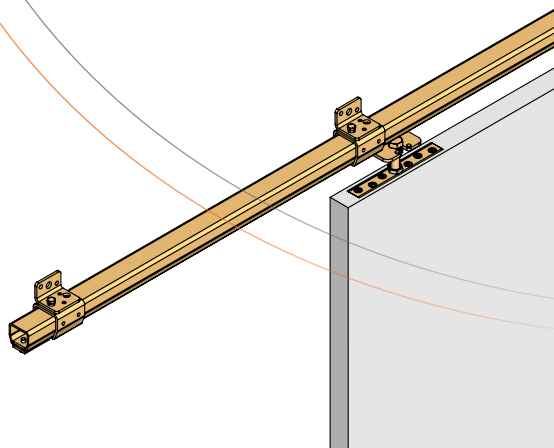


# INSTALLATION OPERATION & MAINTENANCE MANUAL

for sliding door  
systems



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## INSTALLATION, OPERATION & MAINTENANCE for sliding door systems

### **1. TECHNICAL DESCRIPTION OF NIKO SLIDING DOOR SYSTEMS**

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## **Prologue:**

On the instructions:

The information on this form has been checked carefully for their accuracy. However, there is not given guarantee for the correctness of the contents. The information on this form may change without notice.

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## **Brands:**

All brands (and their logos) are property of their owners.

NIKO is a brand name of Helm Hellas SA and will be used from herein to describe the company.

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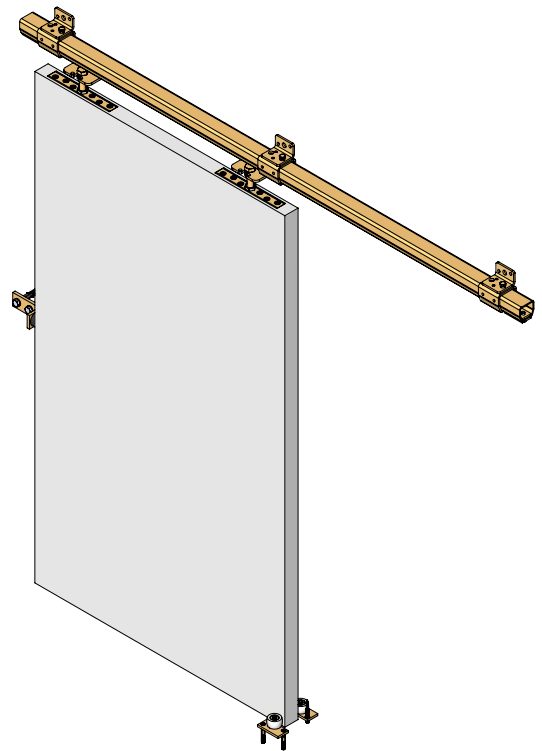
# 1 TECHNICAL DESCRIPTION of NIKO sliding door systems

## 1.1. General description

“NIKO®” provides a wide range of products in order to cover the high demands of door hardware market for domestic, commercial and industrial applications.

### Key design characteristics of Niko sliding door fittings:

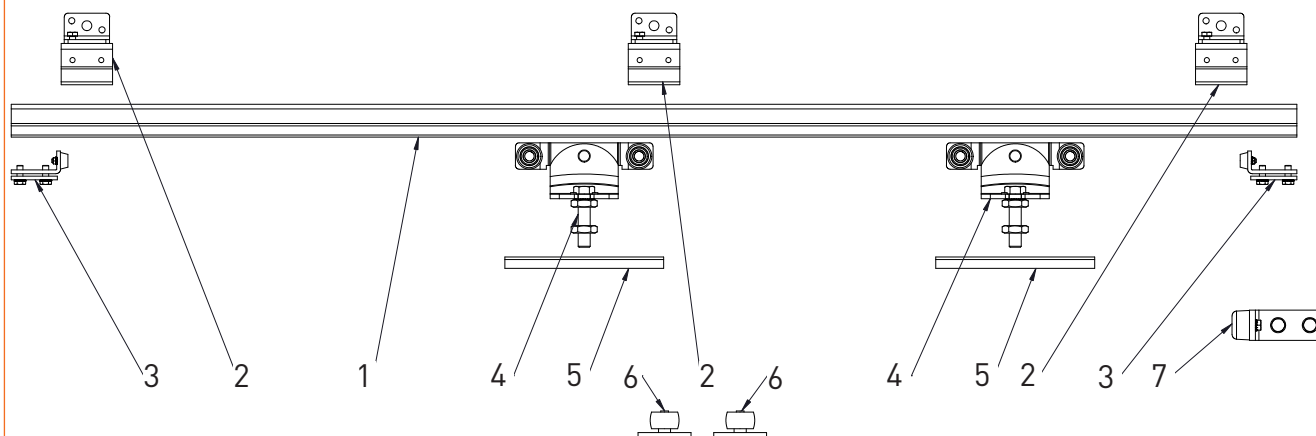
1. Loads up to 2000 kg
2. All our products are zinc plated, which allows smoother running of our wheels in the track profiles and uniform color among our components.
3. We have achieved the highest EN 1527 certification ranking (tested up to 100000 run cycles)
4. Six different track profiles
5. Our track profiles have an unrivaled compact construction and therefore require less space.
6. The NIKO enclosed track tapered design enables self-alignment of the wheel hangers and reduces the possibility of dust built up. This ensures the smooth running of the wheel hangers and a long life span for the sliding doors.
7. Our wheels and bearings are custom made and are significantly more durable under load compared to standard bearings that are commonly used for sliding door fittings.
8. Our wheels are made from specially designed bearings which makes them much more durable than the wheels made from standard bearings.



All components must be selected according to the track profile in order the system to be functional. Should you be using hanger 23.R91, then track 23.000, support bracket 23.B.., stopper 23.X01 or 23.X04 and so on, are required.

## 1.2 Component specifications

for a typical sliding door



The system includes the following components:

### 1. Track .000

The total length of the track profile should be 2 times the width of the panel (2XB).

### 2. Wall support bracket .B01

The support brackets should be equally positioned on the track and the maximum support distance for all track profiles is 75cm. The right selection of support bracket's type depends on the construction on which the track will be fixed.

### 3. Track end stop .X01

Select the right end stop profile according to the track profile.

### 4. Double wheel hanger .R91

2 items of wheel hangers are required per panel. The proper hanger profile and type are based on the panel weight and the way that the panel will be fixed under the hanger.

### 5. Bracket for wooden constructions .F00

Select the proper type of bracket according to the preferred hanger, panel construction and material of panel (wooden or steel).

### 6. Guide roller with base plate .X59

There are two options that depend on the application:

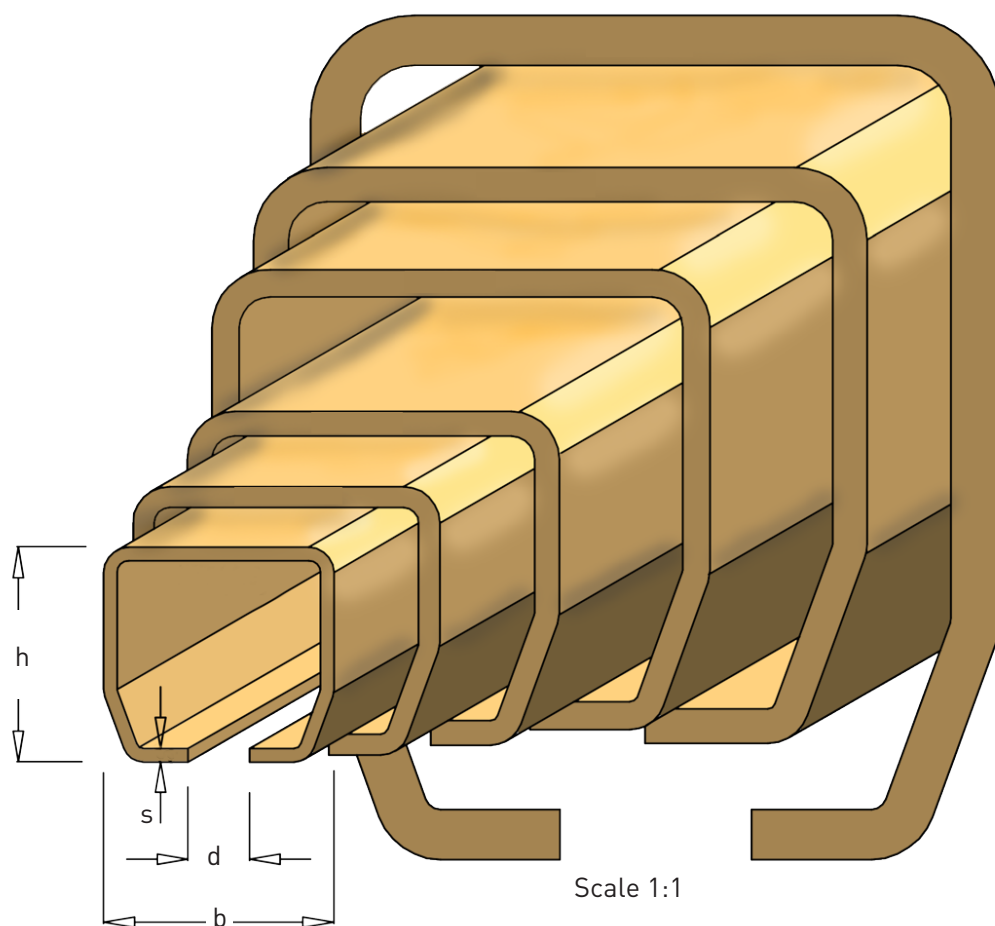
- 1) Use of a guide track with guide bottom bracket
- 2) Use of guide rollers without guide track.

