 - 90% RH.
- Local electromagnetic fields must be screened off reliably.
- The internal temperature measurement has been designed for vertical installation where the cables are provided towards the bottom and that must be sealed using the supplied fastening to prevent moisture from penetrating.
- Ensure that the gate in the guide and the guide wheels or on the guide rail run smoothly before installing the drive. The sensitive safety device responds when the gate runs unevenly by stopping the travel and returning. If the gate does not run smoothly, contact your supplier.
- The gate must have an end stop in the opened and closed positions so that it cannot be slid out of the guide.
- The motor is self-locking and therefore the gate does not require a lock. In the unlocked position, the gate is not self-locking and a wind security handle must be installed on the sliding gate.
- 230 V cables and signal cables must be placed in separate cable sleeves to prevent faults and failures.
- Never connect 230 V mains power to the control inputs (terminals 9-36). Not complying with this will result in the immediate destruction of the control: no guarantee!
- Signal cables may not be longer than 30 m.
- For two sliding gates sliding toward each other, mount the ramp, which is mounted on the floor where the two sliding gates meet when in the closed position.

2.3. Warning on Entrapment hazard

ENTRAPMENT HAZERD

- The sliding gate may only be opened or closed under the supervision of and by people with sufficient experience and knowledge regarding the sliding gate.
- Only operate an unlocked and manually operated sliding gate with the handle. Use the full handle to avoid the risk of entrapment.
- An uncontrolled movement of the gate wing (for example, caused by wind) must be prevented both in an open and a closed condition. Manual operated sliding gates are standard supplied with a wind security handle and for unlocked automated sliding gates, there are wind security handles available. When the gate wing opens or closes in an uncontrolled manner, structural deformation of the gate can occur, which may represent a hazard for people and the surrounding area.
  An unlocked and manually operated sliding gate may never be opened or closed unsupervised!
- The vertical head bar on the gate wing has a safety edge that does not cover the entire height of the wing. Becoming trapped cannot be excluded here.
- The sliding gate may only be operated when the entire sliding gate is visible from the hold-to-run control.

2.4. Wind load regulations

WIND LOAD

The sliding and swing gates from Aluconnect are manufactured in accordance with the EN 13241-1 standard. The EN 12424 standard is observed with regard to the wind load.

- Wind class 2 is applied as wind load either 450 Pa.
  This means that the gate withstand wind speeds of up to 102 km/h in the closed position.

- For industrial sliding gates up to and including 8000 mm width, a wind load is answered to wind class 3 either 700 Pa.
  This means that the gate can withstand wind speeds of up to 133 km/h in the closed position.

Wind strength	Classification EN 12424	Dynamic pressure Pa= N/m²	Wind force Beaufort	Winds speed in m/s	Wind speed in km/h
Calm	Class 0	0	0	0 - 0,2	0
Strong gale	Class 1	300	9	20,8 - 24,4	75 - 88
Violent storm	Class 2	450	10	24,5 - 28,4	89 - 102
Hurricane	Class 3	700	12	32,7 - 36,9	118 - 133
Heavy hurricane	Class 4	1000	13	37,0 - 41,4	134 - 149

NOTE:

The gate may only be set in motion at maximum of 50% of the wind speed in the respective class
This applies to both manual and automated gates.

- For class 2, the gate may not move if the wind speed exceeds 51 km/h.
  A wind speed of 51 km/h matches wind forze 6 - 7 accordance with the Beaufort wind scale.

- For class 3, the gate may not move if the wind speed exceeds 66 km/h.
  A wind speed of 66 km/h matches wind force 8 accordance with the Beaufort wind scale.

(See table below).

Windforce	Dynamic pressure Pa= N/M²	Wind force Beaufort	Wind speed in m/s	Wind speed in km/h
Strong breeze	71,6 - 116,7	6	10,8 - 13,8	39 - 49
High wind	117,7 - 179,5	7	13,9 - 17,1	50 - 61
Stormy	181,3 - 262,4	8	17,2 - 20,7	62 - 74

2.5. Safety aspects linked to the machine

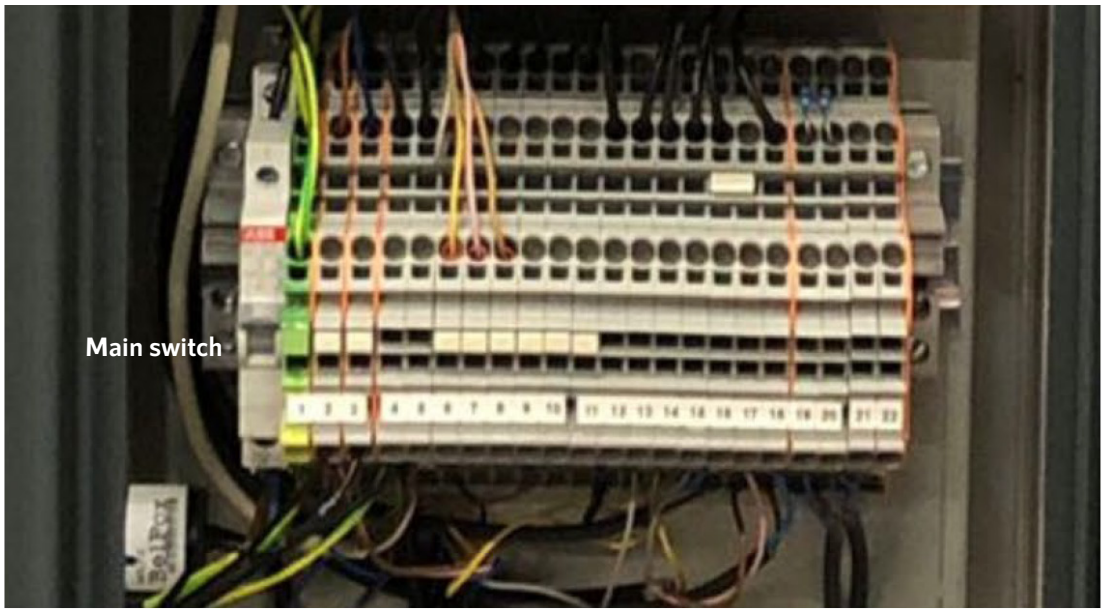
To offer safety to people near the gate, various safety facilities have been added. The most important safety facilities are what is commonly referred to as stopping safety edges that have been installed at several locations. These “rubber strips” can be found on the moving part of the gate and the guide portal on which the moving part is affixed. These safety edges will deactivate the gate and have the gate run back approximately 15 cm if there is a ‘entrapment hazard’.
If a vertical head bar safety edge of the gate wing is touched, the gate will run back completely.
The gate will again start to move when the operator has issued a new command.

