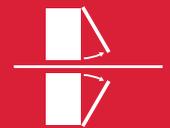




KIARO OPENING SYSTEM



OPENING
SYSTEMS FOR
LIFT UP AND
DROP DOWN
DOORS



KIARO

Kiario is an opening system for drop down doors with a concealed mechanism which allows to adjust the settings depending on door weight and dimension, thus enabling to manage a wide range of doors with only one reference.

As it is a two-handed mechanism, it can be installed both on right and left side. A high resistance technical wire grants a significant loading capacity together with minimal shapes and elegant design. Available in two finishes which respond to the current overriding trends in the furniture appliances industry.

It is conceived also to be installed with integrated led lighting.



PAT. PENDING

FEATURES AND BENEFITS

MINIMAL AND ELEGANT DESIGN: Wire opening system with reduced size and elegant shapes, becoming an element of design for the whole cabinet.

OPTIMIZED STOCK MANAGEMENT: One reference to cover a wide range of door weights and dimensions.

TWO-HANDED MECHANISM: The same mechanism can be installed both on right and left side.

EASY INSTALLATION: The opening system can be installed with an easy mounting of the lateral profile on the cabinet side and an easy fixation of the wire onto the door.

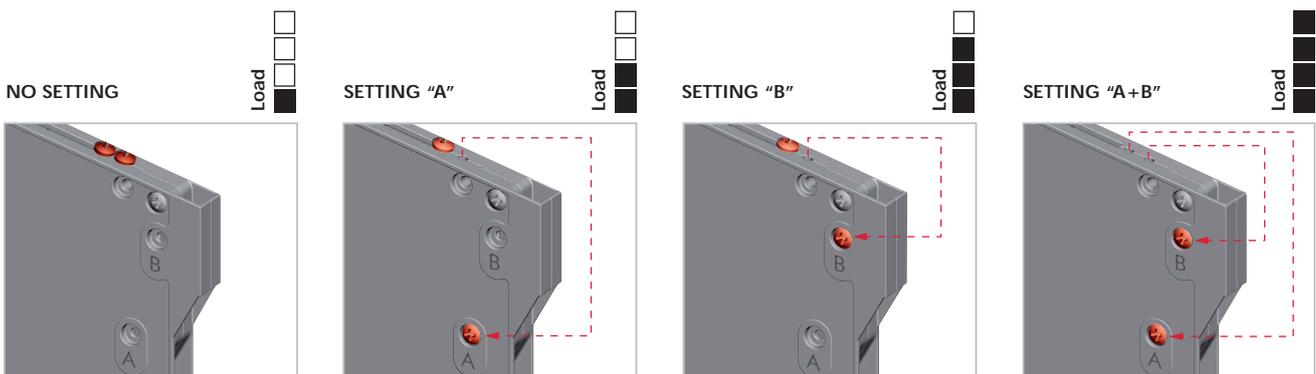
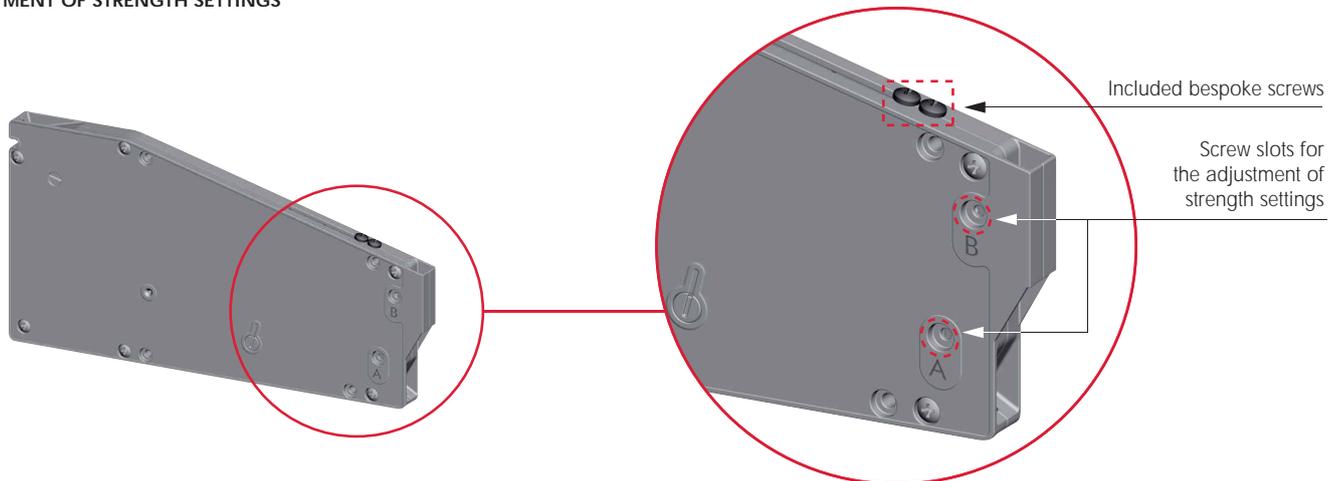
INTEGRATED LED LIGHTING: Available also with an integrated decorative led lighting which includes an innovative activation system.

HANDLELESS DOORS: Just one K PUSH TECH enables the door opening, with any door weight and size.

WIDE ADJUSTMENT: The mechanism allows a wide adjustment of the opening angle.

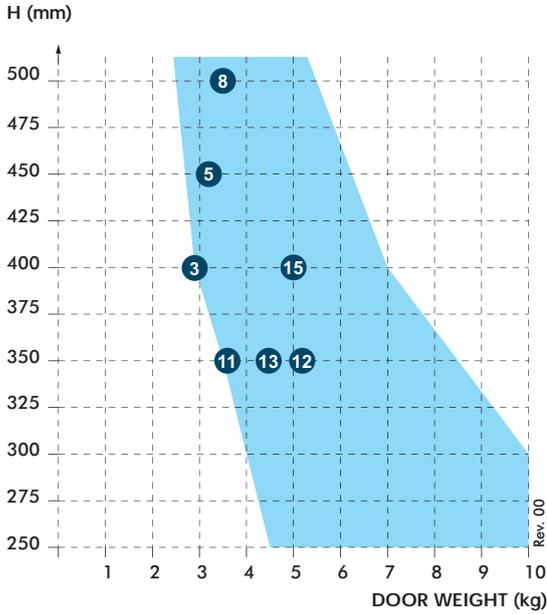


ADJUSTMENT OF STRENGTH SETTINGS

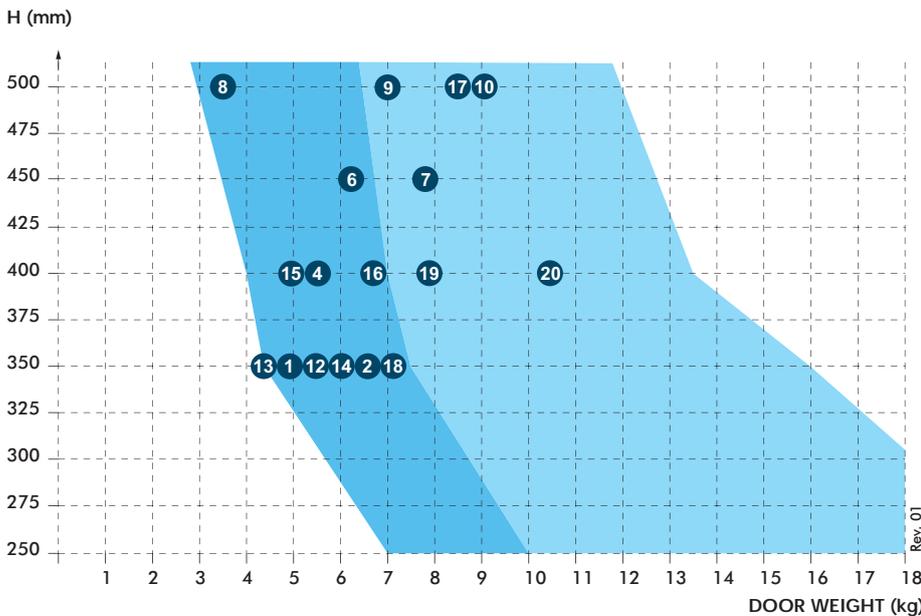




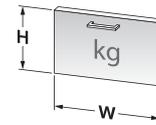
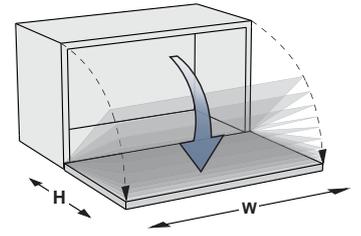
SOFT OPENING



1 mechanism
KIARO



1 mechanism 1 mechanism 2 mechanisms
KIARO + KIARO S KIARO



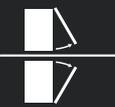
Door weight including the possible handle.

		H mm	W mm	Weight theoretical
1	Chipboard door thk 18mm	350	1200	4,9 kg
2	Chipboard door thk 18mm	350	1500	6,5 kg
3	Chipboard door thk 18mm	400	600	2,9 kg
4	Chipboard door thk 18mm	400	1200	5,8 kg
5	Chipboard door thk 18mm	450	600	3,2 kg
6	Chipboard door thk 18mm	450	1200	6,3 kg
7	Chipboard door thk 18mm	450	1500	7,9 kg
8	Chipboard door thk 18mm	500	600	3,5 kg
9	Chipboard door thk 18mm	500	1200	7,0 kg
10	Chipboard door thk 18mm	500	1500	9,1 kg
11	Chipboard door thk 25mm	350	600	3,5 kg
12	Chipboard door thk 25mm	350	900	5,2 kg
13	MDF door thk 18mm	350	900	4,4 kg
14	MDF door thk 18mm	350	1200	6,0 kg
15	MDF door thk 18mm	400	900	5,0 kg
16	MDF door thk 18mm	400	1200	6,8 kg
17	MDF door thk 18mm	500	1200	8,5 kg
18	Chipb. 18mm + glass 4mm	350	900	7,2 kg
19	Chipb. 18mm + glass 4mm	400	900	7,9 kg
20	Chipb. 18mm + glass 4mm	400	1200	10,4 kg

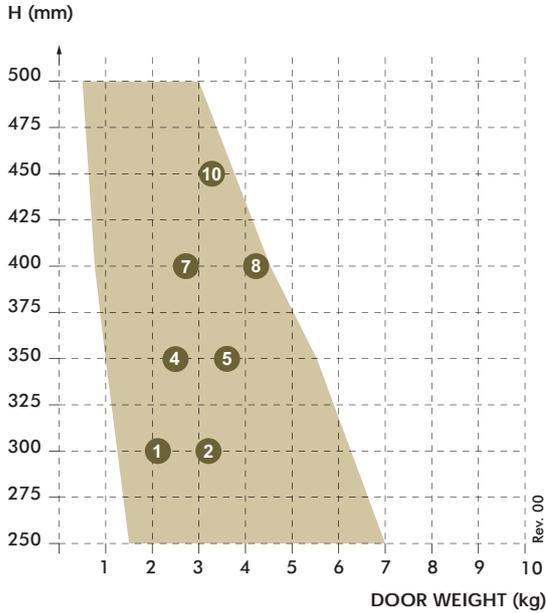
Weight considering: Chipboard 650 kg/m³ and MDF 780 kg/m³.