### 7. Door end stop .X02

It is optional and depends on the door application.

## 1.2.1 General details for track profiles

NIKO Profile No.	Dimensions			
	h (mm)	b (mm)	d (mm)	s (mm)
21.000	28,00	30,00	8,00	1,75
21.050 Stainless steel (304)	28,00	30,00	8,00	1,75
21.070 Stainless steel (316)	28,00	30,00	8,00	1,75
23.000	35,00	40,00	11,00	2,75
23.050 Stainless steel (304)	35,00	40,00	11,00	2,75
23.070 Stainless steel (316)	35,00	40,00	11,00	2,75
24.000	43,50	48,50	15,00	3,20
24.050 Stainless steel (304)	43,50	48,50	15,00	3,20
24.070 Stainless steel (316)	43,50	48,50	15,00	3,00
25.000	60,00	65,00	18,00	3,60
25.050 Stainless steel (304)	60,00	65,00	18,00	3,60
25.070 Stainless steel (316)	60,00	65,00	18,00	4,00
26.000	75,00	80,00	22,00	4,50
27.000	110,00	90,00	25,00	6,50



## 1.3 Technical specifications

### Before installing the system, determine:

- ✓ The weight of door (kg). All weights show in tables below are based on a 75cm distance between track supports.
- ✓ The door size
- ✓ Construction of door (wooden or metal framed)

### 1.3.1 Chart with allowed loads for wheel hangers

Select the track according to the weight and dimensions of the door. In general, twice the width of the door is needed.

#### 4-wheel hanger

NIKO Profile No.	Single hanger load capacity	Sliding door manually (two hangers)	Sliding door motorized (two hangers)
	Max / kg / PC	Load capacity / kg / Door panel	Load capacity / kg / Door panel
21.000	50	100	-
23.000	100	200	140
24.000	200	400	240
25.000	300	600	480
26.000	600	1200	950
27.000	1000	2000	1400

#### 2-wheel hanger

NIKO Profile No.	Single hanger load capacity	Sliding door manually (two hangers)
	Max / kg / PC	Load capacity / kg / Door panel
21.000	30	60
23.000	65	130
24.000	100	200
25.000	200	400
26.000	400	800
27.000	700	1400

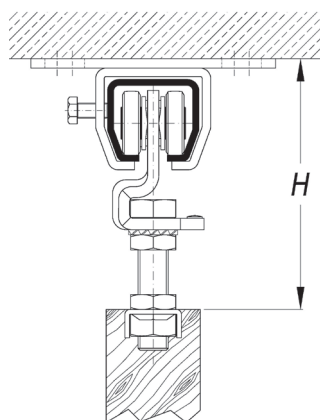
# 1

## 1.3.2 Supporting options of track profiles for sliding doors

### i) Ceiling support option



The right selection of support bracket type depends on the construction on which the track will be fixed.

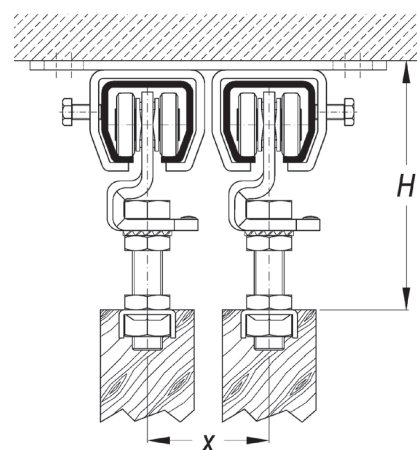


#### Ceiling support bracket with wheel hangers for sliding doors

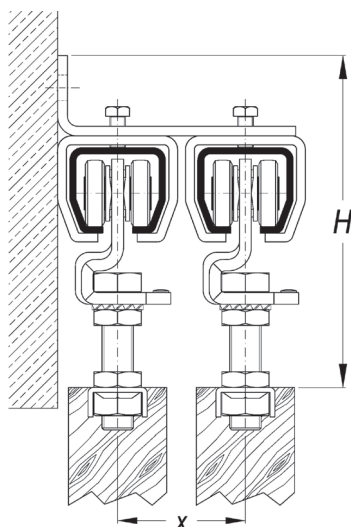
NIKO Profile No.	Ceiling support bracket	Dimension H max. / min.
21.000	21.B02	89 / 74
23.000	23.B02	121 / 93
24.000	24.B02	140 / 110
25.000	25.B02	173 / 145
26.000	26.B02	278 / 190
27.000	27.B02	337 / 243

### Double ceiling support bracket with wheel hangers for sliding doors

NIKO Profile No.	Double ceiling support bracket	Dimension H max. / min.	Dimension X
23.000	23.B32	89 / 74	50
24.000	24.B32	121 / 93	60
24.000	24.B34	140 / 110	90
25.000	25.B32	173 / 145	85



### ii) Wall support option



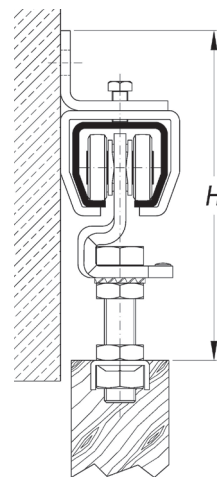
#### Double wall support bracket with wheel hangers for sliding doors

NIKO Profile No.	Double wall support bracket	Dimension H max. / min.	Dimension X
23.000	23.B31	165 / 135	50
24.000	24.B31	195 / 165	60
25.000	24.B33	195 / 165	90
26.000	25.B31	220 / 195	85

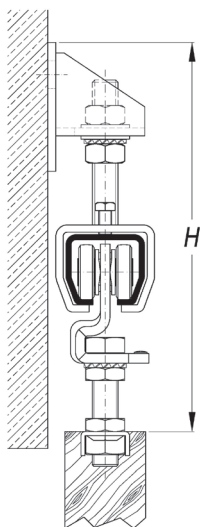


## Wall support bracket with wheel hangers for sliding doors

NIKO Profile No.	Wall support bracket	Dimension H max. / min.
21.000	21.B01	112 / 98
23.000	23.B01	148 / 121
24.000	24.B01	175 / 146
25.000	25.B01	215 / 188
26.000	26.B01	330 / 242
27.000	27.B01	400 / 306



### iii) Adjustable wall bracket option

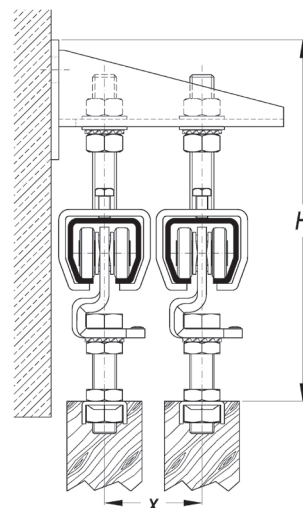


### Adjustable wall bracket with height adjustable bracket and wheel hanger for sliding doors

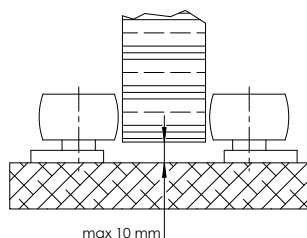
NIKO Profile No.	Adjustable wall bracket	Height adjustable bracket	Dimension H max. / min.
21.000	21.B05	21.B04	170 / 130
23.000	24.B05	23.B04	245 / 185
24.000	24.B05	24.B04	260 / 185
25.000	26.B05	25.B04	345 / 245
26.000	26.B05	26.B04	510 / 290

### Double adjustable wall bracket with height adjustable bracket and wheel hanger for sliding doors

NIKO Profile No.	Double adjustable wall bracket	Height adjustable bracket	Dimension H max. / min.	Dimension X max. / min.
21.000	21.B06	21.B04	175 / 140	70 / 40
23.000	24.B06	23.B04	245 / 185	115 / 50
24.000	24.B06	24.B04	260 / 185	110 / 60
25.000	26.B06	25.B04	345 / 245	145 / 85
26.000	26.B06	26.B04	510 / 290	135 / 105
27.000	27.B06	27.B04	575 / 365	120 / 118



To calculate the door height you should take into account the opening height, the "H" dimension depending on the bracket type (support option) and an approx. 10mm clearance between the ground and the door.