IMPORTANT

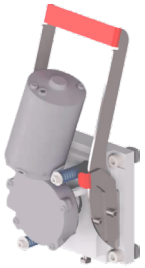
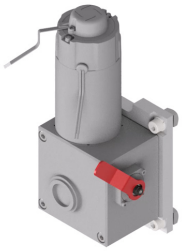
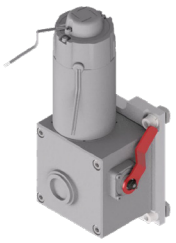
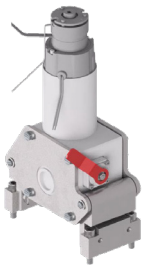
At least once a month, the safety edges must be tested to verify their correct operation and must be examined of visual damage to ensure safety can be guaranteed.
If one of these tests should not lead to the required result, you must immediatly contact your supplier to resolve the problem.

2.6. Disconnecting the automatic sliding gate

Before disconnecting the sliding gate, the electrical installation should FIRST be de-eneregized. This is done by turning the main switch, which is located to the left of the terminal strip. See picture below.



In the event of a power failure or malfunction of the automatic, sliding gate, the gate can be disengaged by moving the red handle at the top of the drive motor downwards, or by moving the red handle at the side of the gearbox upwards (depending on the drive). The gate leaf can then be operated manually. For theft protection purposes, the release is not accessible from the outside, but must be operated in the drive unit.

Drive	Available for		Locked	Unlocked
	ALU-Slide VDS ECO	ALU-Slide AVANT		
180T	✓	✓		
250T		✓		
320T	✓			
500T Speed	✓	✓		

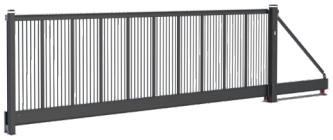
2.7. Locking

You must always be able to lock a manual sliding gate or an automatic sliding gate that is unlocked. For this, a wind security handle must be installed on the sliding gate.
Manual operated sliding gates are standard supplied with a wind security handle.
For automated sliding gates, the installer must inform the user that an unlocked sliding gate must be secured against unintentional movement. The user or the installer can provide the sliding gate with a locking system. This can be ordered optionally from the sliding gate supplier.

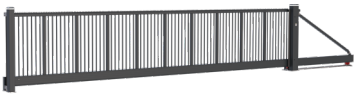
3. General

3.1. Models

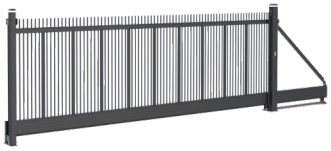
Below you can see the versions used in the automated sliding gates, all sliding gates can be made in both a single and 'sliding towards each other' versions:



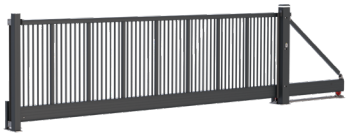
Industrial Vira
(30x30 mm)



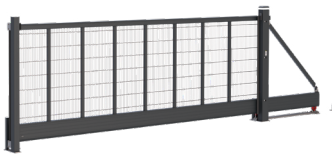
Industrial Punta
(ø30 mm with steel security strip)



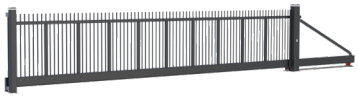
Industrial Rosa
(ø30 mm continious bars)



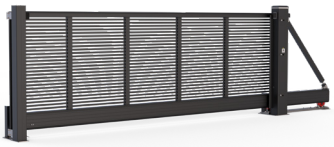
Industrial Nika
(ø30 mm smooth upperbeam)



Industrial Dura
(Double bar mat 868)



Industrial Kyra
(23x23 mm continous bars diagonal)



Design Levi 30H
(Horizontal infill 30x25 mm)

Design Levi 30V
(Vertical infill 30x25 mm)

Design Levi 80H
(Horizontal infill 80x25 mm)

Design Levi 80V
(Vertical infill 80x25 mm)

Design Lara 1XC
(3 mm aluminum plate)

Design Luna 100H
(Horizontal infill 100x25 mm)

Design Luna 100V
(Vertical infill 100x25 mm)

Design Luna 200H
(Horizontal infill 200x25 mm)

Design Luna 200V
(Vertical infill 200x25 mm)

Design Luka 100S
(Round shutters 100x35 mm)

Design Lucy 70S
(Angular shutters 70x20 mm)

3.2. Dimensions

3.2.1. Standard heights ALU-Slide VDS ECO

Design: 955, 1155, 1355, 1555, 1755, 1955 mm.
Industrial: 1000, 1250, 1500, 1800, 2000, 2500 mm.
Industrial Dura: 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400 mm.