These are experimental results to be checked by the customer.

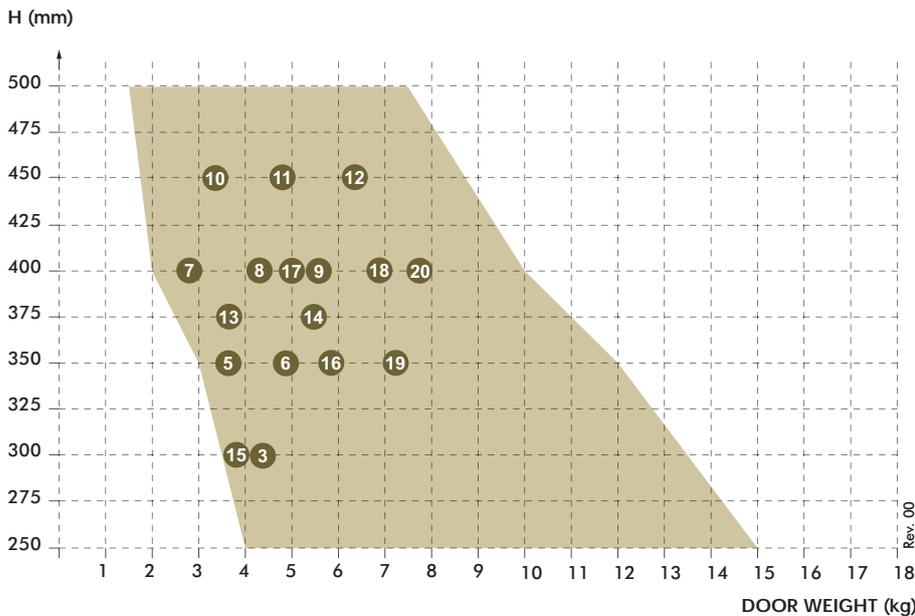
In accordance with the actual European regulation, we suggest where possible to use two KIARO mechanisms for each door. Our technical department is at your disposal to analyze further cases out of this chart.



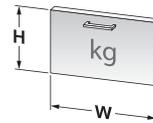
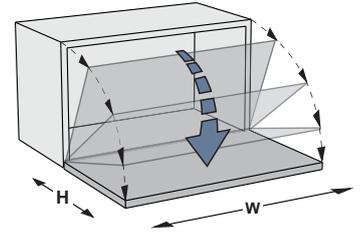
FRICITION OPENING



1 mechanism
KIARO S



2 mechanisms
KIARO S



Door weight including
the possible handle.

	H	W	Weight
	mm	mm	theoretical
1	Chipboard door thk 18mm	300 600	2,1 kg
2	Chipboard door thk 18mm	300 900	3,2 kg
3	Chipboard door thk 18mm	300 1200	4,2 kg
4	Chipboard door thk 18mm	350 600	2,5 kg
5	Chipboard door thk 18mm	350 900	3,7 kg
6	Chipboard door thk 18mm	350 1200	4,9 kg
7	Chipboard door thk 18mm	400 600	2,8 kg
8	Chipboard door thk 18mm	400 900	4,2 kg
9	Chipboard door thk 18mm	400 1200	5,6 kg
10	Chipboard door thk 18mm	450 600	3,2 kg
11	Chipboard door thk 18mm	450 900	4,8 kg
12	Chipboard door thk 18mm	450 1200	6,3 kg
13	Chipboard door thk 25mm	375 600	3,7 kg
14	Chipboard door thk 25mm	375 900	5,5 kg
15	MDF door thk 18mm	300 900	3,9 kg
16	MDF door thk 18mm	350 1200	5,9 kg
17	MDF door thk 18mm	400 900	5,0 kg
18	MDF door thk 18mm	400 1200	6,8 kg
19	Chipb. 18mm + glass 4mm	350 900	7,2 kg
20	Chipb. 18mm + glass 4mm	400 900	7,9 kg

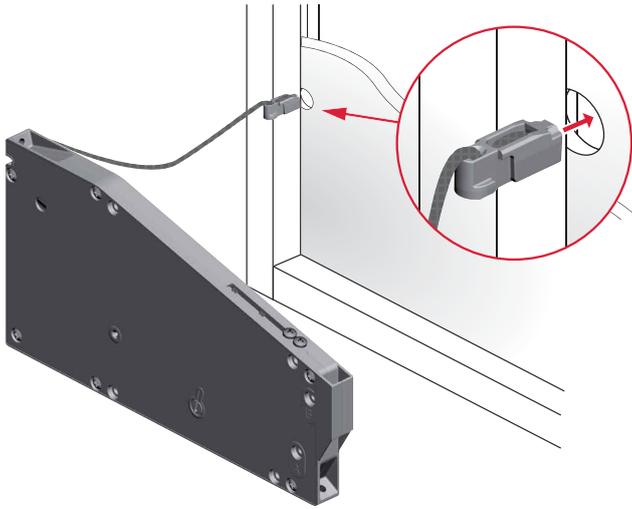
Weight considering: Chipboard 650 kg/m³ and MDF 780 kg/m³.

These are experimental results to be checked by the customer.

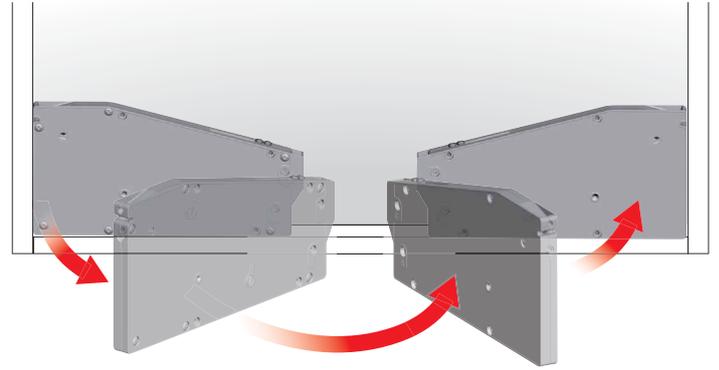
In accordance with the actual European regulation, we suggest where possible to use two KIARO mechanisms for each door. Our technical department is at your disposal to analyze further cases out of this chart.



MECHANISM INSTALLATION

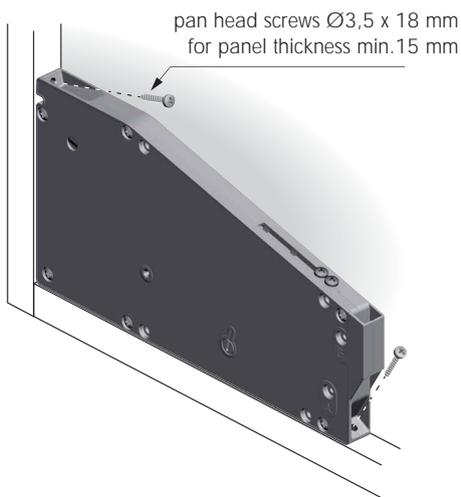


UNHANDLED MECHANISM

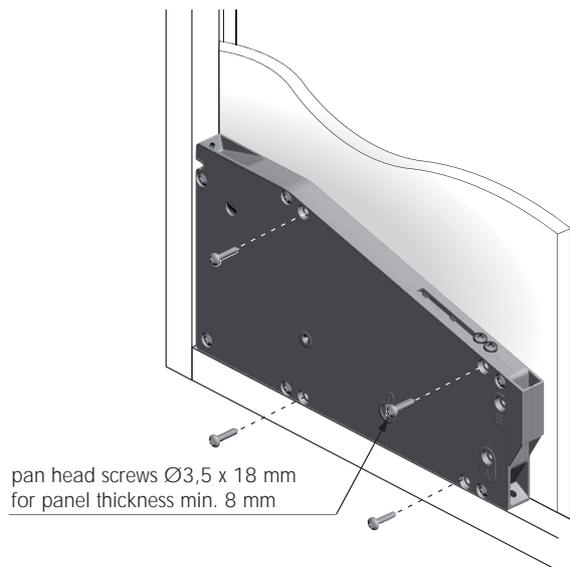


MECHANISM FIXING

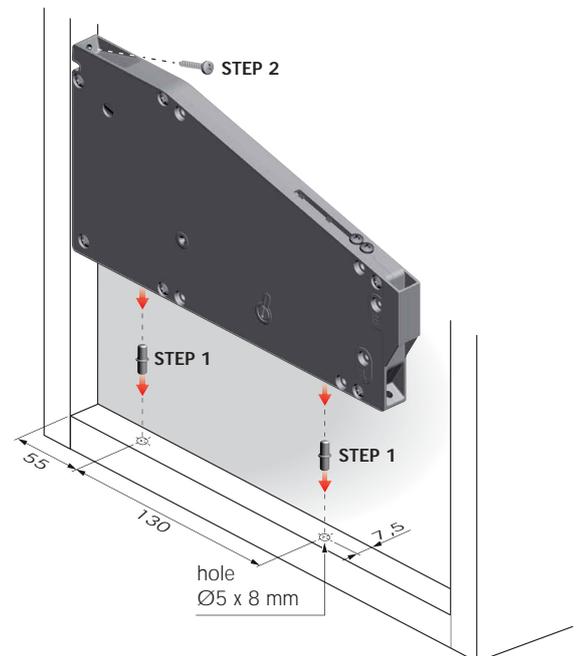
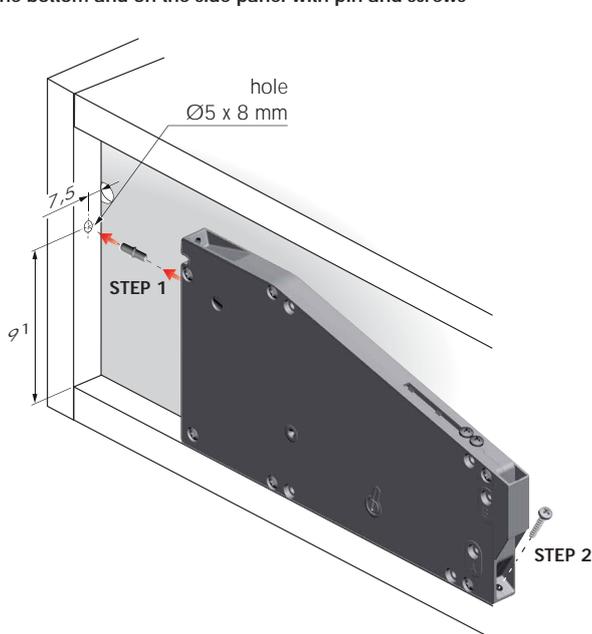
On the bottom and on the side panel with screws