10mm clearance

INSTALLATION, OPERATION & MAINTENANCE MANUAL  
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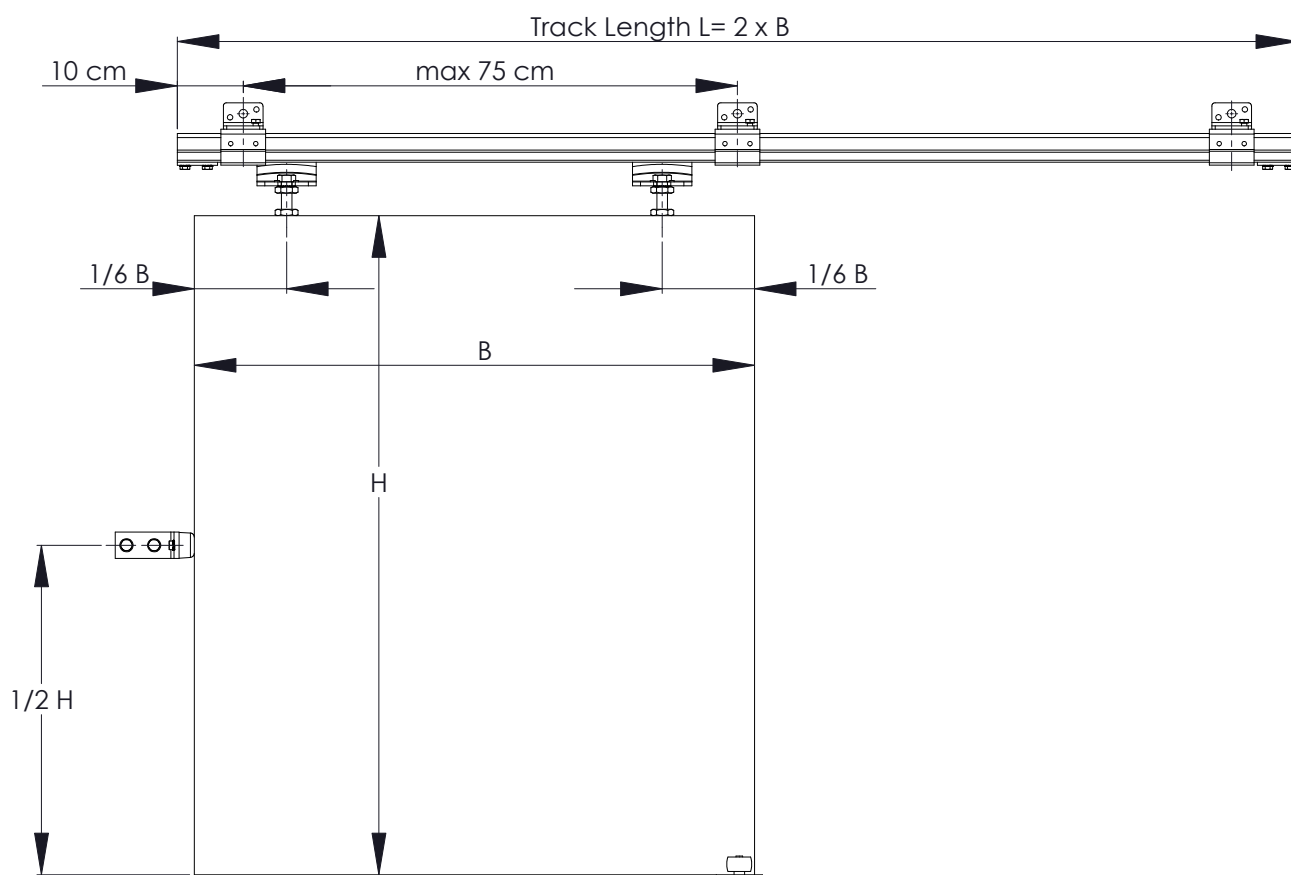
[www.niko.eu.com](http://www.niko.eu.com)



# 2 INSTALLATION INSTRUCTIONS

## for a typical sliding door

### 2.1 Installation instructions



#### STEP 1

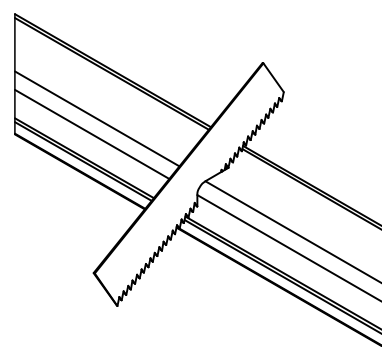
Cut the track at the required length.  
Track length should be twice the door width.

#### STEP 2

Calculate the number of  
support brackets according  
to the length of the track.



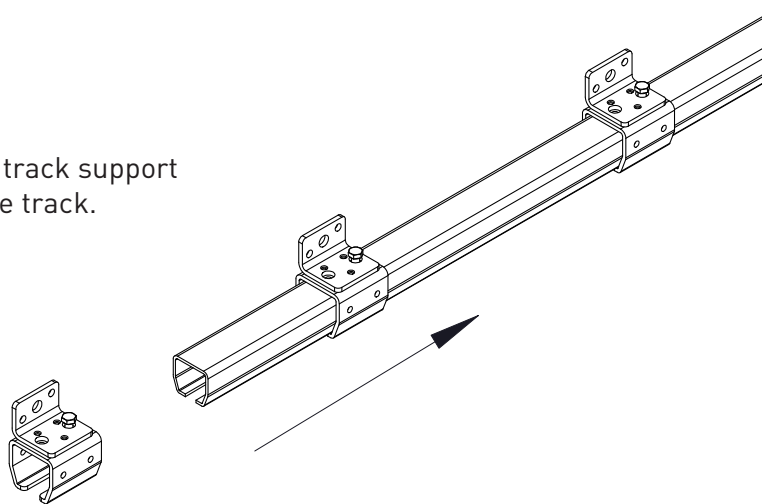
**The maximum  
supporting  
distance is 75cm.**



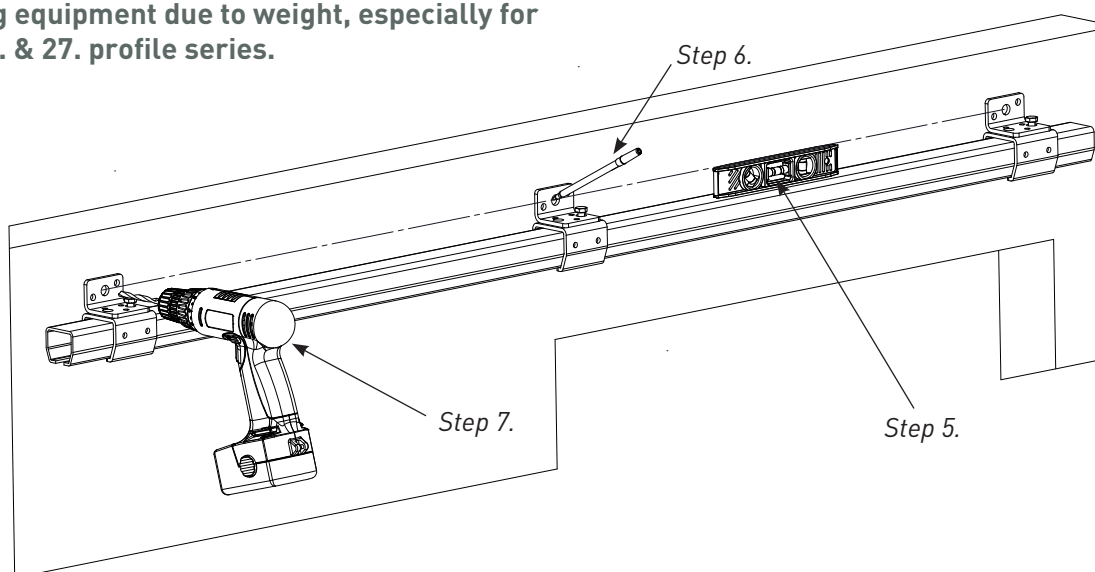
**Make sure to remove  
any chips or dirt from  
inside the track after  
cutting processing as  
they will damage the  
trolleys and cause  
noise during operation.**

**STEP 3:**

Gradually insert track support brackets onto the track.



The installation of the set "track-support bracket must be done using appropriate lifting equipment due to weight, especially for 26. & 27. profile series.

**STEP 4:**

Place the set "track-support brackets" on the wall

**STEP 5:**

Align the track with a spirit level

**STEP 6:**

Mark where the holes need to be drilled

**STEP 7:**

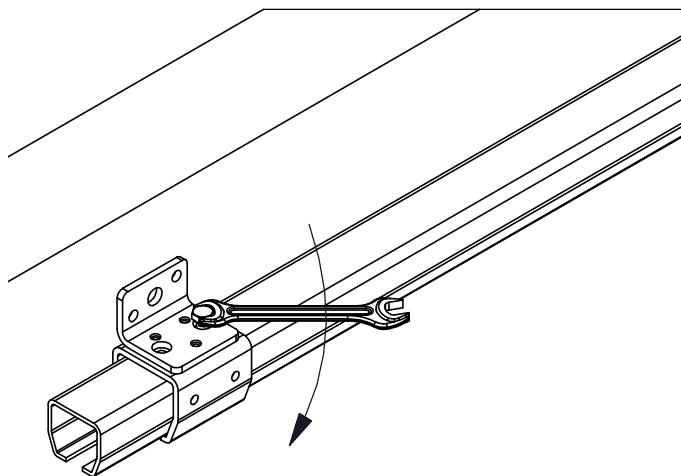
Lift down the set "track-support brackets" and drill holes at the marks

**STEP 8:**

Choose hardware and fasteners according to construction type. Place back the set and fix support brackets on the existing construction



It is very important to achieve horizontal alignment because this will result in smooth running.