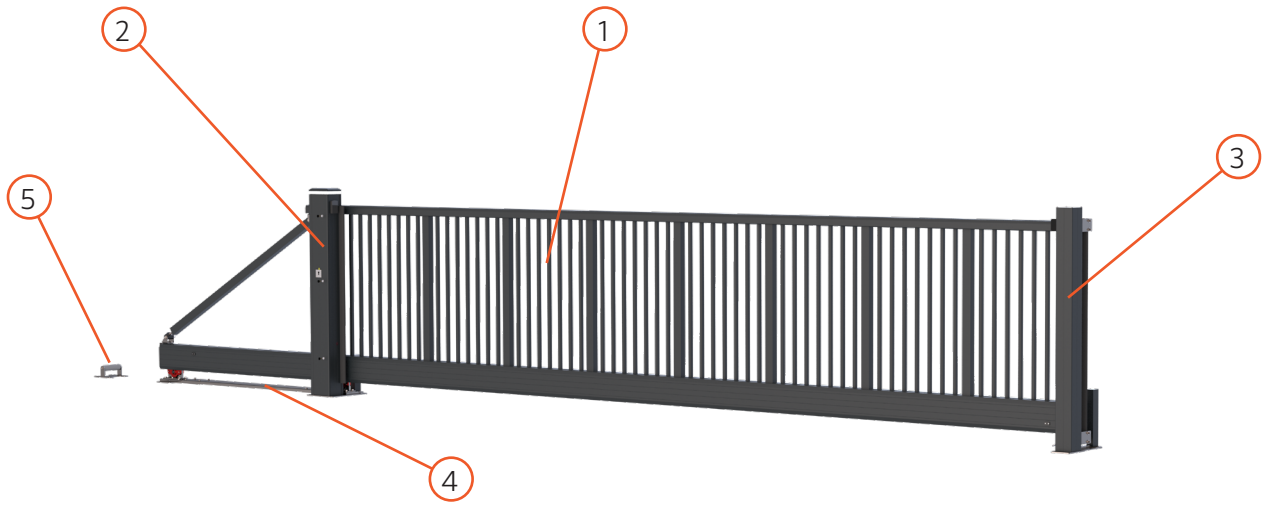
3.2.2. Standard heights ALU-Slide AVANT

Design: 1035, 1235, 1435, 1635, 1835, 2035 mm.
Industria: 1000, 1250, 1500, 1800, 2000, 2500 mm.
Industrial Dura: 1000, 1200, 1400, 1600, 1800, 2000, 2200, 2400 mm.

Passage Sliding gate Width dimension (mm) Between the posts	Length Wing Width dimension (mm) Wing	VDS ECO Industrial	VDS ECO Design	AVANT Industrial	AVANT Design
3000	4600	✓	✓	✓	✓
4000	5700	✓	✓	✓	✓
5000	6700	✓	✓	✓	✓
6000	8200	✓	✓	✓	✓
7000	9200	✓	✓	✓	✓
8000	10700	✓		✓	
9000	11700			✓	
10000	13200			✓	
11000	14200*			✓	
12000	15900*			✓	

* The wing is being delivered in 2 pieces and needs to be screwed together on site.

3.3. Explanation gate components



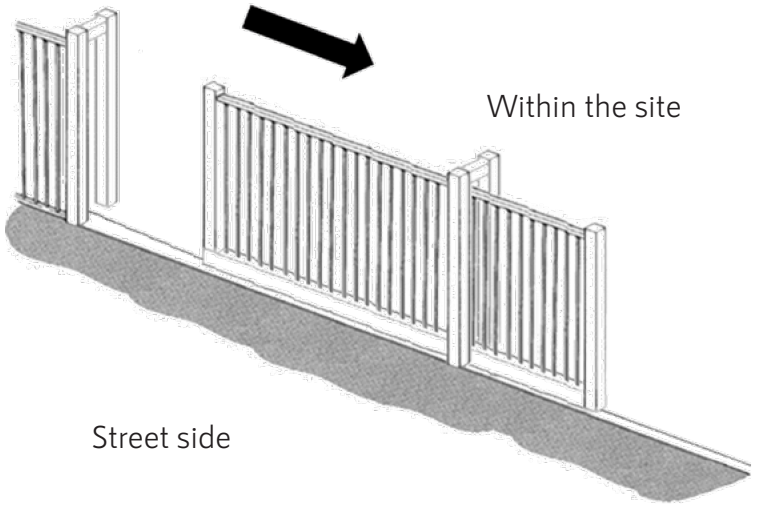
1	Gate wing	4	Tandem set
2	Drive post	5	Rear support roller
3	Slam post		

3.4. Sliding direction

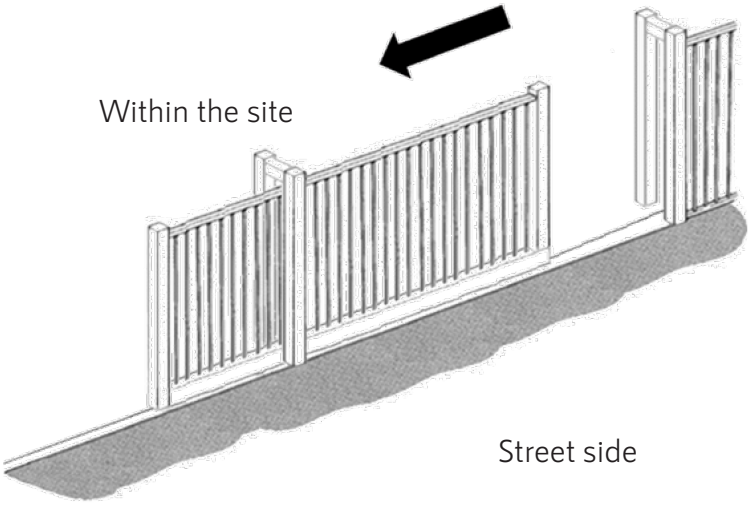
In practice, we refer to the sliding direction when opening when you are standing on the road side and looking at the sliding gate.
For example:

- DIN Right when viewed from the outside and opening to the right
- DIN Left when viewed from the outside and opening to the left

3.4.1. DIN Right



3.4.2. DIN Left



4. Gate description

4.1. Technical data gate

Sliding gate Width dimension (mm) between posts	Sliding gate Length (mm) Gate wing	Type	C-profile lower beam	Upper beam	Guide post	Slam post 150x150	Head beam profile 100x80	Vertical beam profilde 80x60
3000	4600	VDS ECO Design	180x160	124x65	1-legged	✓	✓	✓
		VDS ECO Industrial						
		AVANT Design	250x160	140x75				
		AVANT Industrial						
4000	5700	VDS ECO Design	180x160	124x65	1-legged	✓	✓	✓
		VDS ECO Industrial						
		AVANT Design	250x160	140x75				
		AVANT Industrial						
5000	6700	VDS ECO Design	180x160	124x65	1-legged	✓	✓	✓
		VDS ECO Industrial						
		AVANT Design	250x160	140x75				
		AVANT Industrial						
6000	8200	VDS ECO Design	180x160	124x65	1-legged	✓	✓	✓
		VDS ECO Industrial						
		AVANT Design	250x160	140x75				
		AVANT Industrial						
7000	9200	VDS ECO Design	180x160	124x65	1-legged	✓	✓	✓
		VDS ECO Industriell						
		AVANT Design	250x160	140x75				
		AVANT Industrial						
8000	10700	VDS ECO Industrial	180x160	124x65	1-legged	✓	✓	✓
		AVANT Industrial	250x160	140x75				
9000	11700	AVANT Industrial	250x160	140x75	1-legged	✓	✓	✓
10000	13200	AVANT Industrial	250x160	140x75	1-legged	✓	✓	✓
11000	14200	AVANT Industrial	250x160 Connected	140x75 Connected	2-legged	✓	✓	✓
12000	15900	AVANT Industrial	250x160 Connected	140x75 Connected	2-legged	✓	✓	✓

- For manually operated sliding gates ≤10000 mm wide, the dimensions of a 1-legged guide post is 150x150 mm and for a width >10000 mm, the size of a 2-legged guide post is 150x150/150x150 mm.
- For automated sliding gates ≤10000 mm wide, the dimensions of a 1-legged guide post is 250x180 mm and for a width >10000 mm, the size of a 2-legged guide post is 250x180/150x150 mm.