On the back panel with screws

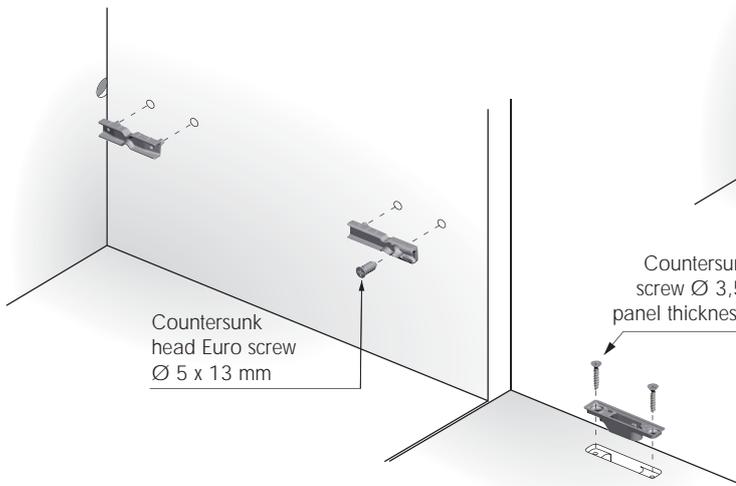


On the bottom and on the side panel with pin and screws

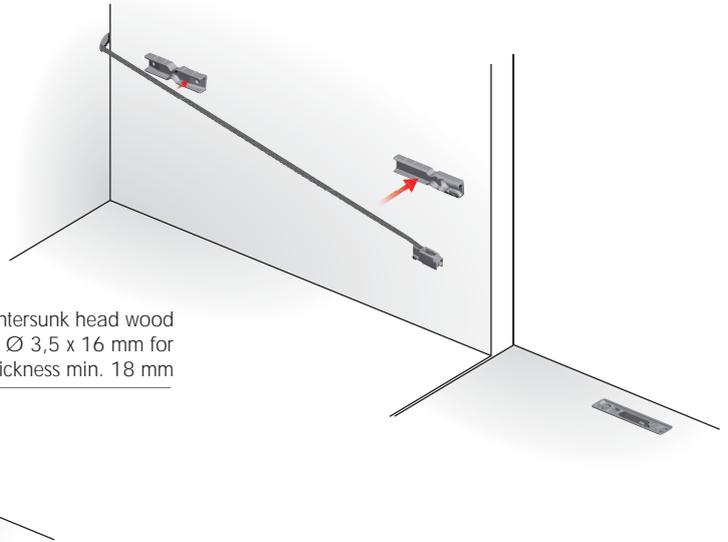




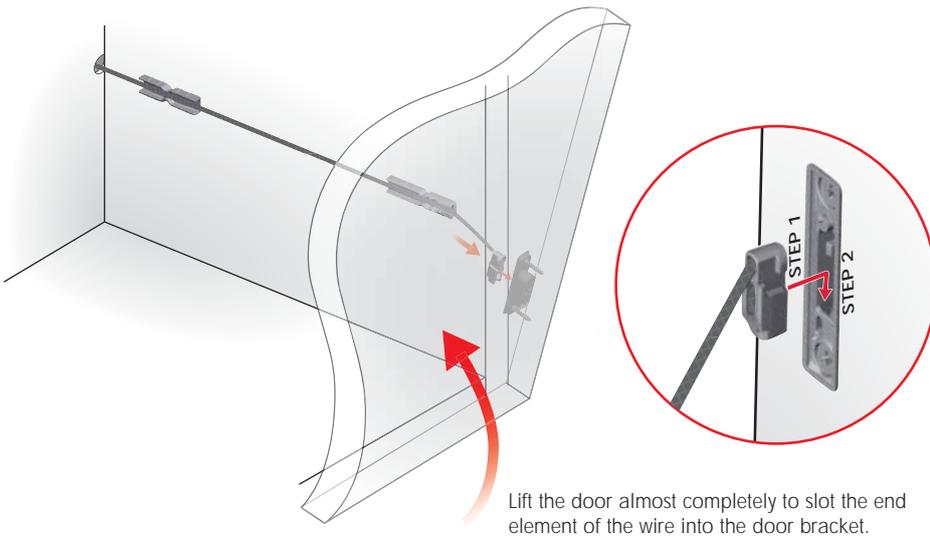
BRACKETS INSTALLATION



WIRE INSTALLATION



WIRE INSERTION ONTO THE DOOR BRACKET



STEP 1

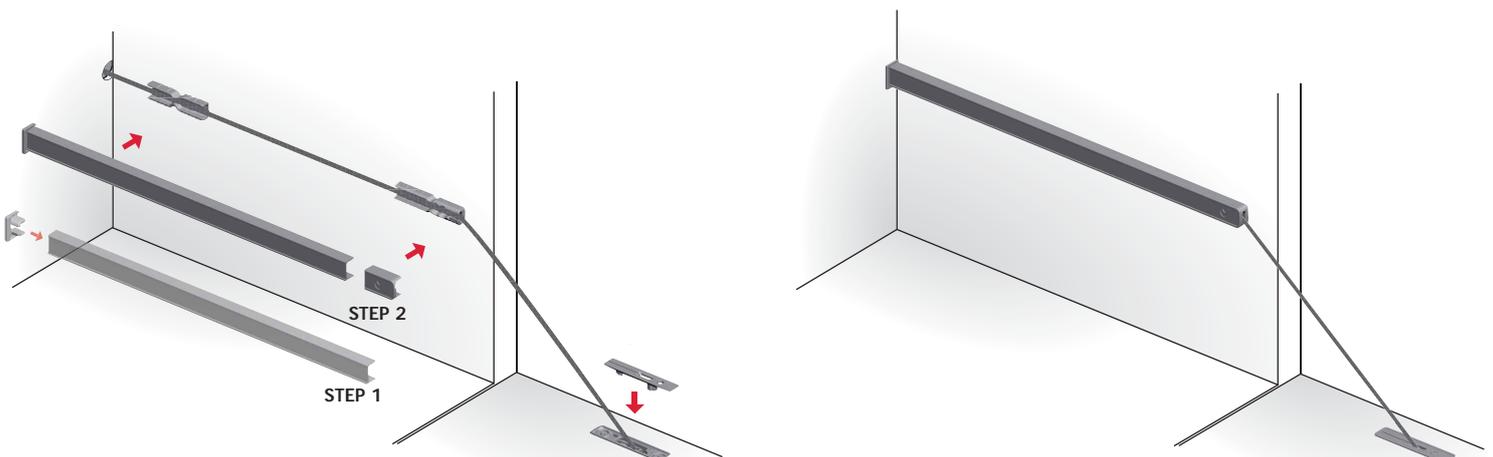


STEP 2



click

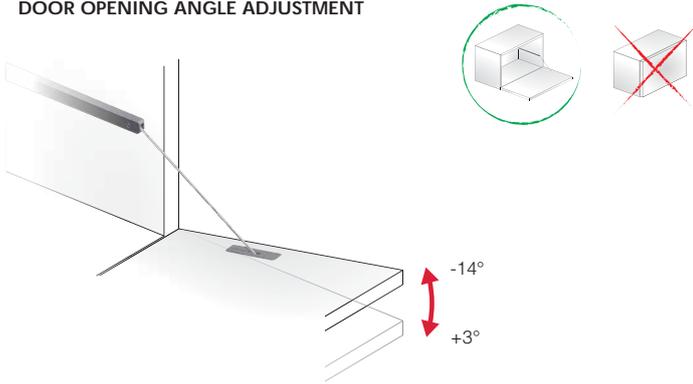
COVER CAP AND ALUMINIUM LATERAL PROFILE INSERTION



Place the cover cap on the door bracket before lifting the door.

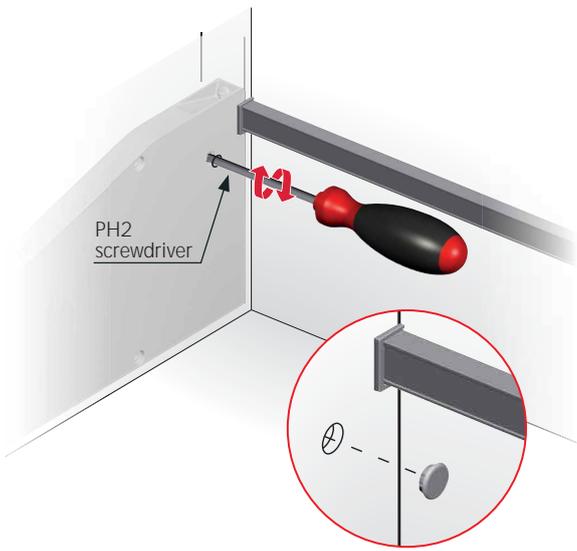


DOOR OPENING ANGLE ADJUSTMENT

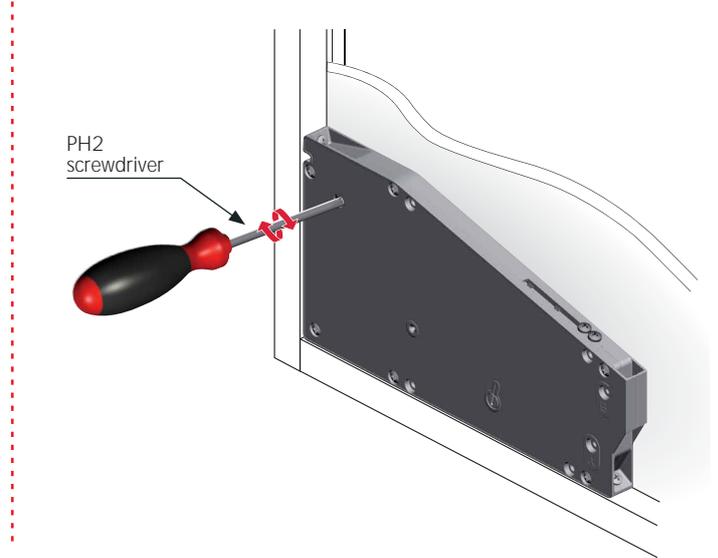


VERY IMPORTANT:
The opening angle adjustment can be carried out only with open door.

FROM THE INSIDE OF THE CABINET



FROM THE BACKSIDE OF THE CABINET

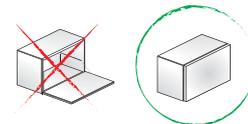


ADJUSTMENT OF STRENGTH SETTINGS

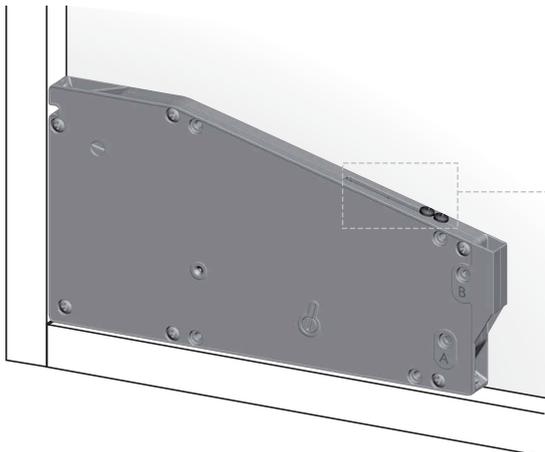
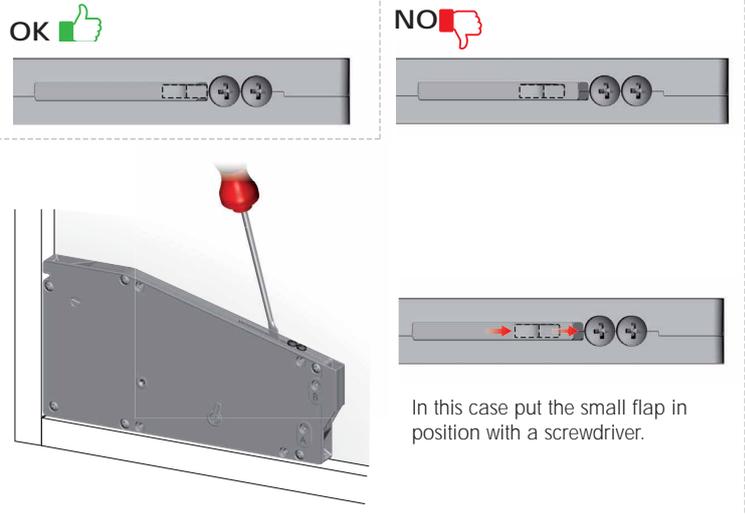
Possibility to adjust the settings of the mechanism also upon completed assembly.
For details refer to the related section.