**STEP 9:**

Tighten the bolts of the brackets with appropriate tightening torque



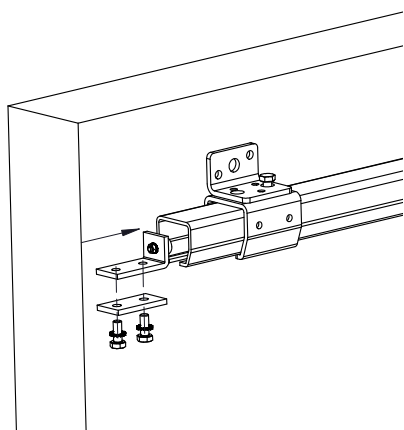
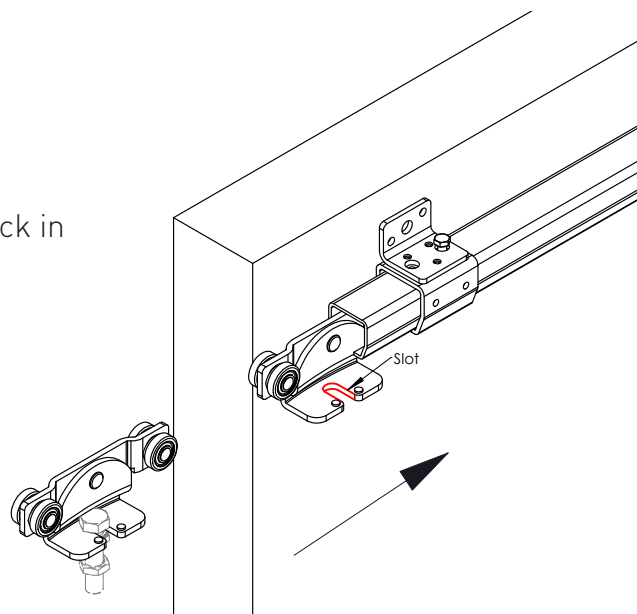
All the bolts must be tightened with the proper torque according the size of the bolt (See Table 1)

**STEP 10:**

Slide double wheel hangers (.R91) into the track in correct orientation

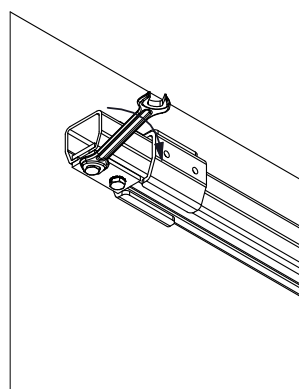


**Bracket slot should face the outside**



**STEP 11:** Install track end stops inside each end of the track

**STEP 12:** Tighten the bolts with appropriate tightening torque (See Table 1)

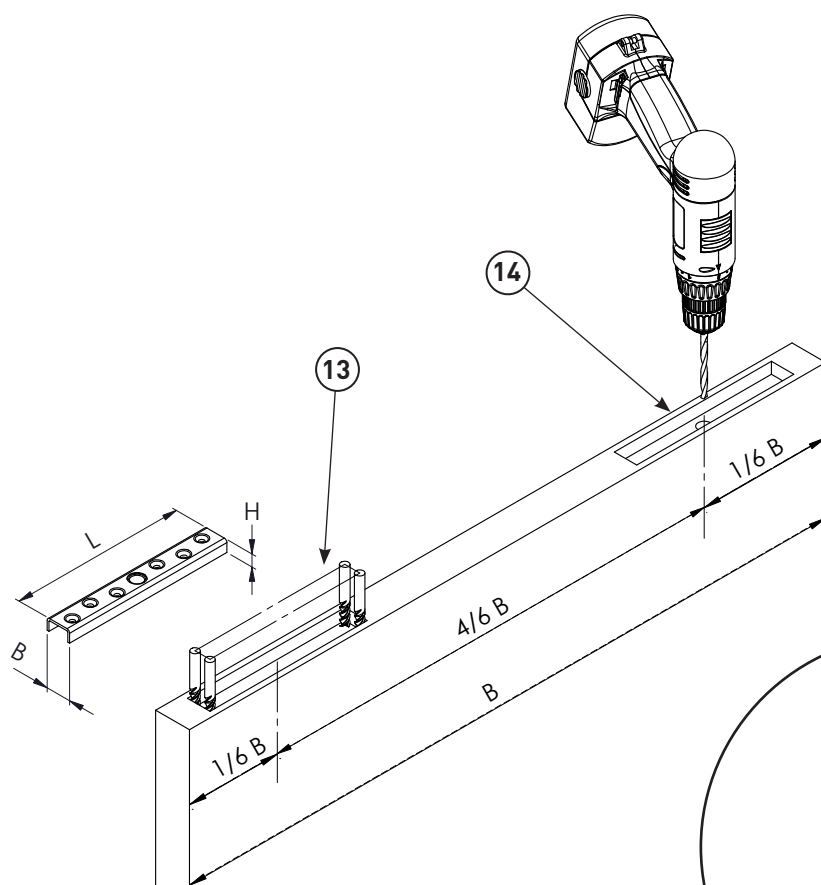


Bolt (Class 8.8)	M6	M8	M16	M12	M16	M20	M24	M30
Torque	10	25	50	87	210	412	711	1422

Table 1

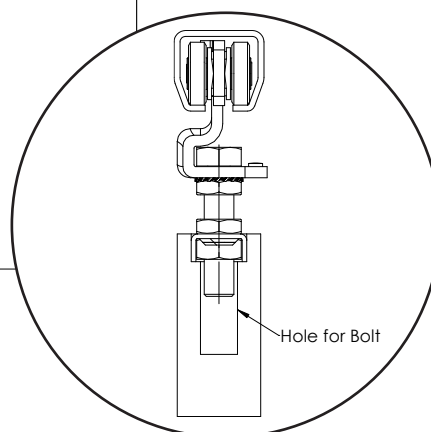


**Do not proceed to next steps unless you install the stoppers.**

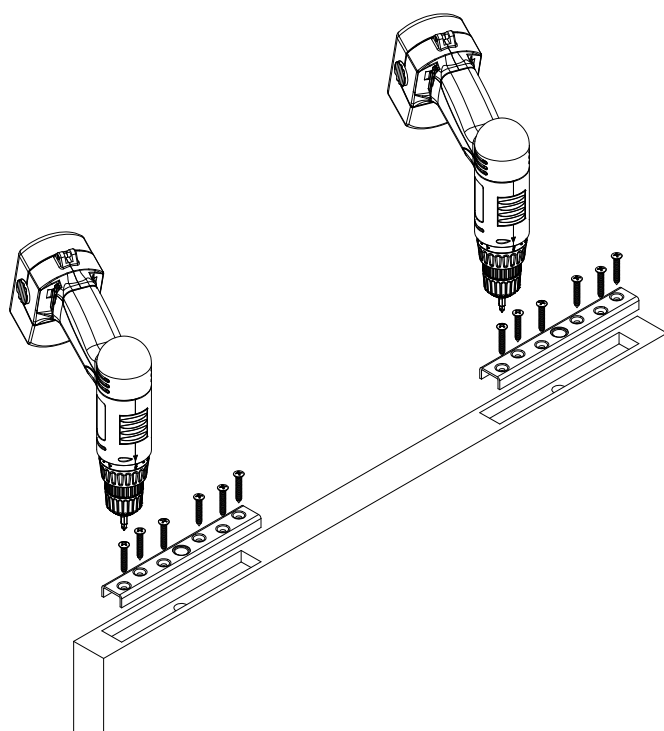


**STEP 13:** Use a router (for wooden panel) or preferred method to remove material to correct depth

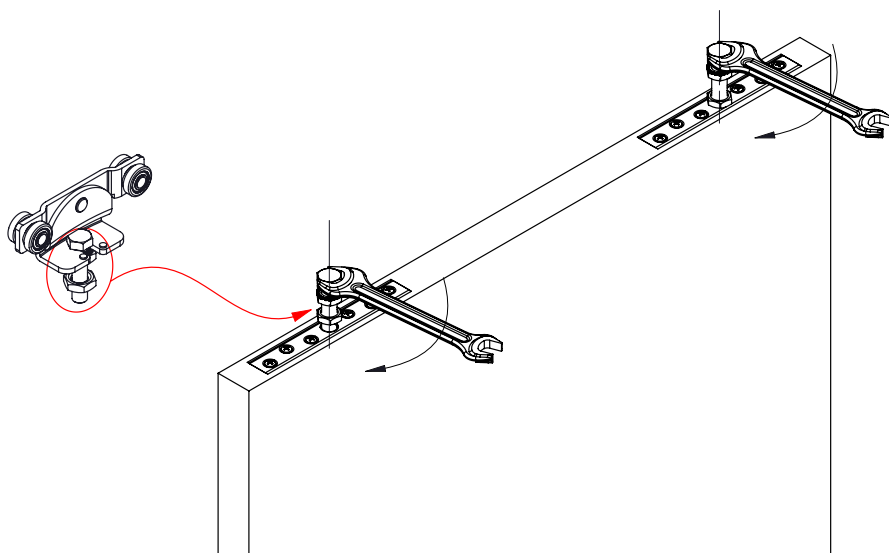
**STEP 14:** Drill a hole in the center of both notches to adjust the door height on the following steps