4.2. Technical data drive

The sliding gate can have different types of drives.

Available motors for ALU-Slide VDS ECO:

- 180T
- 320T
- 500T SPEED

Available motors for ALU-Slide AVANT:

- 180T
- 250T
- 500T SPEED (≤ 10000mm)

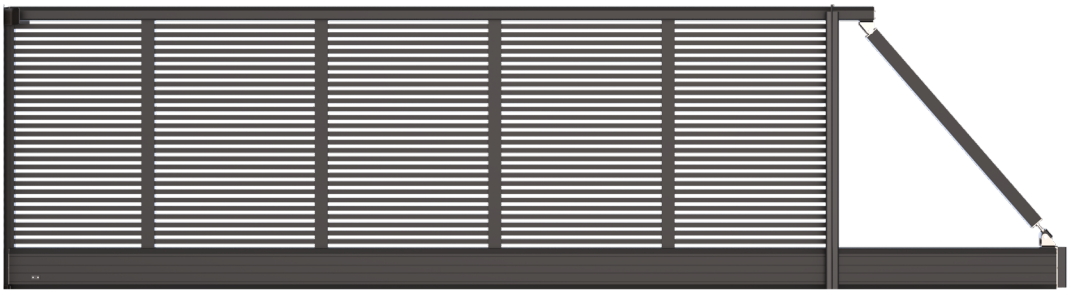
Check your order confirmation or logbook to see which type of operator applies to you.
The drives have the following characteristics:

	180T	250T	320T	500T SPEED
Brand	Aluconnect	Aluconnect	Aluconnect	Aluconnect
Connection voltage	230V / 50Hz	230V / 50HZ	230V / 50Hz	230V / 50Hz
Motor power supply	24V DC	24V DC	24V DC	24V DC
Turn-on time (ED)	80%	90%	80%	80%
Gate speed	max. 18 cm per second	max. 25 cm pro second	max. 32 cm per second	max. 50 cm per second
Pressure force	1100 N	1300 N	800 N	800 N
Maximum gate weight	880 kg	1000 kg	500 kg	500 kg
Safety lists gate wing	Passive	Active	Active	Active
Safety bars, guide post	Active	Active	Active	Active
Set of photocells inside & outside	✓	✓	✓	✓
Gear rack	Module 4, Plastic	Module 4, Plastic	Module 4, Plastic	Module 4, Plastic
Flashing light incl. LED lighting	✓	✓	✓	✓
Key switch	✓	✓	✓	✓
Hand held transmitter	✓	✓	✓	✓
Temperature minimum/maximum	-20°C / +50°C	-20°C / +50°	-20°C / +50°	-20°C / +50°

5. Delivery scope

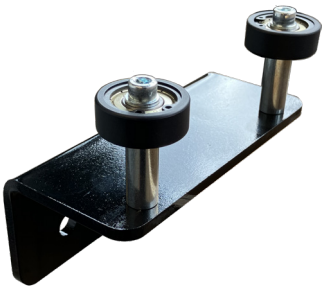
5.1. Standard components

The sliding gates consist of different components.
You can find which standard components make up the different gates by visiting the Aluconnect website. www.aluconnect.nl



Gate wing

Drive post



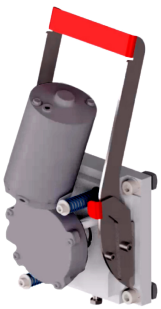
Upper guideance

Photocells

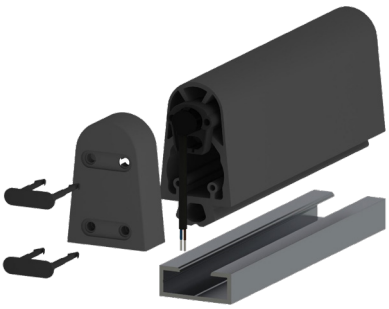
Slam post

Rear support roller

Hand-held transmitter



Drive



Safety edges

Flashing light with LED lighting

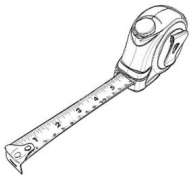
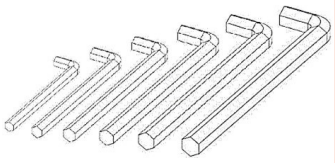
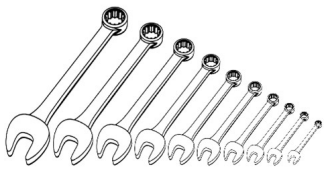
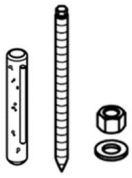
6. Installing the sliding gate

6.1. General

NOTE

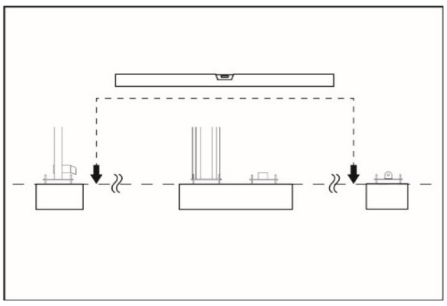
- Cordon off the work area before and during installation to ensure no unauthorised people have access. The safety of third parties must be safeguarded.
- Use the correct personal protective equipment.
- All installation work must be performed by professional and certified personnel.