VERY IMPORTANT:
Before proceeding, make sure:

- 1) The door is completely closed.



- 2) The mechanism is completely in position.



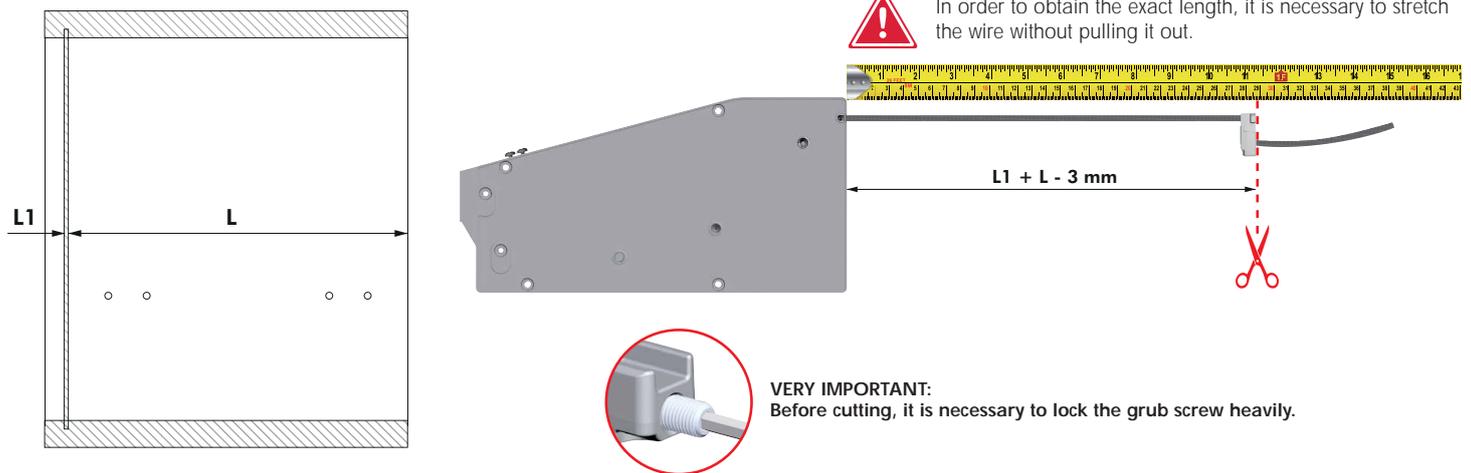


INSTRUCTIONS FOR WIRE CUTTING

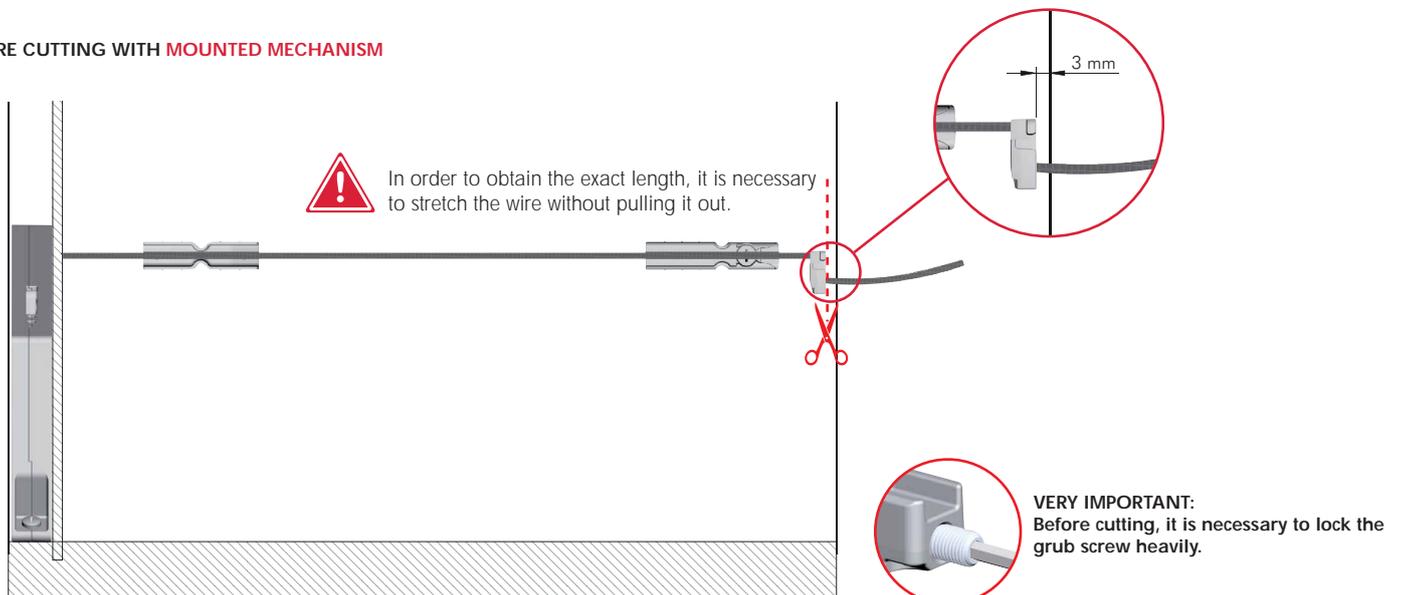
INSERTION OF THE WIRE INTO THE END PART AND LOCKING WITH M3 GRUB SCREW



WIRE CUTTING WITH UNMOUNTED MECHANISM

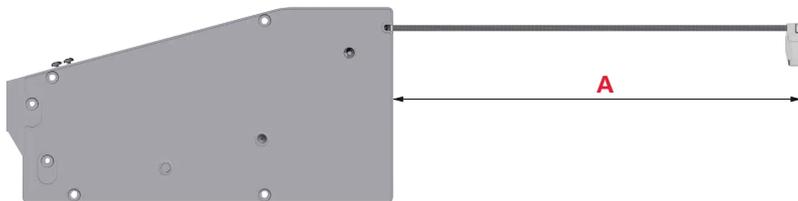
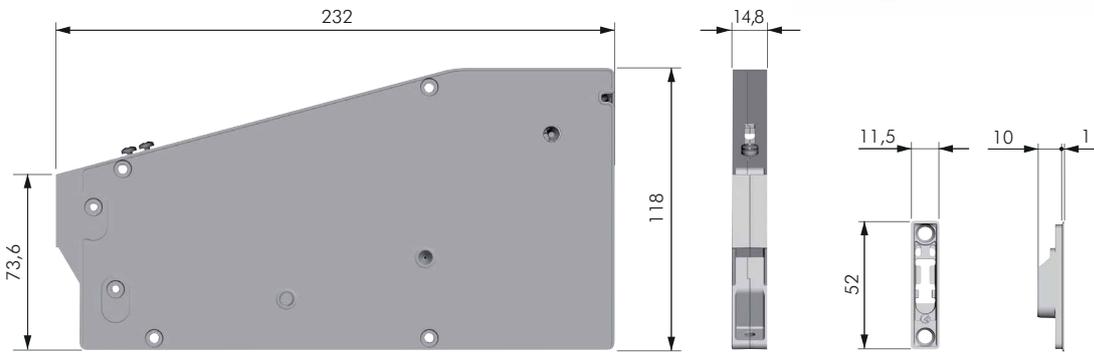
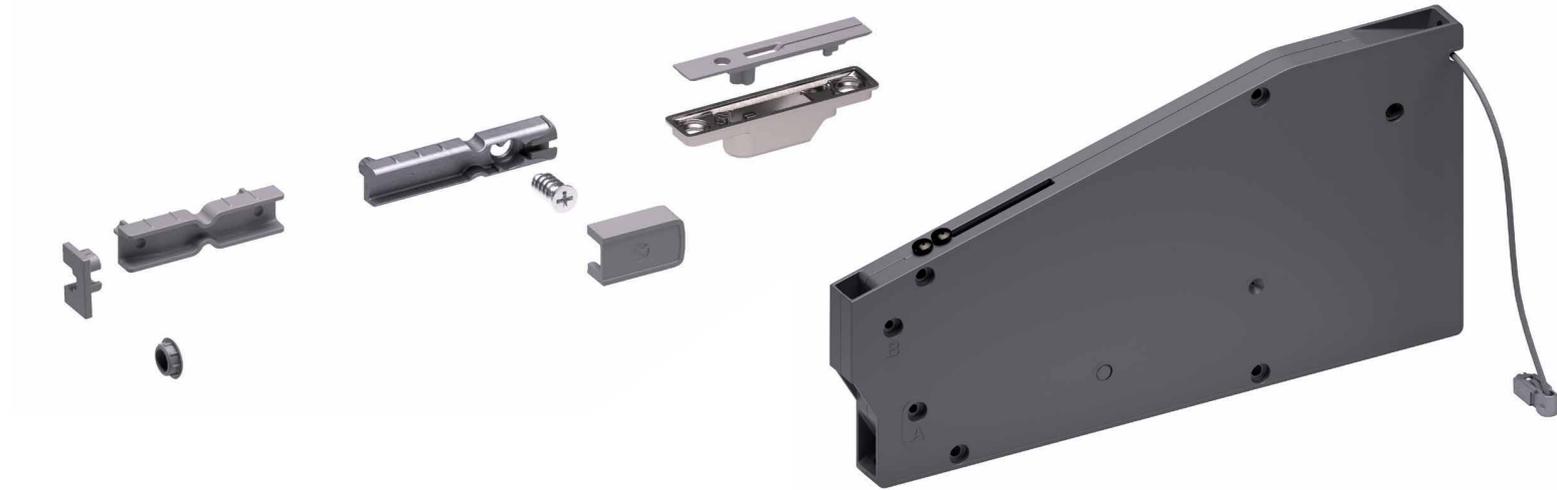


WIRE CUTTING WITH MOUNTED MECHANISM



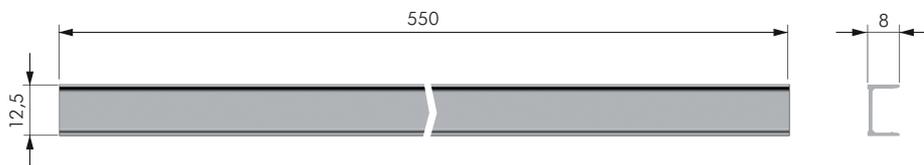


KIT MECHANISM KIARO or KIARO S (with door brackets)

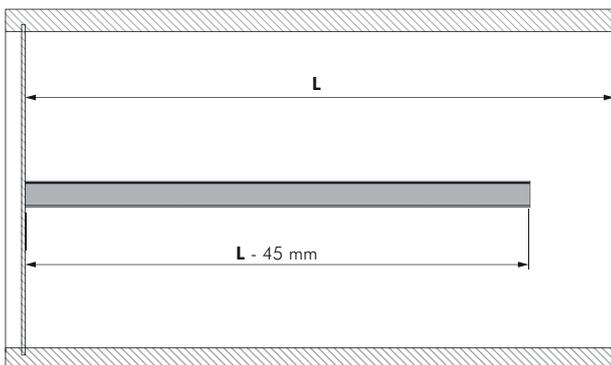


ZA	EP	ST	= 12 pcs.
			A (mm)
KIARO	46006000YA	YQ	600
KIARO S	46106000YA	YQ	

NOTE: Possibility to supply the wire with customized length (A).