*Detail view of the hole for the bolt*

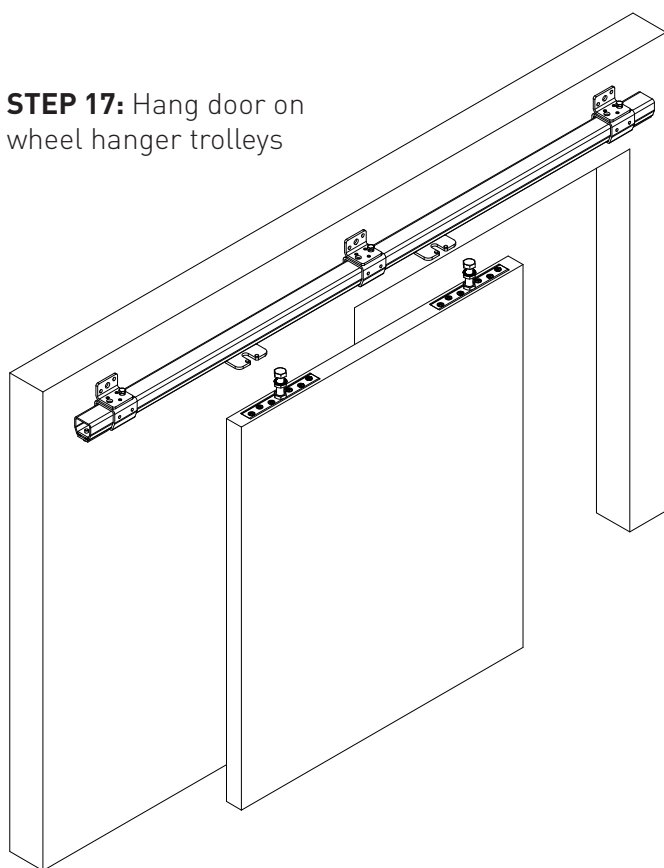


**STEP 15:** Insert bracket into notch at upper part of panel and fix the bracket with countersunk bolts (not included). Depending on the type of panel (metal frame and appropriate bracket) a welding process may be required

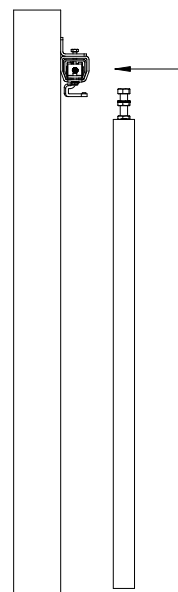


**STEP 16:** Screw the bolt of wheel hanger on each bracket

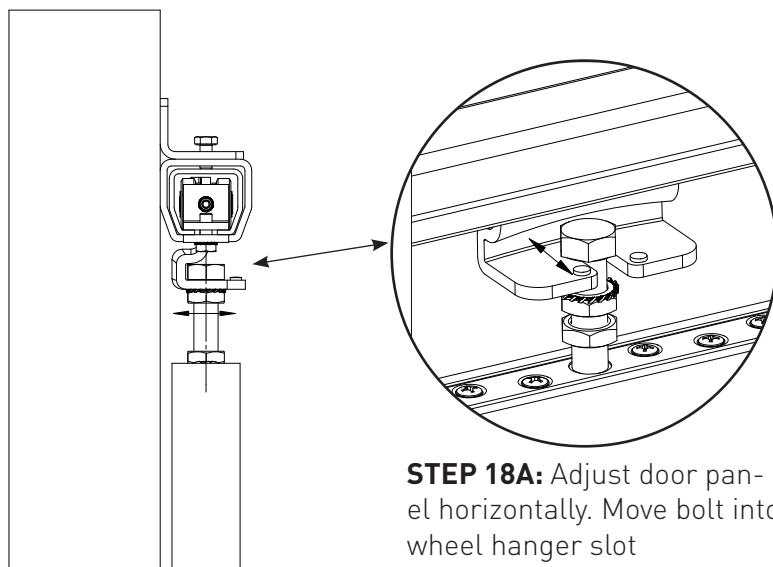
**STEP 17:** Hang door on wheel hanger trolleys



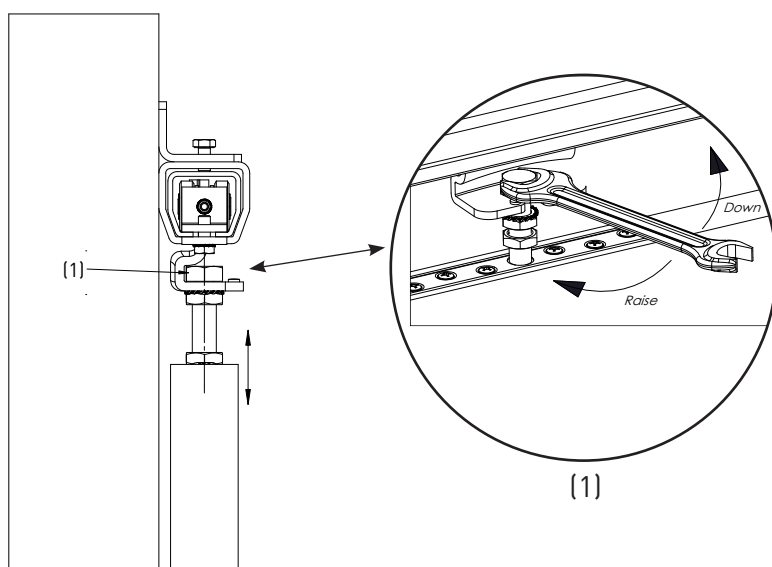
The installation/hanging of the door must be done using appropriate lifting equipment according to door weight



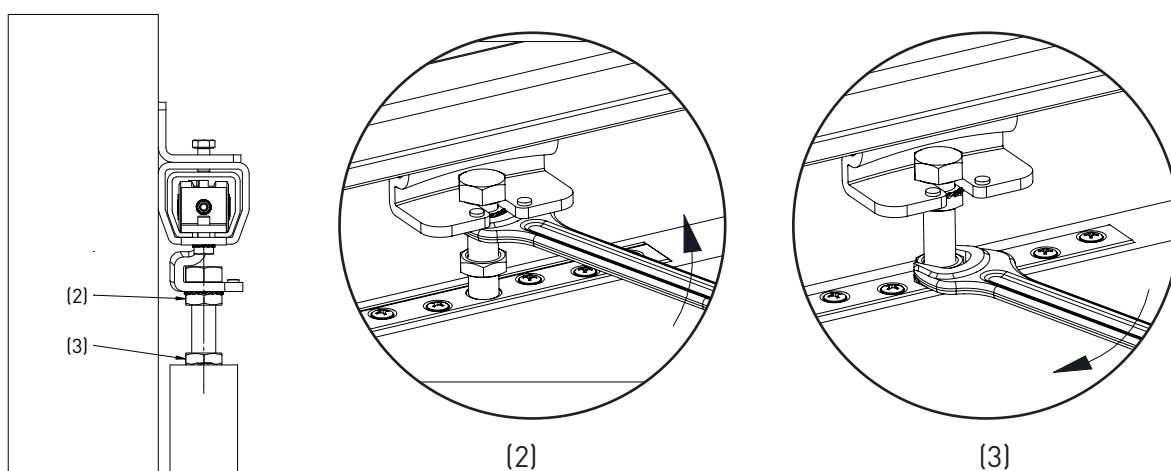
## STEP 18: Adjust and fix door panel



**STEP 18A:** Adjust door panel horizontally. Move bolt into wheel hanger slot

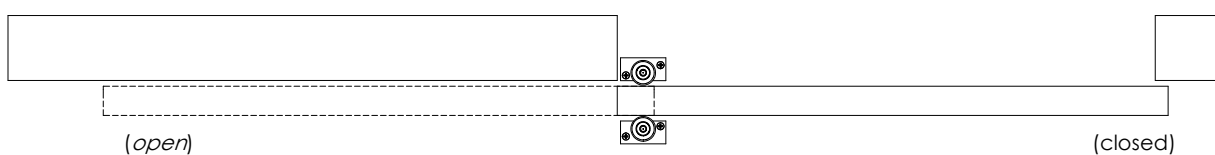
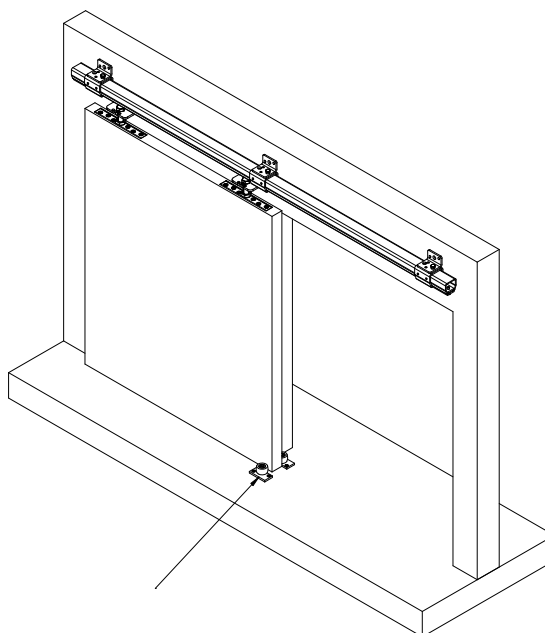
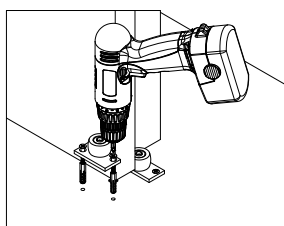
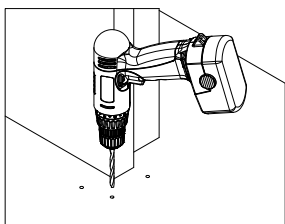