6.2. Required tools

 Shovel	 Hammer	 Level
 Measuring tape	 Trowel	 Allen wrench set
 Screwdriver	 Wrench set	 Drill
 Hole cleaner	 Air pump	 Anchor set

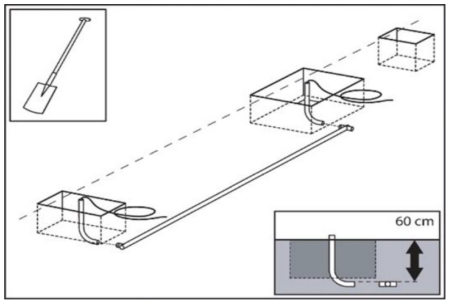
6.3. Preparing the ground

Ensure that the entire working area of the gate is level and free from obstructions.

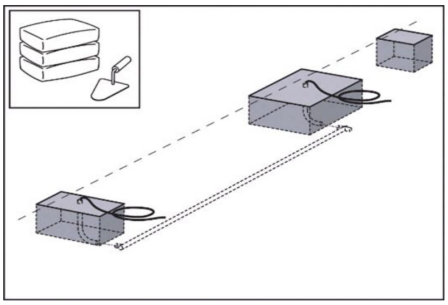


See the foundation plan for the location determination.

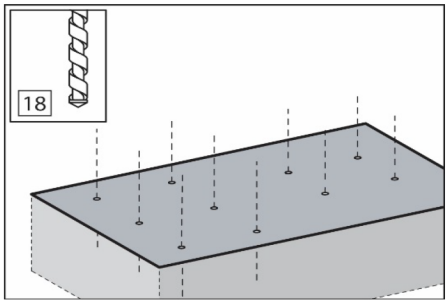
Prepare the conduits and possible accessories.
See the foundation plan.
Determine the 0 position for the gate and build the formwork for the foundations.
See the foundation plan.
Use a special pipe bend to have the cable pipe continue.
Ensure that the horizontal section of the pipe bend and cable pipe are located at least 60 cm under ground level



Pour the concrete. Allow the concrete to dry and harden sufficiently in accordance with the concrete specifications.
The foundations must be laid using poured concrete (concrete class B25)
The foundations must have a concrete mesh that has a dimension of at least 6 mm with a maximum mesh width of 150 mm, positioned under the centre of the foundations and over the full length and width.



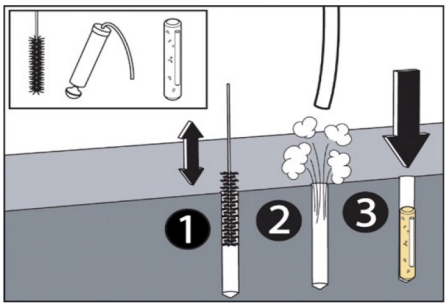
Draw the holes for the guide portal and guide wheels or installation plate on the foundations. Use the foundation plan for this. Drill the holes using an 18 mm drill bit.



NOTE

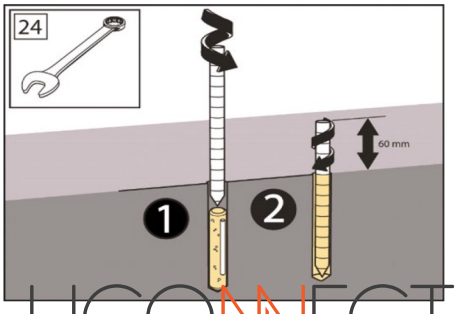
Do not yet drill the holes for the slam portal and the rear support roller.
Ensure that all components are in 1 line on the foundations.

o	Guide portal	o	Tandem set
o	Slam portal	o	Rear support roller



Brush the drilled holes.
Remove all dust and grit from the drilled hole using an air pump.
Install the chemical capsules.

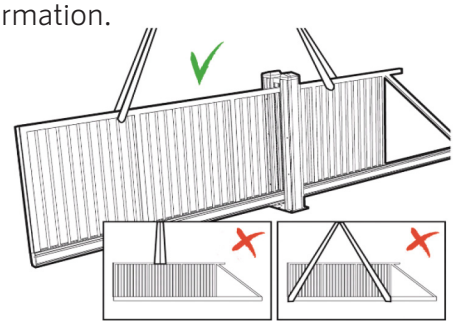
Insert the threaded rods with a rotational movement in the drilled hole. The threaded rods must at least protrude by 60 mm above the foundations.
Allow the chemical anchors to harden in accordance with the specifications.



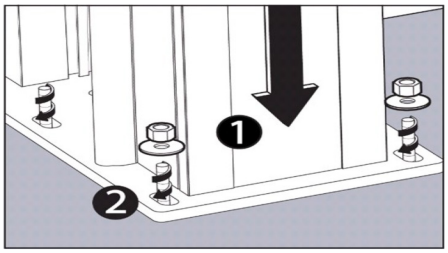
6.4. Installation of the sliding gate

IMPORTANT

- Only use approved lifting supports for moving heavy loads. Always perform lifting activities with more than one person.Even when using lifting supports. The maximum permitted weight for lifting is 25 kg per person.
- Note: Ensure that you use a sufficiently strong lifting tool. The maximum load will be specified on the lifting tool. Incorrectly lifting the gate may lead to gate deformation.
- NOTE:
  - o Ensure that the lifting slings are sufficiently spread out when lifting the wing.
  - o Ensure that the lifting slings are sufficiently load-bearing and are not frayed.
  - o Ensure that the gate is protected.
  - o Do not use chains



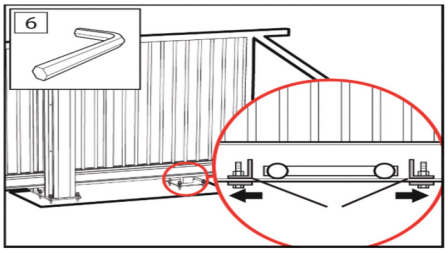
Position the post and gate on the washers of the adjusting nuts that have been screwed on to the threaded rods.
Position washers and nuts and manually tighten them.



The mechanical safety endstops that are used to protect the gate during its transport must be slid towards the outside.

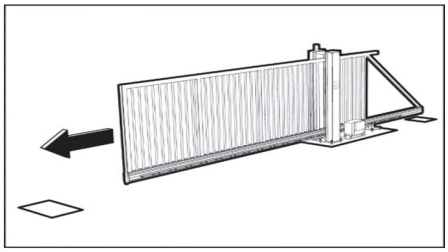
IMPORTANT

NEVER REMOVE THE SAVETY ENDSTOPS!!!.