CUT TO SIZE RULE:



AL	= 12 pcs.
46205500UT	FV

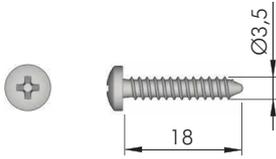
NOTE: Possibility to supply the aluminium profile with customized length.

Finishes matching between cover caps and alu. profiles:

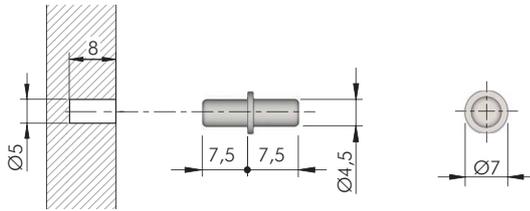
YA → UT
YQ → FV



ACCESSORIES FOR MECHANISM FIXING

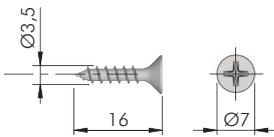


60103150ZN



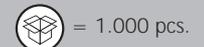
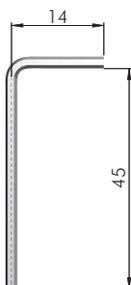
10101010ZN

ACCESSORY FOR DOOR BRACKET FIXING



60101390ZN

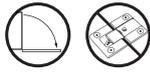
ACCESSORY FOR LOCKING THE GRUB SCREW



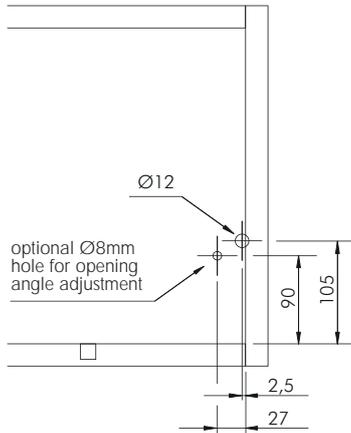
62501050ZN



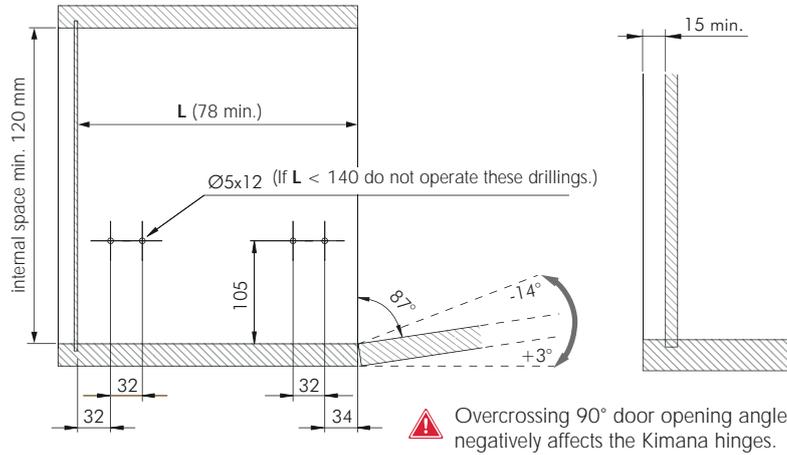
KIARO WITH KIMANA HINGE



BACK-PANEL DRILLING OPERATIONS

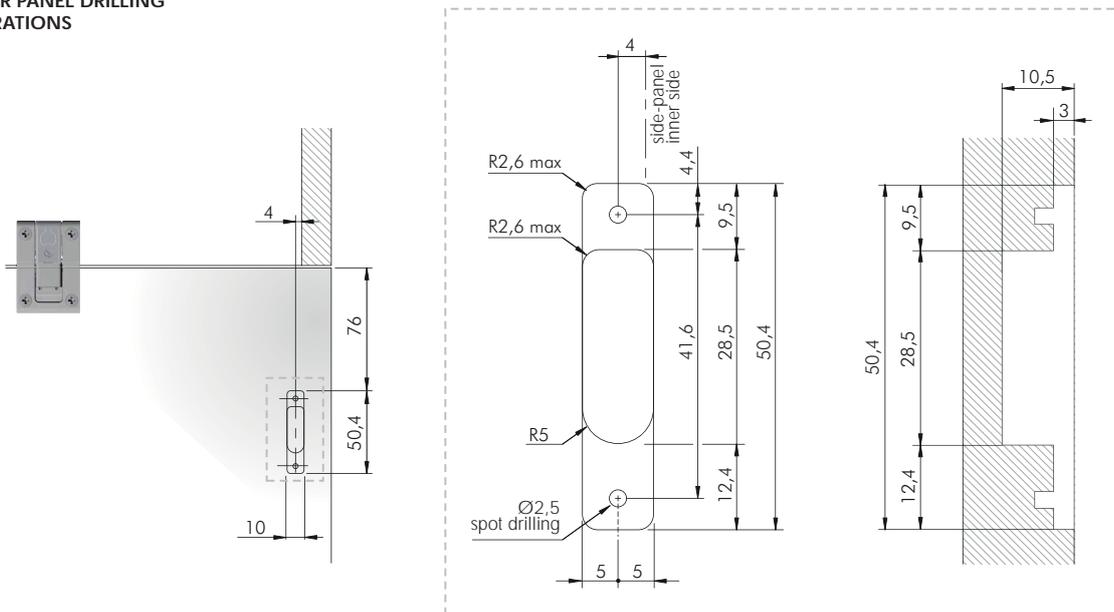


SIDE-PANEL DRILLING OPERATIONS



In case of door without handles it is recommended to use **K Push Tech with buffer**.

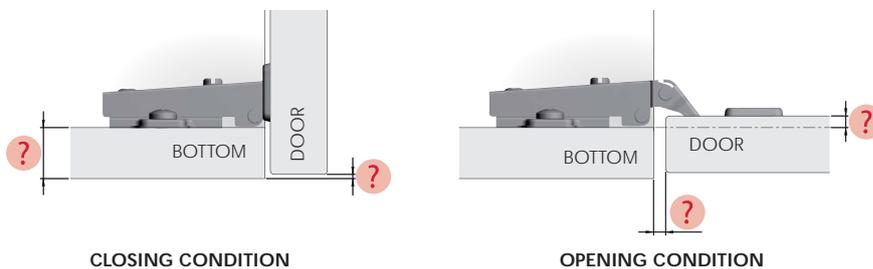
DOOR PANEL DRILLING OPERATIONS

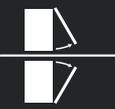


KIARO WITH STANDARD UNSPRUNG HINGES



In case the hinges to be installed are not KIMANA hinges, please contact our technical department to receive the correct drilling plan. It is necessary to indicate all the values requested in the following diagram:





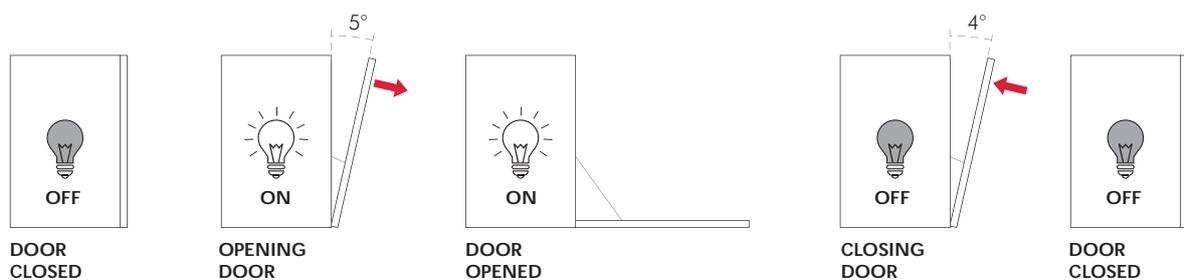
KIARO LED



The mechanism can be supplied with an integrated device operating as an on-off switch for the internal light, coordinated with the door opening and closing, adding a homely ambiance and a touch of luxury.

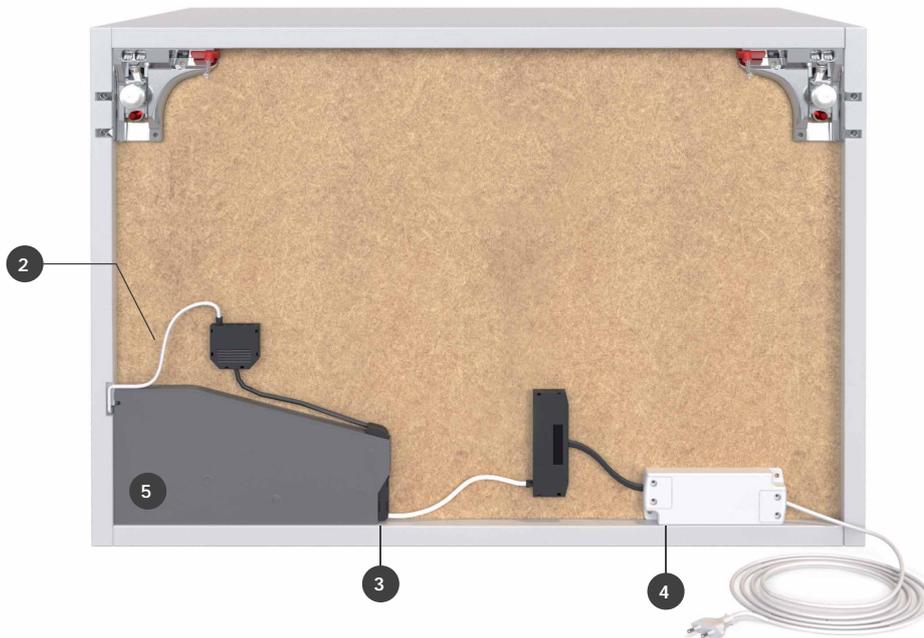
The lighting device of KIARO is to be installed on the concealed mechanism and can work either for the lateral profile with integrated LED strip or for other lighting appliances placed inside the cabinet.

Thanks to this bespoke device, it is no longer required to make special drilling operations to install visible opening detectors.