**STEP 18B:** Adjust door panel vertically. Screw bolt (1) to adjust the panel

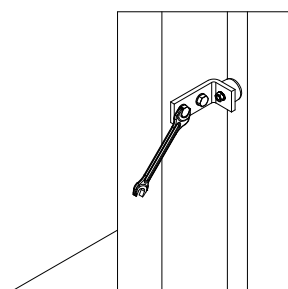
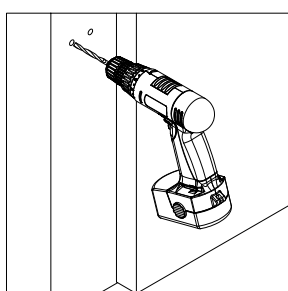


**STEP 18C:** Tighten the nut (2) with appropriate tightening torque. *Table 1*  
Tighten jam nut (3) so that nut and bracket lock together

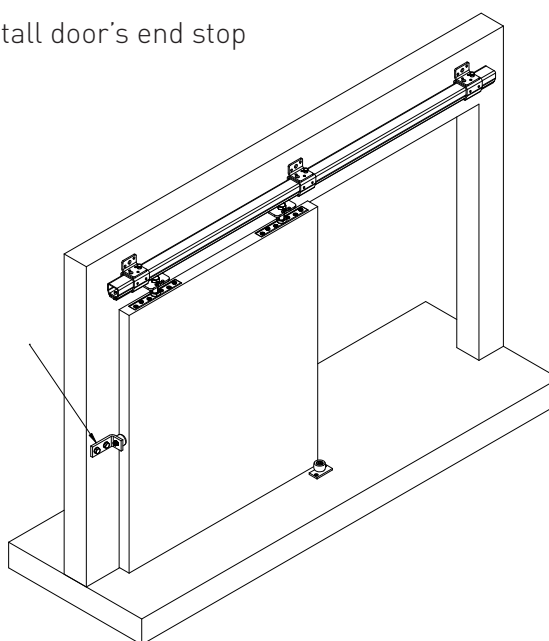
**STEP 19:** Install guide rollers with fixing plugs (not included) so that door panel remains between guide rollers in either closed or open positions.



*Top view of the sliding door*

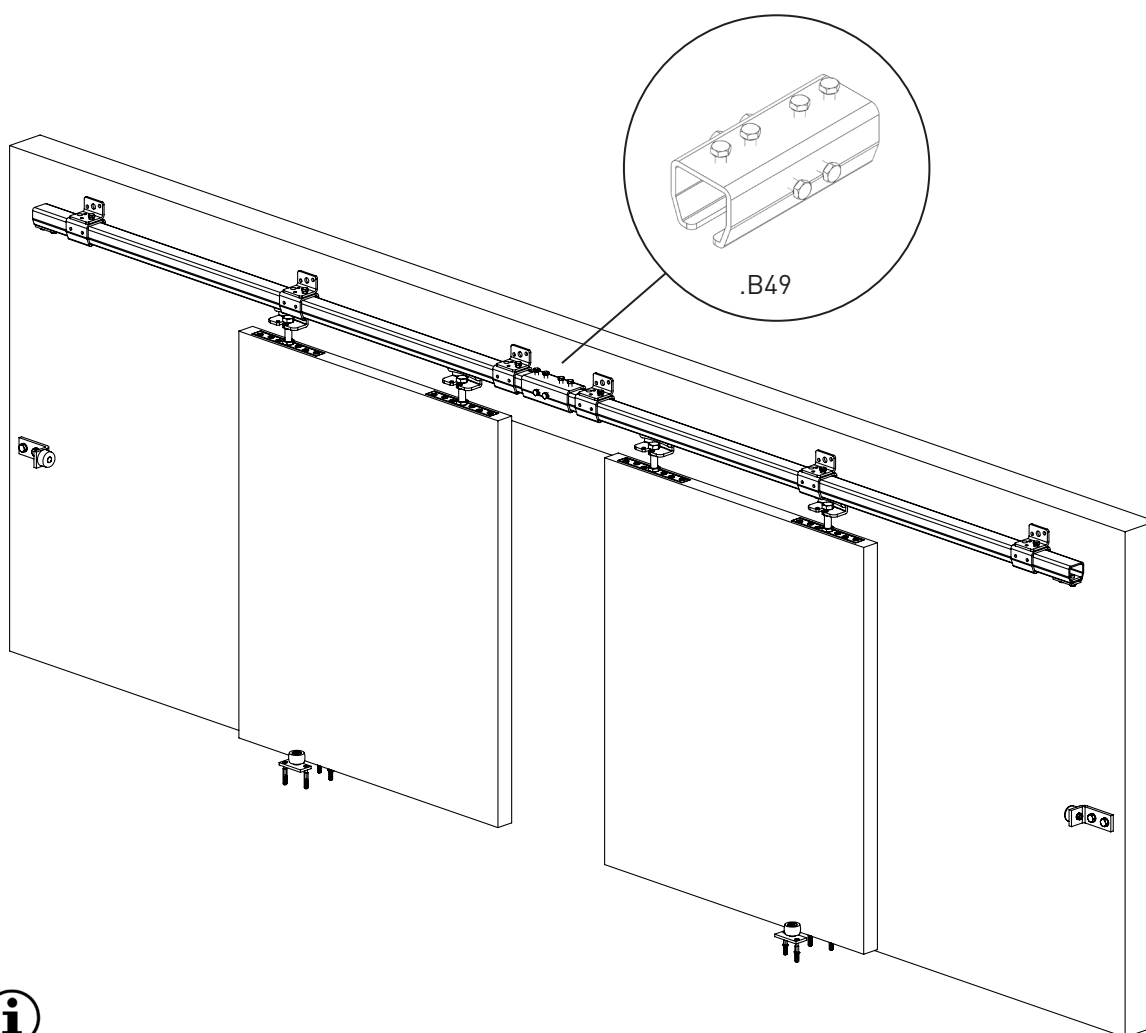


**STEP 20:** Install door's end stop





# 3 TWO PANEL SLIDING DOOR



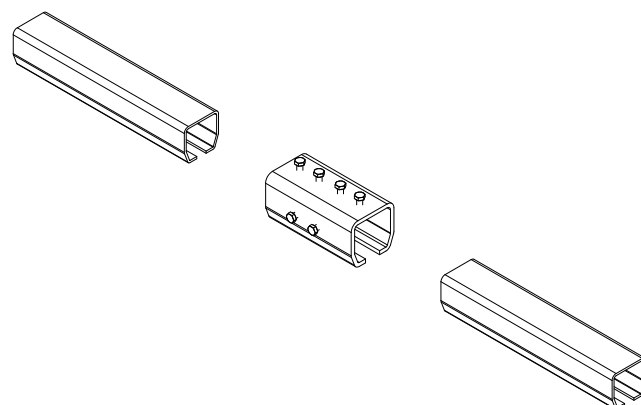
In case you have 2 panels or a single panel of big width and you need to join together 2 or more pieces of tracks, use a splice joint (B49) to connect the tracks together. In order to eliminate the gap between the connected pieces of tracks and also align the connected tracks, regulate the screws that are positioned at the sides and at the top of the splice joint (B49). When you are using splice joint it is necessary to place support brackets at the right and left side of the splice joints with the minimum distance between the joint and the bracket.

## Installer should follow the next steps:

**STEP 1:** The edges of each track enter the joint and meet in the centre.

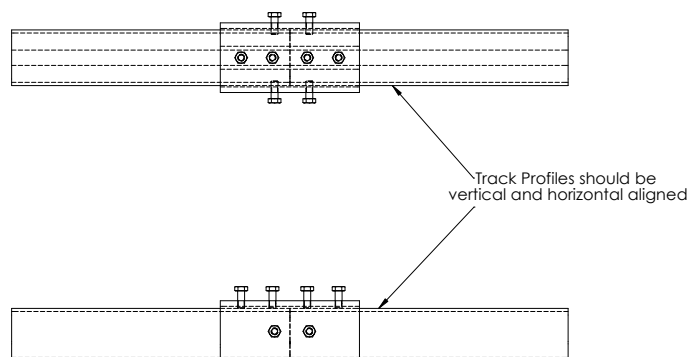
**STEP 2:** The four bolts at the top of the joint have to be bolted so that the track has tight contact with the joint, creating a flat running surface through the joint.

**STEP 3:** The four side bolts are used to achieve horizontal alignment within the joint.



**Care must be taken with the following:**

- ✓ Alignment of the two parts both to horizontal and vertical level is absolutely necessary in order to avoid any problem to trolleys rolling inside the tracks. The gap between the two parts of track must be as small as possible.






- ✓ Pay particular attention when supports are used around a splice joint. The joint is used only for connection and does not support any load. The joint must be supported either side by additional support brackets. These supports must not be omitted.







# 4

## BASIC RULES for safety - operation



Meaning of symbols

	<b>WARNING CAUTION</b>	Warns you about the health and indicates possible risks of injury or risks to the machine/other objects
	<b>PROHIBITED</b>	Indicates an action that is not permitted
	<b>NOTE</b>	Highlights tips and information for you

### SLIDING DOOR ELEMENTS

-  The panel weight must not exceed the maximum lifting capacity of wheel hangers.
-  No change should be made nor intervention in the basic elements of sliding door system by unauthorised personnel.
-  Only trained personnel must be involved with installation and operation. If the system is not installed correctly, the door will not operate smoothly, and or may cause injury.
-  Door stop .X01 is not intended for door stopping, but only as a track stop and safety device during installation process. When the door is in service, a wall-fixed door stop .X02 must be positioned at the centre of door gravity to stop it. Two wall-fixed stops .X02 is also an option.
-  Do not try to use this product for any other purposes than the one described in this manual.
-  Do not use the parts for applications that are out of specification.