Unlock the motor in accordance with the motor instructions in relation to electrically driven gates.
Adjust the safety endstops to the correct position so that the gate can open and close sufficiently.

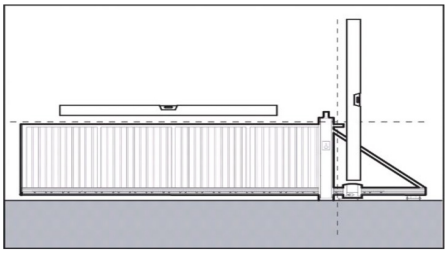
Move the gate to the closed position.



IMPORTANT

- Ensure that the passage is free from obstructions.
- Note: entrapment hazard!

Ensure the post and gate are level by adjusting the nuts on the threaded rods at the base plates.

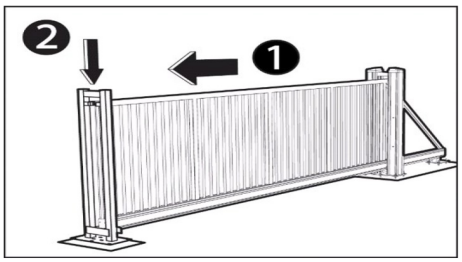


Tighten the nuts.

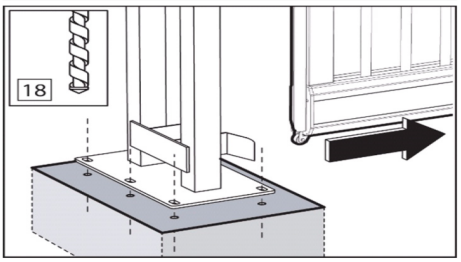
ALUCONNECT

6.5. Installation of the slam portal

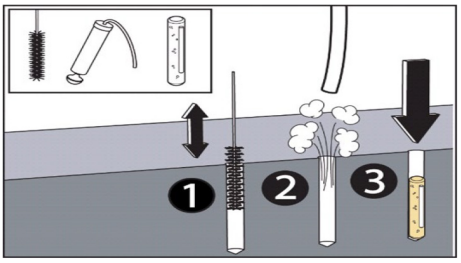
Ensure that the gate is in the closed position and determine the position for the slam portal.



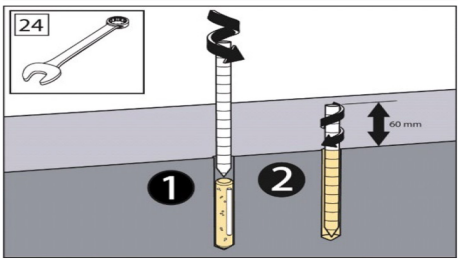
Draw the holes on the foundations. Use the base plate as a drawing template. Slightly slide the gate open. Remove the portal and drill the holes with an 18 mm drill bit.



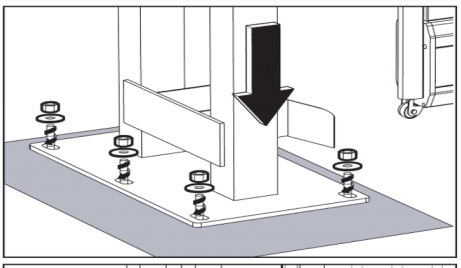
Brush the drilled holes;
Clean the drilled holes ensure that all dust and grit has been removed from the drilled hole;
Install the chemical capsules.



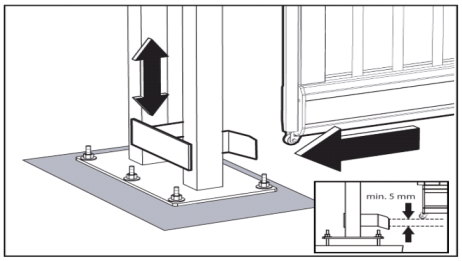
Insert the threaded rods with a rotational movement in the drilled hole. The threaded rods must at least protrude by 60 mm above the foundations.
Allow the chemical anchors to harden in accordance with the specifications.



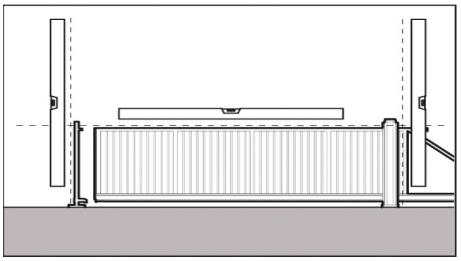
Position the slam portal on the threaded rods.
Position washers and nuts and manually tighten them.



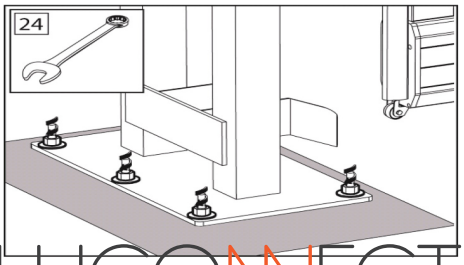
Close the gate to such an extent that the support roller or the bottom side of the bottom profile (depending on the gate type) is close to the catching ramp.
Adjust the height of the catching ramp until the space between the gate and the catching ramp is at least 5 mm. Not correctly adjusting this increases the probability of faults because of a pushing force that is too great.



Check the top run-in and set it if required.



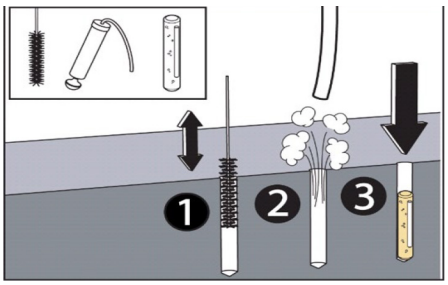
Tighten the nuts.