COMPONENTS FOR APPLICATIONS WITH 1 KIARO LED



1 1 x KIARO LED ALUMINIUM PROFILE (1 x COVER CAPS SET

2 1 x LED FLEXIBLE STRIP

3 1 x SENSOR FOR KIARO LED

4 1 X CHARGER

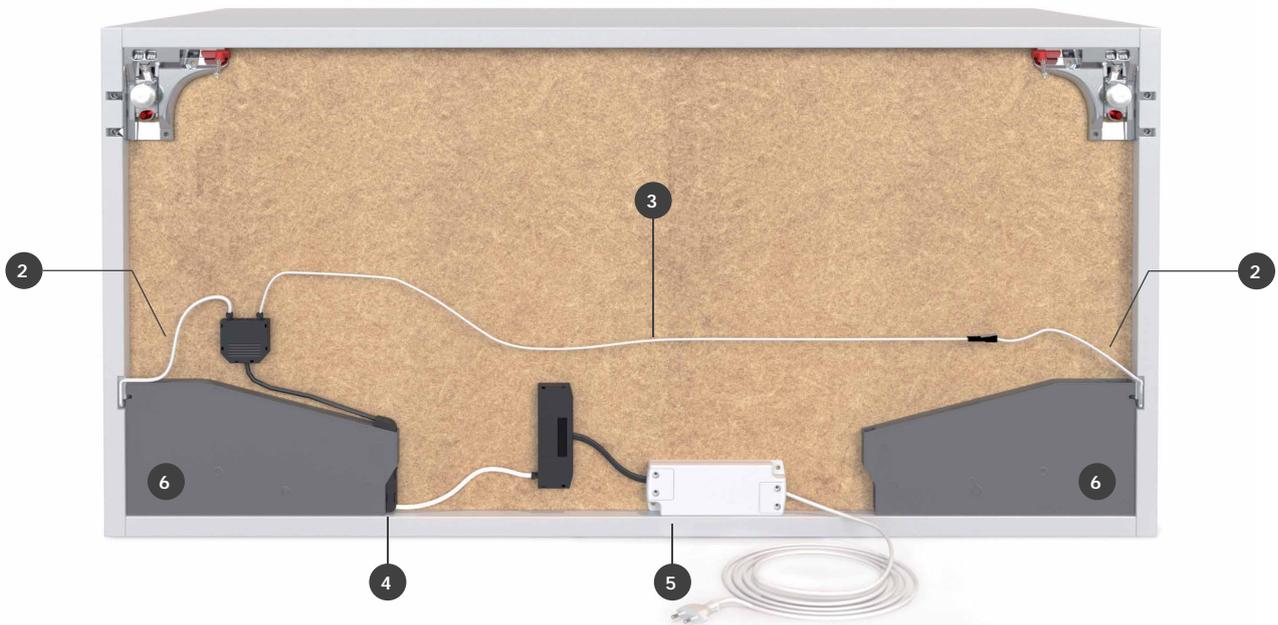
5 1 X MECHANISM KIARO or KIARO S (with door brackets)



For the correct mechanism settings please refer to the dedicated section.



COMPONENTS FOR APPLICATIONS WITH 2 KIARO LED



1 2 x KIARO LED ALUMINIUM PROFILE
1 x COVER CAPS SET

2 2 X LED FLEXIBLE STRIP

3 1 X EXTENSION CABLE

4 1 X SENSOR FOR KIARO LED

5 1 X CHARGER

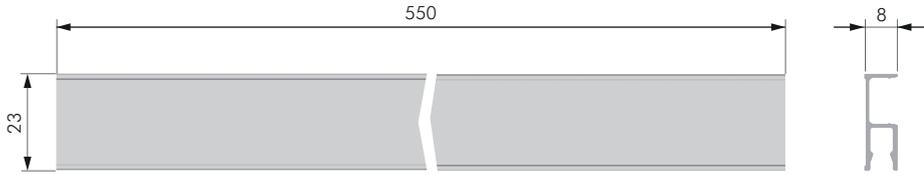
6 KIT MECHANISM KIARO or KIARO_S (with door brackets)



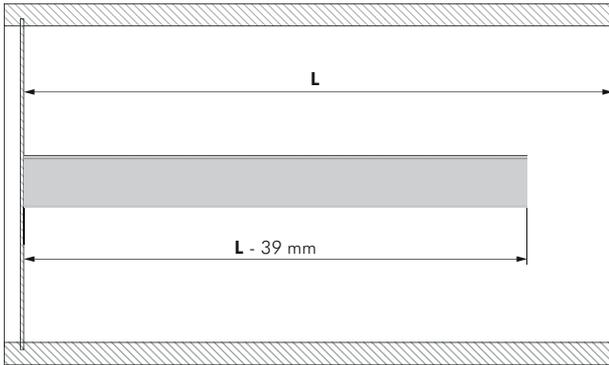
For the correct mechanism settings please refer to the dedicated section.



KIARO LED ALUMINIUM PROFILE



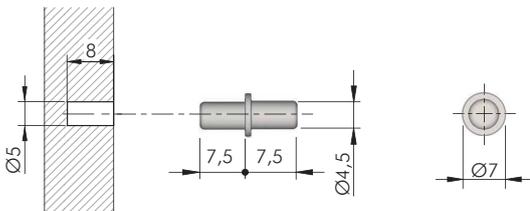
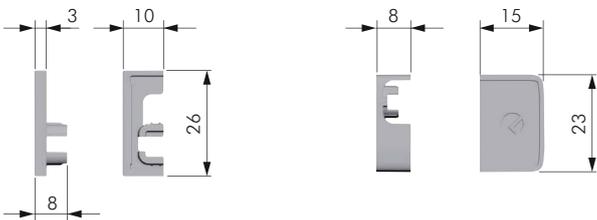
CUT TO SIZE RULE:



AL	= 12 pcs.
46505500UT	FV

NOTE: Possibility to supply the aluminium profile with customized length.

COVER CAPS SET

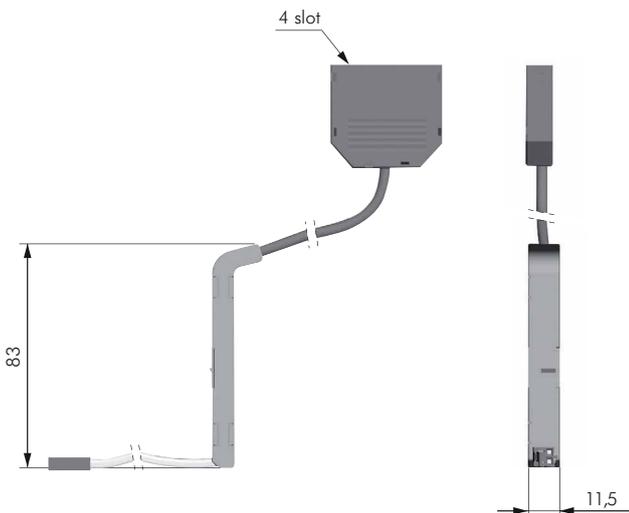


EP	= 12 pcs.
46303140EW	EE

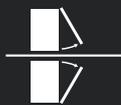
NOTE: Finishes matching between cover caps and alu. profiles:

EW → **UT**
EE → **FV**

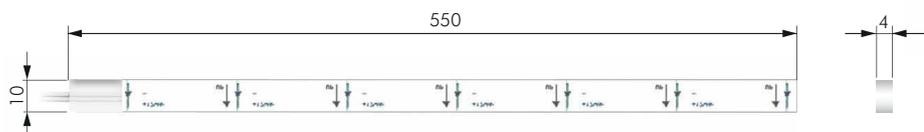
SENSOR FOR KIARO LED



Maximum output: 30 Watt with light 12Vdc 60 Watt with light 24Vdc	
	= 12 pcs.
4670600000	

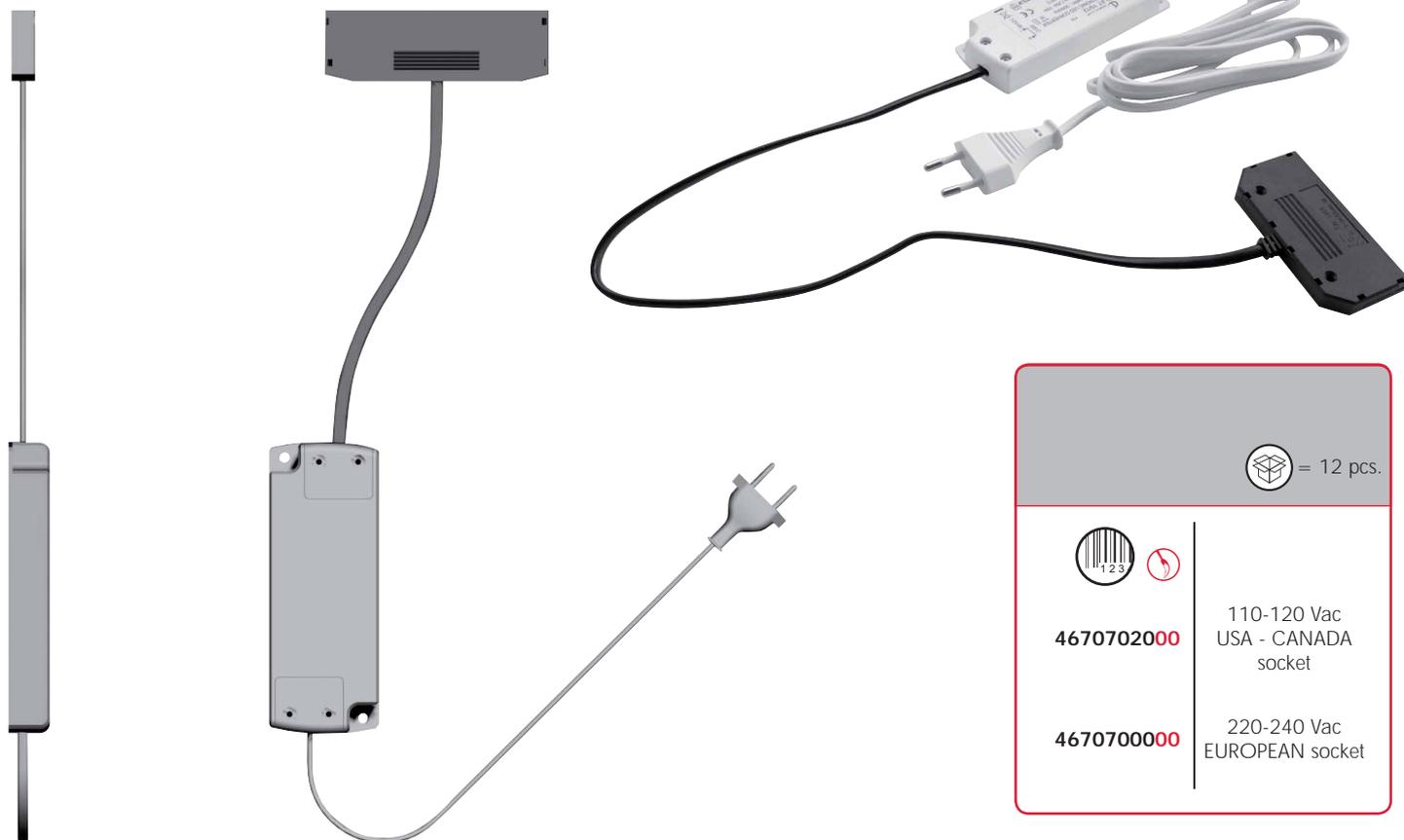


LED FLEXIBLE STRIP



= 12 pcs.	
 46601000AB	 LED Colour temperature 4000 K

CHARGER



= 12 pcs.	
 4670702000	 110-120 Vac USA - CANADA socket
4670700000	220-240 Vac EUROPEAN socket

The chargers images shown here are for illustrative purposes only.