### PERSONAL SAFETY

-  People involved in the installation process should always wear protective clothing.
-  Never put your hand inside the track during operation.

### DISPOSAL

Dispose in accordance with local, state and national regulations.

### GENERAL RULES

- ✓ Once the installation has been completed, make sure to check that the finished product is safe and well-functioning.
- ✓ Use two wheel hangers per door panel.

Wall requirements and fixings:

- ✓ The substructure /wall must be level and vertical and able to bear permanent loads.
- ✓ Depending on the door weight and the substructure/wall , fixings must be sufficiently dimensioned.

# 5 INSPECTION AND MAINTENANCE Schedule

The first inspection should be done one month after the sliding door's installation.

At that time, the following should be checked:

- ✓ Horizontal and vertical alignment of the track profile must be checked.
- ✓ All the elements of the sliding door have to be inspected for any unusual wear-out.
- ✓ All the bolts and nuts should be properly tightened.
- ✓ All the track end stops should be correctly placed.
- ✓ All splice joints have to be aligned correctly.
- ✓ All the wheel hangers have to roll smoothly.

Even "NIKO®" sliding door systems do not require any special maintenance, periodic checks should be done. These checks combined with proper installation increase the system's lifetime.

A check and maintenance table appears below:

DOOR ELEMENT	EVERY 3 MONTHS	EVERY 6 MONTHS	ANNUALLY
TRACK	VISUAL INSPECTION (OPERATOR)		CHECK FOR CORROSION OR SIGNS OF DEFORMITY. CLEAN INSIDE THE TRACK (MAINTENANCE PERSONNEL)
SPLICE JOINT	VISUAL INSPECTION FOR HORIZONTAL AND VERTICAL ALIGNMENT (OPERATOR)		CHECK ALL BOLTS ARE TIGHTENED PROPERLY (MAINTENANCE PERSONNEL)
SUPPORT BRACKETS	VISUAL INSPECTION FOR ANY MOVEMENT (OPERATOR)		CHECK ALL BOLTS ARE TIGHTENED PROPERLY (MAINTENANCE PERSONNEL)
WHEEL HANGERS	CHECK FOR SMOOTH OPERATION AND MOVEMENT. CHECK ALL THE BOLTS AND NUTS ARE TIGHTENED PROPERLY. (OPERATOR)	1) CHECK FOR CORROSION IN ALL MOVING PARTS 2) CHECK ALL THE BOLTS AND NUTS ARE TIGHTENED PROPERLY (MAINTENANCE PERSONNEL)	UNINSTALL ALL THE WHEEL HANGERS. CHECK FOR UNUSUAL WEAR OR CORROSION. ESPECIALLY CHECK THE SMOOTH OPERATION OF THE BEARINGS AND THAT THE BOLTS AND THE NUTS ARE PROPERLY TIGHTENED. (MAINTENANCE PERSONNEL)
TRACK END STOP	VISUAL INSPECTION FOR ANY MOVEMENT (OPERATOR)		CHECK ALL BOLTS ARE TIGHTENED PROPERLY AND FOR ANY DEFORMITY (MAINTENANCE PERSONNEL)

Make sure to test the screws for slack at regular intervals.

(1 month after first usage, half year and then one time every year is recommended).

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, typical of notebook paper. There are no margins, text, or other markings on the page.

## TERMS AND CONDITIONS FOR THE SALE OF GOODS

### § 1.Preamble

1.These Standard Terms and Conditions for the sale of export Goods shall exclusively apply, save as varied by express agreement accepted in writing by both parties. 2.The offer, order acknowledgement, order acceptance or sale of any products covered herein is conditioned upon the terms contained in this instrument. Any conditional or different terms proposed by the buyer are objected to and will not be binding upon the seller unless assented in writing by the seller. Our Terms and Conditions apply exclusively also in the case of goods being delivered without reservation to the buyer despite our full awareness of contradicting or varying terms and conditions of the buyer.3.These conditions shall govern any future individual contract of sale between the seller and the buyer to the exclusion of any other terms and conditions subject to which any such quotation is accepted or purported to be accepted, or any such order is made or purported to be made, by the buyer. 4.Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document of information issued by the seller shall be subject to correction without any liability on the part of the seller. 5.The provisions of these Standard Terms and Conditions extend to standard contract conditions which are used in a contract with a merchant in the course of business only and apply only to companies, legal persons under public law or public special assets.

### § 2.Orders and Specifications

1.No order submitted by the buyer shall be deemed to be accepted by the seller unless and until confirmed in writing by the seller or the seller's representative within 2 weeks after submittal.2.The quantity and description of and any specification for the goods shall be those set out in the seller's quotation or the buyer's order.3.Any such specification, sales literature, quotation etc. shall be strictly confidential and must not be made available to third parties. 4.The buyer shall be responsible for the seller for ensuring the accuracy of the terms of any order submitted by the buyer, and for giving the seller any necessary information relating to the goods within a sufficient time to enable the seller to perform the contract in accordance with its terms.5.If the goods are to be manufactured or any process is to be applied to the goods by the seller in accordance with the specification submitted by the buyer, the buyer shall indemnify the seller against all loss, damages, costs and expenses awarded against or incurred by the seller in connection with infringement of any patent, copyright, design, trade mark or other industrial or intellectual property rights of any other person which results from the seller's use of the buyer's specification.6.The seller reserves the right to make any changes in the specification of the goods which are required to conform with any applicable statutory requirements or, where the goods are to be supplied to the seller's specification, which do not materially affect their quality or performance.

### § 3.Price of the Goods

1.The price of the goods shall be the seller's quoted price or, where no price has been quoted the price listed in the seller's published price list current at the date of acceptance of the order. 2.The seller reserves the right, by giving notice to the buyer at any time before delivery, to increase the price of the goods to reflect increase in the cost to the seller which is due to any factor beyond the control of the seller (such as foreign exchange fluctuation, currency regulation, alteration of duties, significant increase in the cost of materials or other costs of manufacture) or any change in delivery dates. 3.Except as otherwise stated under the terms of any quotation or in any price list of the seller, and unless otherwise agreed in writing between the buyer and the seller, all prices are given by the seller on an ex works basis, and where the seller agrees to deliver the goods otherwise than at the seller's premises, the buyer shall be liable to pay sellers charges for transport.4.The seller bears the cost of the usual packaging; charges for special packaging will be borne by the buyer 5.On buyers request, the seller will insure the goods at the expense of the buyer.6.Prices are exclusive of VAT, which must then be paid to the seller additionally.

### § 4.Terms of Payment / Prepayments

1.The buyer shall pay the price of the goods immediately upon receipt of invoice, unless a payment deadline is granted in the invoice.2.Payment shall be effected by inter bank payment transaction only; no cheque or bill of exchange will be considered as fulfillment of the payment obligation.3.It may be agreed between the parties that the buyer has to deliver a letter of credit issued by his bank (or any bank acceptable to the seller). In this individual case it is assumed that any letter of credit will be issued in accordance with the Uniform Customs and Practice for Documentary Credits, 1993 Revision; ICC Publication No. 500. 4.If the buyer fails to make any payment on the due date then, without any prejudice to any other right or remedy available to the seller, the seller shall at his discretion be entitled to:

- cancel the contract or suspend any further deliveries to the purchaser; or
- charge the buyer interest on the amount unpaid, at the rate of 4 per cent per annum above Federal Reserve Bank Rate/Bundesbank Discount Rate from then being valid, until payment in full is made. The buyer shall be entitled to prove that the delay of payment caused no or little damage only.

5.Advancements, prepayments and installments paid by the buyer to the seller regarding customized goods or goods which empirically have a rare demand are not refundable by the seller. 6.Payments will first be applied to accumulated costs, then to interest and then to the oldest main demand.

### § 5.Delivery

1.Delivery of the goods shall be made by the buyer collecting the goods at the seller's premises at any time after the seller has notified the buyer that the goods are ready for collection or, if some other place for delivery is agreed by the seller, by the seller delivering the goods to that place.2.If a fixed time for delivery is provided for in the contract, and the seller fails to deliver within such time or any extension thereof granted, the buyer shall be entitled, on giving notice in writing to the seller within a reasonable time, to claim a reduction of 0,5 % per week (and up to a maximum of 5%) of the price payable under the contract, unless it can be reasonably concluded from the circumstances of the particular case that the buyer has suffered no loss. This limit shall not apply if the business had to be settled on a fixed date or if the delay was caused negligently or intentionally by the seller, his agents or representatives or if there is any future breach of any essential contractual obligation.3.If for any reason whatever the seller fails within such time to effect delivery, the buyer shall be entitled by notice in writing to the seller to fix a deadline after the expiry of which the buyer shall be entitled to terminate the contract. After the expiry of the above mentioned fix deadline the buyer may also recover from the seller any loss suffered by the buyer by reason of the failure of the seller.4.If the buyer fails to accept delivery on due date, he shall nevertheless make any payment conditional on delivery as if the goods had been delivered. The seller shall arrange for the storage of the goods at the risk and cost of the buyer. If required by the buyer the seller shall insure the goods at the cost of the buyer.