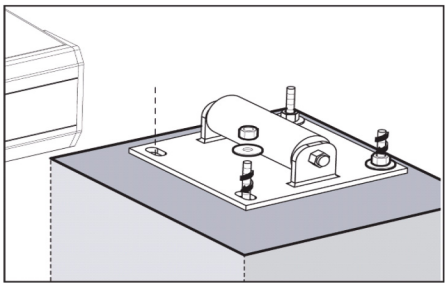
ALUCONNECT

6.6. Installing the rear support roller

Draw the holes on the foundations. Use the base plate as a drawing template (see the foundation plan for distances). Remove the rear support roller and drill the holes with an 18 mm drill bit. Brush the drilled holes. Clean the drilled holes. Ensure that all dust and grit has been removed from the drilled hole.
Install the chemical capsules
Insert the threaded rods with a rotational movement in the drilled hole. The threaded rods must at least protrude by 60 mm above the foundations. Allow the chemical anchors to harden in accordance with the specifications.

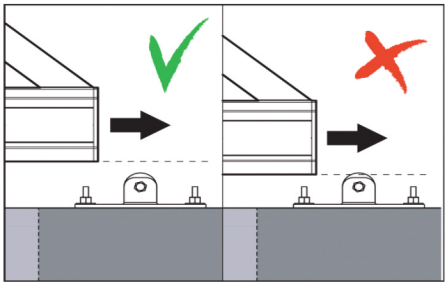


Position the rear support roller, washers and nuts and tighten them manually. Set the rear support roller. When opening the gate, the rear support roller must not touch the gate.



IMPORTANT

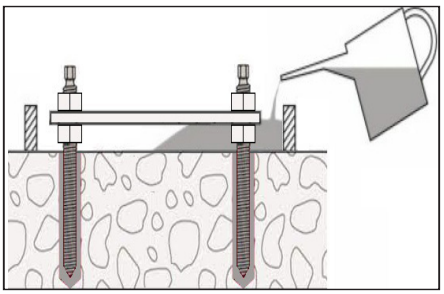
The gate must not run on the rear support roller in a forced manner. This may damage the gate!
Adjust the height of the rear support roller by turning the nuts. Tighten the nuts using the wrench.



6.7. Underfilling base plate / central catcher

IMPORTANT

All base plates and central catcher of the gate with anchors must be fully supported/shimmed after adjusting the gate to ensure a flush connection (any possible gap between the base plate and the foundation).



6.8. Positioning limit switch magnets

6.8.1. Limit switch OPEN (LO)

- The exact position of the magnet should be determined on site, depending on the passage of the gate.
- The LO magnet (front sliding gate) should be mounted on the lower recess of the lower beam -> see photo
  - Put the gate leaf in the desired OPEN position.
  - Mount the magnet with double-sided tape at the place where the gate leaf should stop in OPEN position, exactly opposite limit switch OPEN.
  - Once the correct position has been determined, screw the magnet onto the lower beam using the screws provided
  - If an OPEN impulse is given, the gate leaf will stop the moment the limit switch OPEN detects the magnet.

6.8.2. Limit switch CLOSED (LC)

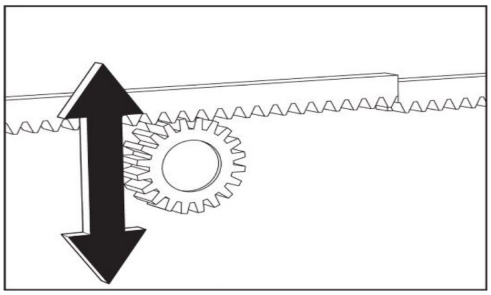
- The exact position of the magnet should be determined on site, depending on the passage of the gate.
- The LC magnet (Back sliding gate) should be mounted on the upper recess of the lower beam -> see photo
  - Put the gate leaf in the desired CLOSE position.
  - Mount the magnet with double-sided tape at the place where the gate leaf should stop in CLOSE position, exactly opposite limit switch CLOSE
  - Once the correct position has been determined, screw the magnet onto the lower beam using the screws provided
  - If an CLOSE impulse is given, the gate leaf will stop the moment the limit switch CLOSE detects the magnet.

6.9. Electrical installation

IMPORTANT

- The instructions in this section must be performed by a relevantly certified and professional engineer and in accordance with the locally applicable legislation and regulations
- The customer must ensure there is a power supplying cable (230 V) at the foundations of the sliding gate (see the foundation drawing) with an additional length of +/- 2.0 metres. The power supplying cable must have a watertight power outlet.

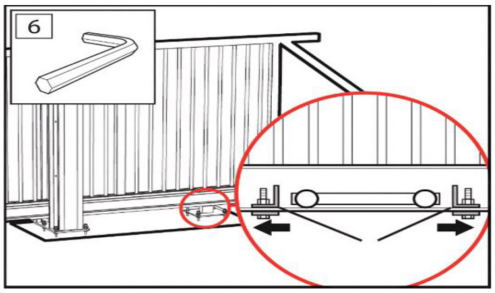
Adjusting the toothed rack (if applicable)
Adjust the toothed rack in relation to the gear of the motor. The clearance must be the smallest possible. (1 to 2 mm)



Check the adjustment of the toothed rack in relation to the gear over the full length.

Adjust the toothed rack or the traction unit if the clearance is too great.

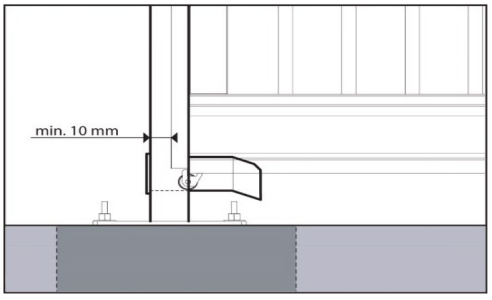
Connecting the photocells
Connect the photocells from the slam portal.



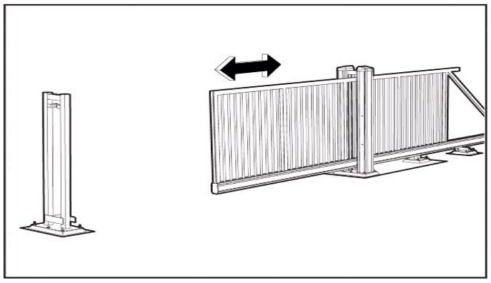
Safety endstops
Again check whether the safety endstops are at the right location: you must be able to open and close the gate completely, but in such a way that the pressure edge is positioned 10 mm in front of the rear side of the catching ramp.

IMPORTANT

- Entrapment hazard!



Move the gate to the centre position.