EXTENSION CABLE



Length: 2000 mm

= 12 pcs.



4670601000

CUSTOMER LIGHTING CONNECTORS



Length: 150 mm
Male connector

= 12 pcs.



4670602000



Length: 150 mm
Female connector

= 12 pcs.

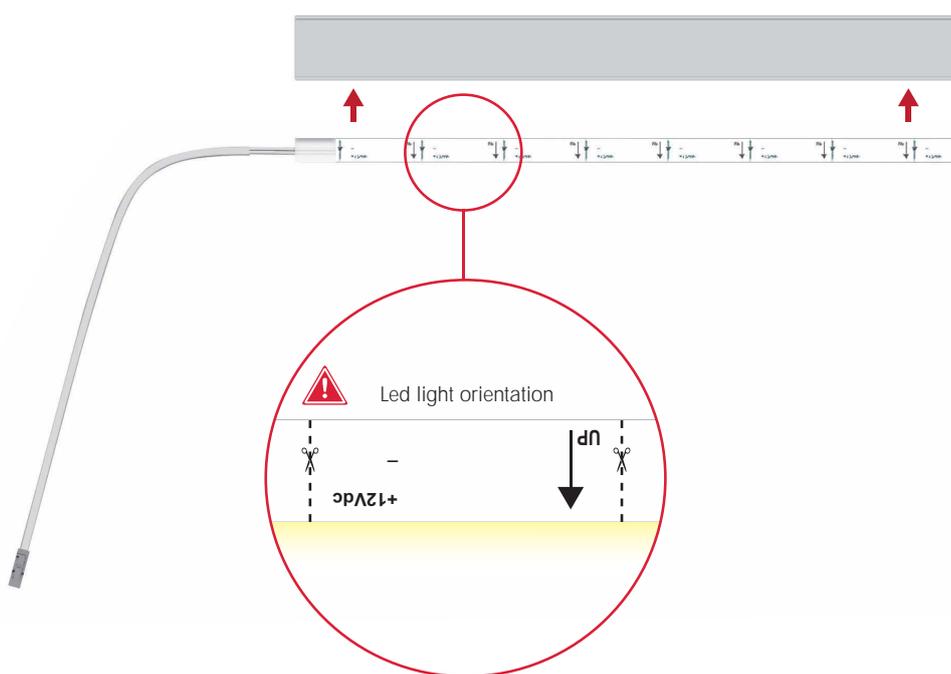
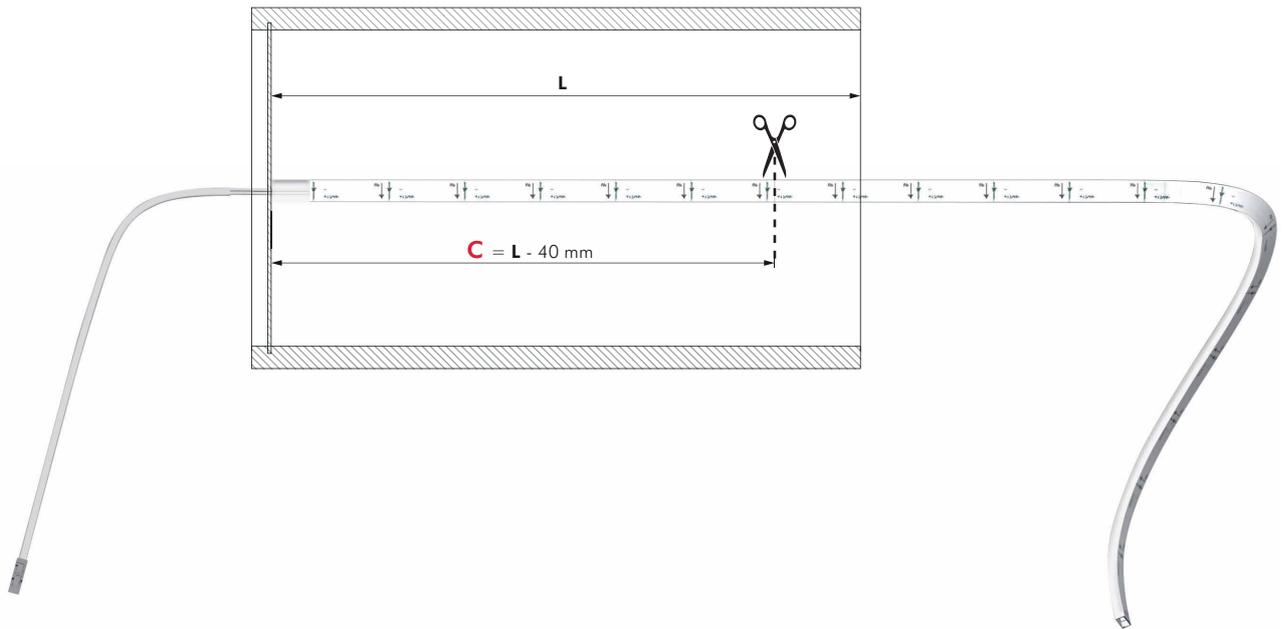


4670603000



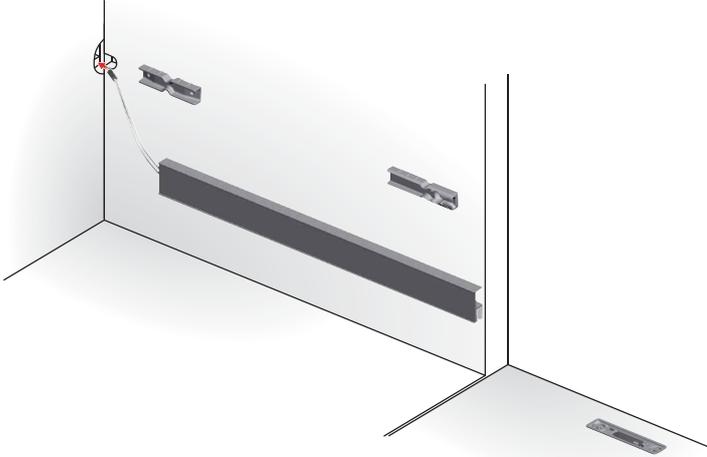
KIARO LED INSTALLATION

HOW TO CUT ON SIZE AND INSTALL THE LED FLEXIBLE STRIP.

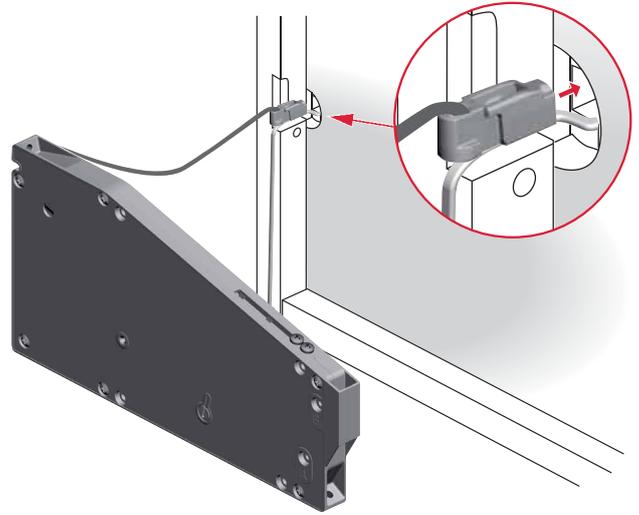




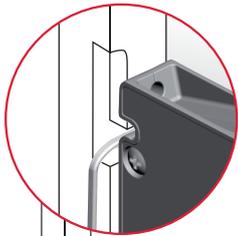
LED STRIP ELECTRICAL WIRE INSERTION THROUGH THE BACKSIDE HOLE



MECHANISM INSTALLATION

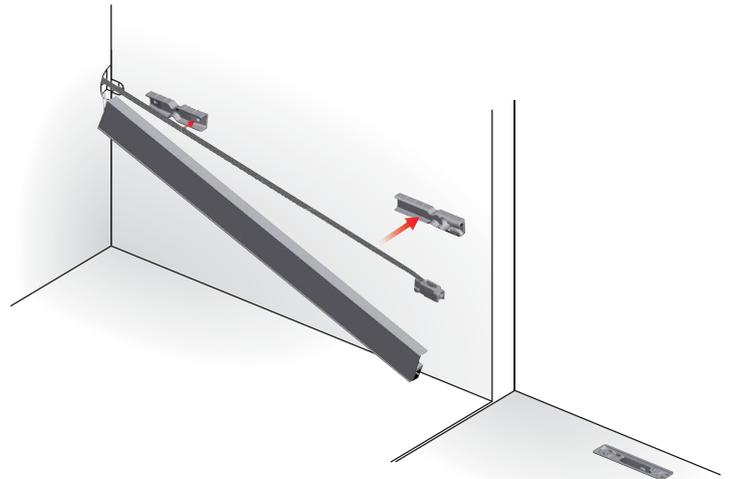


MECHANISM FIXING

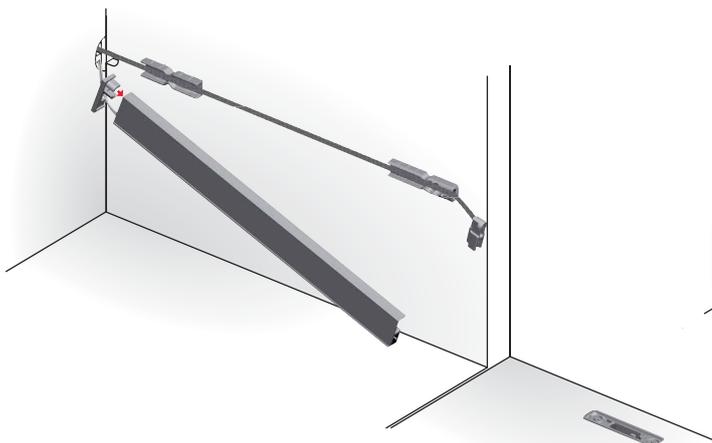


Pull the power cable of the led strip through the drilling spot on the cabinet side, before fixing the main mechanism.