### § 6.Transfer of Risk

Risk of damage to or loss of the goods shall pass to the purchaser as follows:

- in the case of goods to be delivered otherwise than at the seller's premises, at the time of the delivery or, if the buyer wrongfully fails to take delivery of the goods, the time when the seller has tendered delivery of the goods;
  - in the case of goods to be delivered at the seller's premises ["ex works", Incoterms 2000] at that time when the seller notifies the purchaser that the goods are available for collection.
- § 7.Risk of damage to or loss of the goods shall pass to the purchaser as follows:**
- in the case of goods to be delivered otherwise than at the seller's premises, at the time of the delivery or, if the buyer wrongfully fails to take delivery of the goods, the time when the seller has tendered delivery of the goods;
  - in the case of goods to be delivered at the seller's premises ["ex works", Incoterms 2000] at that time when the seller notifies the purchaser that the goods are available for collection.

1.Notwithstanding delivery and the passing of risk in the Goods, or any other provision of these conditions, the property in the goods shall not pass to the buyer until the seller has received payment in full of the price of the goods and all other goods agreed to be sold by the seller to the buyer for which payment is then due.2.After termination of the contract the seller shall have absolute authority to retake, sell or otherwise deal with or dispose of all or any part of the goods.3.Until such time as the property in the goods passes to the buyer, the buyer shall hold the goods as the seller's fiduciary agent, and shall keep the goods properly stored, protected and insured.Until that time the buyer shall be entitled to resell or use the goods in the ordinary course of business, but shall account to the seller for the proceeds of sale or otherwise of the goods including insurance proceeds, and shall keep all such proceeds separate from any moneys or properties of the buyer and third parties.4.The buyer is only entitled to further disposal or processing in consideration of the following conditions:

- The buyer may only dispose of or process the reserved merchandise in a proper business office and only if there is no lasting decline in his financial circumstances.
- The buyer herewith transfers the demand with all secondary rights resulting from sales of the reserved merchandise -including possible balance demands- to the seller.
- If the goods are processed or reshaped by the buyer and if processing is done with goods that the seller has no property in, the seller shall become co-owner of the goods. The same shall apply if the seller's goods are completely reshaped and mixed with other goods.
- If the buyer has sold the demand within the bounds of a real factoring, he will transfer the newly resulting demand of the factor to the retailer and will forward him a share of his sales proceeds amounting to the value of the seller's right on the merchandise. The buyer is obligated to reveal the transfer to the factor if he is more than 10 days overdue with the payment of an invoice or if his financial circumstances decline substantially. The seller accepts this transfer.

5.If third parties take up steps to pledge or otherwise dispose of the goods, the buyer shall immediately notify the seller in order to enable the seller to seek a court injunction. If the buyer fails to do so in due time he will be held liable for any damages caused.6.The seller shall on demand of the buyer release any part of the collateral if the value of the collateral held in favour of the seller's decision to release those parts of the collateral suitable for him.

### § 8.Warranties, exclusion clauses and limitation period

1.The buyer shall examine the goods as required and raise any objections within 8 days after receiving the goods. 2.The seller warrants that all items delivered under this agreement will be free from defects in material and workmanship, conform to applicable specifications, and, to the extent that detailed designs have not been furnished by the buyer, will be free from design defects and suitable for the purposes intended by the buyer.3.The seller shall not be liable for the normal process of wearing down during use of the goods and goods being fit for a particular purpose unless otherwise agreed upon, to which the buyer intends to put them. 4.The above warranty is given by the seller subject to the following conditions:

- the seller shall not be liable in respect of any defect in the goods arising from any design or specification supplied by the buyer;
- the seller shall not be liable under the above warranty if the total price for the goods has not been paid by the due date for payment;
- the above warranty does not extend to parts, materials or equipment manufactured by or on behalf of the buyer unless such warranty is given by the manufacturer to the seller.

5.This warranty does not cover defects in or damage to the products which are due to improper installation or maintenance, misuse, neglect or any cause other than ordinary application.6.Any discharge from liability will be void if a defect results from negligent or intentional breach of contract on the part of the seller. The same applies if the seller may be held responsible for the breach of any further essential contractual obligation.7.The buyer is entitled to demand the delivery of any substitute goods, or repair.8.Where any valid claim in respect of any goods which is based on any defect in the quality or condition of the goods or their failure to meet specification is notified to the seller in accordance with these conditions, the seller shall be entitled at the seller's sole discretion to either replace the goods free of charge or repair the goods. If the seller is neither ready nor able to either repair or replace the goods the buyer shall be entitled at the buyer's sole discretion to claim for a reduction of price or a cancellation of the contract.9.All the purchaser's demands concerning defects will lapse within a limitation period of 1 year as of the legal lapse beginning.

### § 9.Miscellaneous clauses

1.The seller reserves the right to improve or modify any of the products without prior notice, provided that such improvement or modification shall not affect the form and function of the product. 2.This agreement supersedes and invalidates all other commitments and warranties relating to the subject matter hereof which may have been made by the parties either orally or in writing prior to the date hereof, and which shall become null and void from the date of the agreement is signed.3.This agreement shall not be assigned or transferred by either party except with written consent of the other. 4.Each party shall be responsible for all ist legal, accountancy or other costs and expenses incurred in the performance of ist obligation hereunder.

### § 10.Choice of law: Place of jurisdiction

1.This agreement is subject to the law applicable in the country in which the seller has its registered office. Both parties consent to the exclusive jurisdiction of the court at the registered office of the seller. 2.The seller has the right to sue at the court of competent jurisdiction for the buyer or any other court which may have jurisdiction under national or international law.

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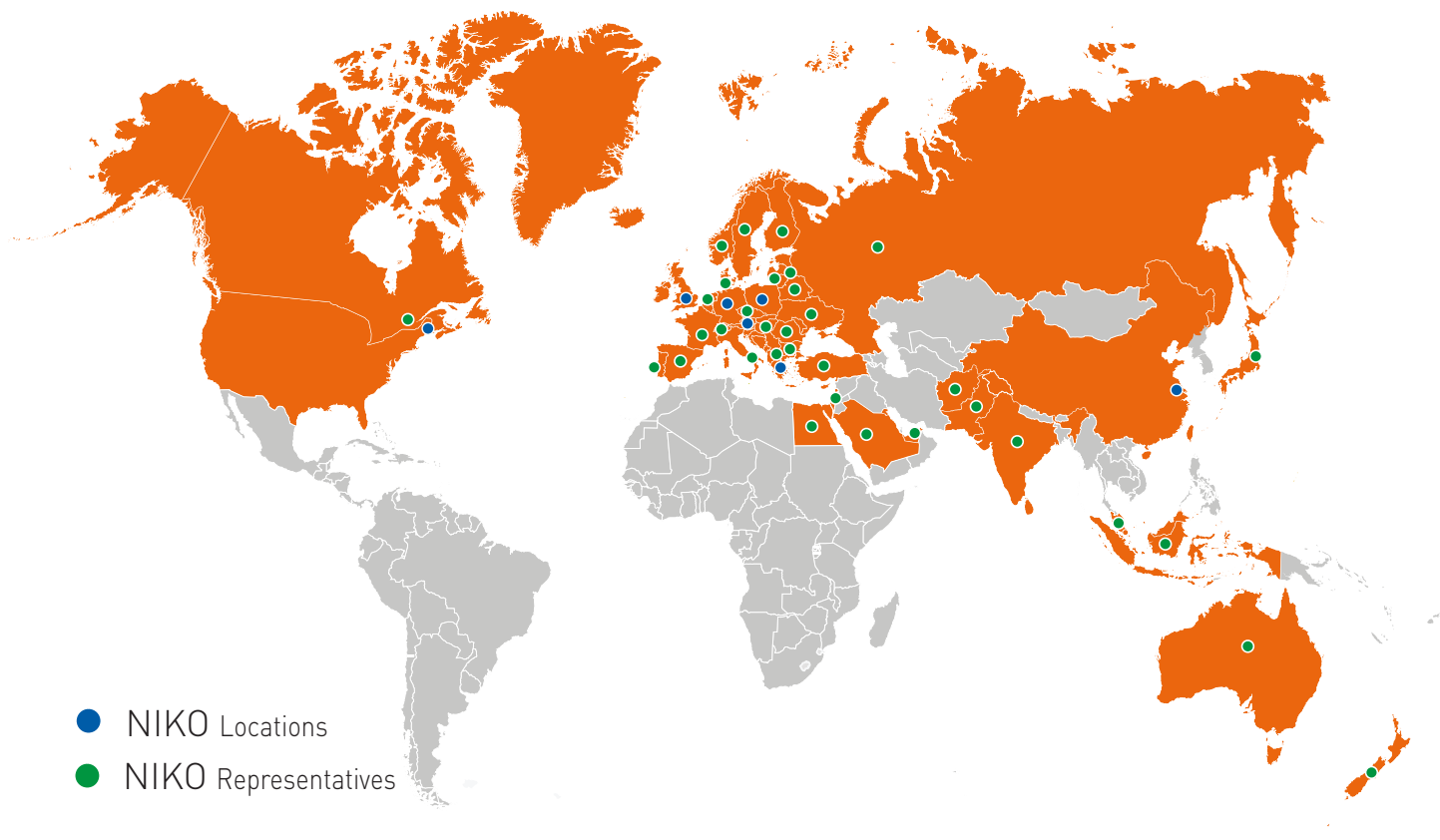
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