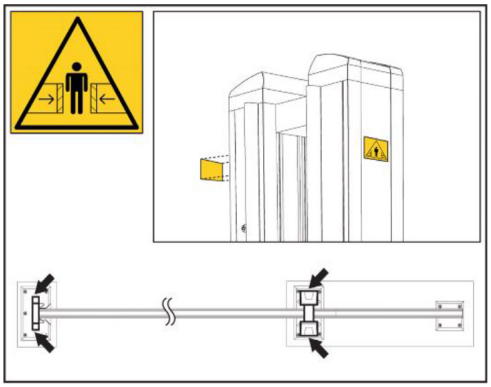


ALUCONNECT

NOTE

- **Electrocution danger!**

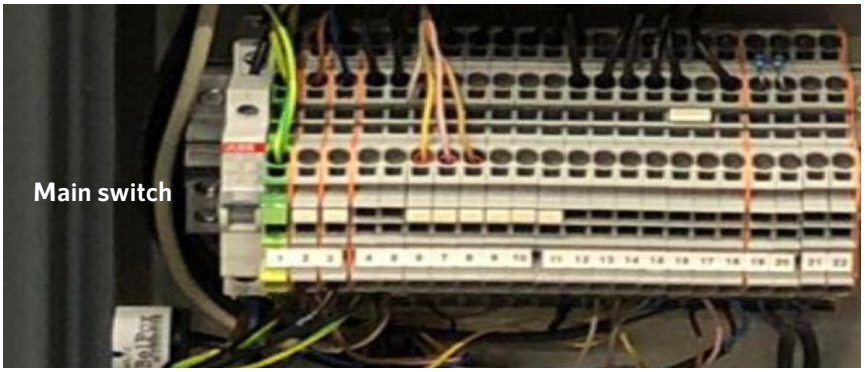
Check whether there is no voltage on the product. Next, connect the power supply cable in the post to the wall power outlet in accordance with the applicable standards.



Remove the cover of the control box in the post and check the fuses**.**

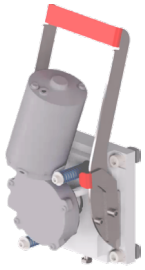
Affix the warning labels.

With the aid of the main switch, the electrical installation can be de-energized, do this by turning the main switch this is located on the left along the terminal strip.



Commissioning electrical installation see programmer manual

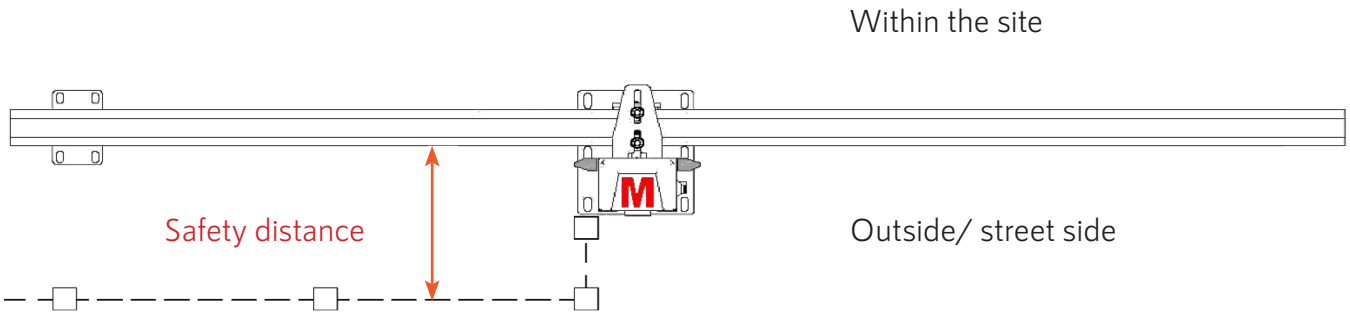
Lock the motor

Drive unit	Locked	Unlocked
180T		

Check that everything is functioning properly.

7. Fence connection safety distance

7.1. Sliding gates up to 12 meters



The table below provides information about the safe distance between the fence line and the wing of the sliding gate that moves along this fence line.

Opening in the fencing*	Minimum safety distance
≤18,5 mm	120 mm
>18,5 mm / ≤9,0 mm	300 mm
>29,0 mm / ≤4,0 mm	500 mm
>44,0 mm / ≤100,0 mm	850 mm

* smallest dimension if a rectangular opening

8. Transfer to the user

8.1. Instructions

After installation, the installer must correctly train the user in the use of the gate.
Bear the following in mind (this is not an exhaustive list):

- Explanation of general use;
- Explenation of the use of the options;
- Explanation of legally applicable regulations;
- Explanation of maintenance and possible mainenance contract;
- Handover of the user manual;
- Signing of the transfer document;
- Providing the contact details of the installer.

IMPORTANT

- The sliding gate may only be opened or closed under the supervision of and by people with sufficient experience and knowledge regarding the sliding gate
- Only operate an unlocked and manually operated sliding gate with the handle. Use the full handle to avoid the risk of entrapment.
- An uncontrolled movement of the gate wing (for example, caused by wind) must be prevented both in an open and a closed condition. Manual operated sliding gates are standard supplied with a wind security handle and for unlocked automated sliding gates, there are wind security handles available.
- When the gate wing opens or closes in an uncontrolled manner, structural deformation of the gate can occur, which may represent a hazard for people and the surrounding area.
- An unlocked and manually operated sliding gate may never be opened or closed unsupervised!
- The vertical head bar on the gate wing has a safety edge that does not cover the entire height of the wing. Becoming trapped cannot be excluded here.
- The sliding gate may only be operated when the entire sliding gate is visible from the hold-to-run control.

9. Environment, disassembly, storage and transport

9.1. Environment

Recycling

At the end of the product's service life, it must be disposed of separately from other waste.

9.2. Disassembly

Ask about the options on how to dispose of the product within your region when the product will no longer be used. Do not throw away electric equipment and components such as batteries and the accumulator, instead determine whether the product (or its components) can be delivered, recycled or reused.

If you do not have any of these options, skilfully remove all components that can be reused yourself such as metals, fastening materials and electric components. Remove plastic components for recycling.

9.3. Storage and transport

If you want to store or transport the product, make sure that you correctly package the product. The product must be stored in a dry environment.

10. Notes

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V25.02

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