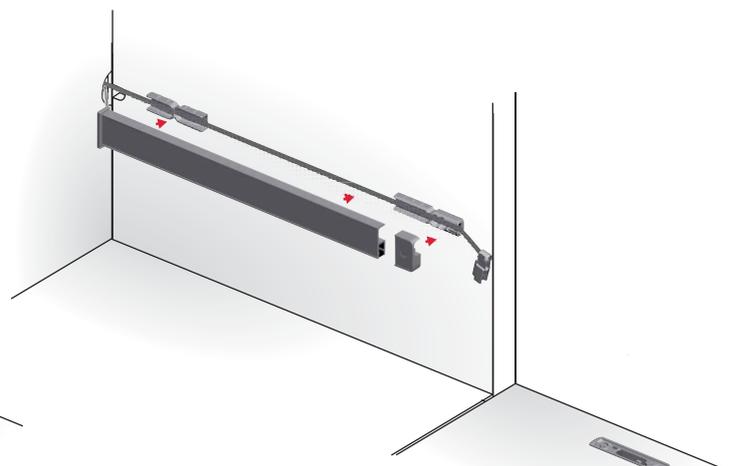
WIRE INSTALLATION



INSERTION OF THE BACKSIDE COVER FOR ALU. PROFILE

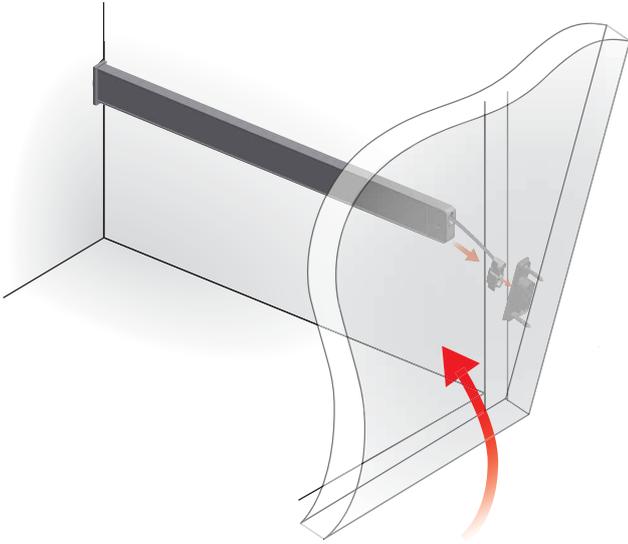


COVER CAPS AND ALUMINIUM LATERAL PROFILE INSERTION

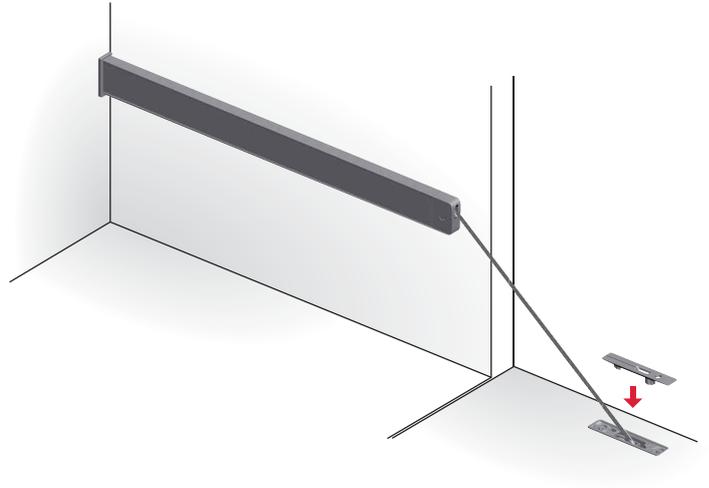




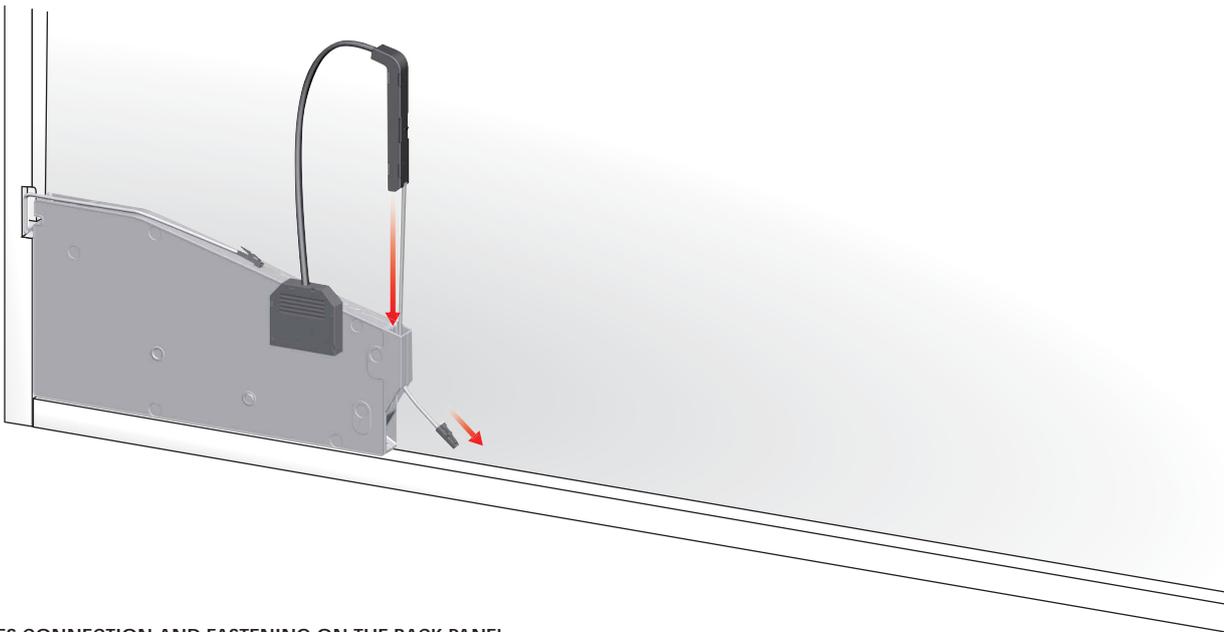
WIRE INSERTION ONTO THE DOOR BRACKET



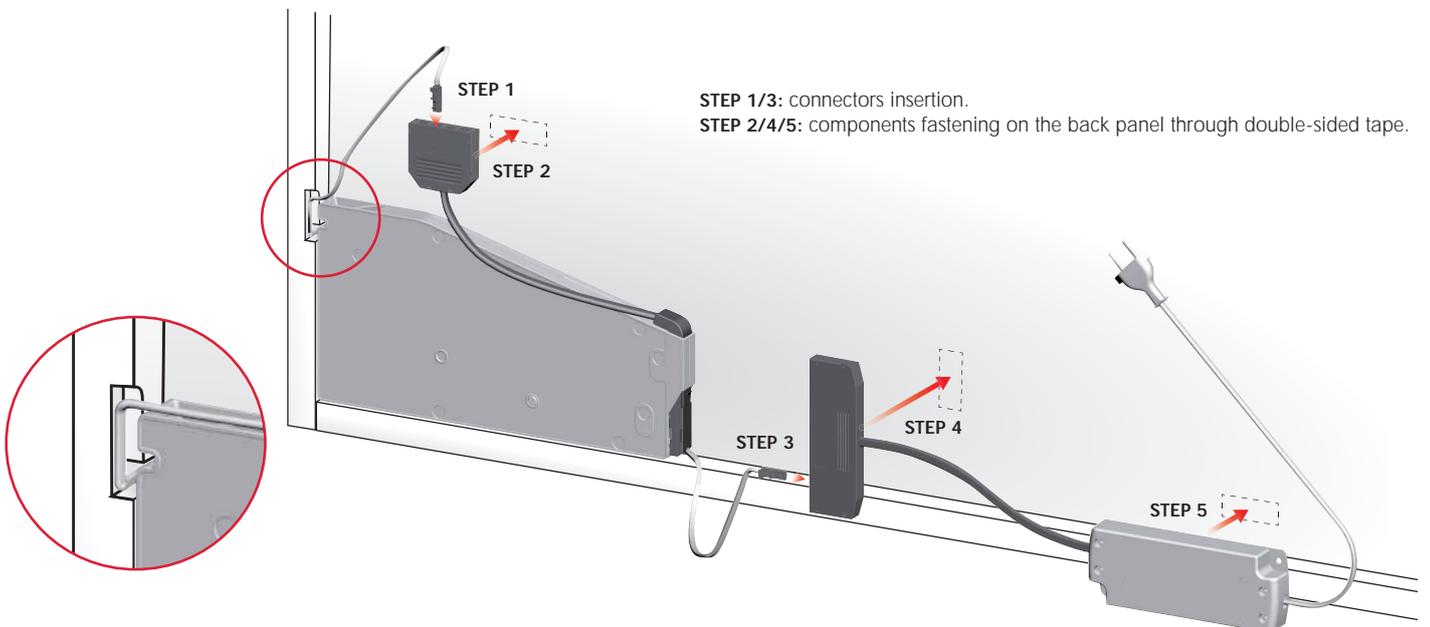
COVER CAP FOR DOOR BRACKET INSERTION



SENSOR INSTALLATION

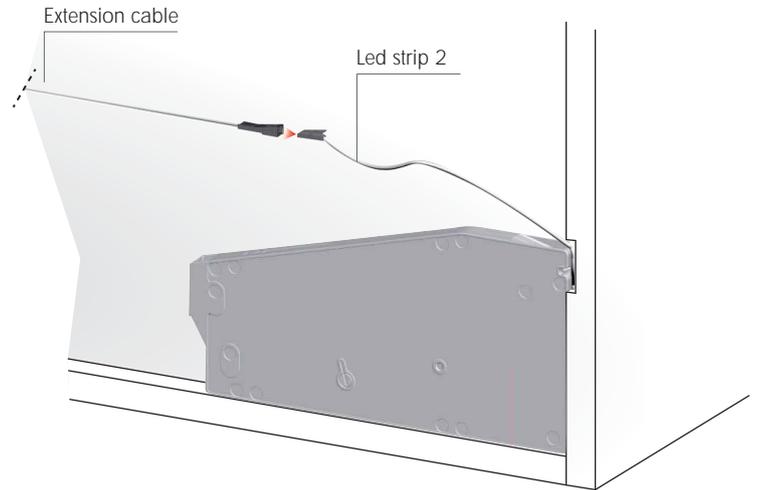
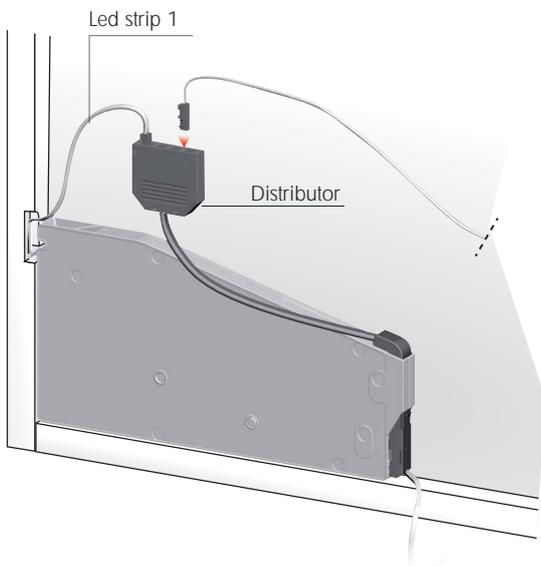


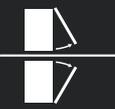
DEVICES CONNECTION AND FASTENING ON THE BACK PANEL.



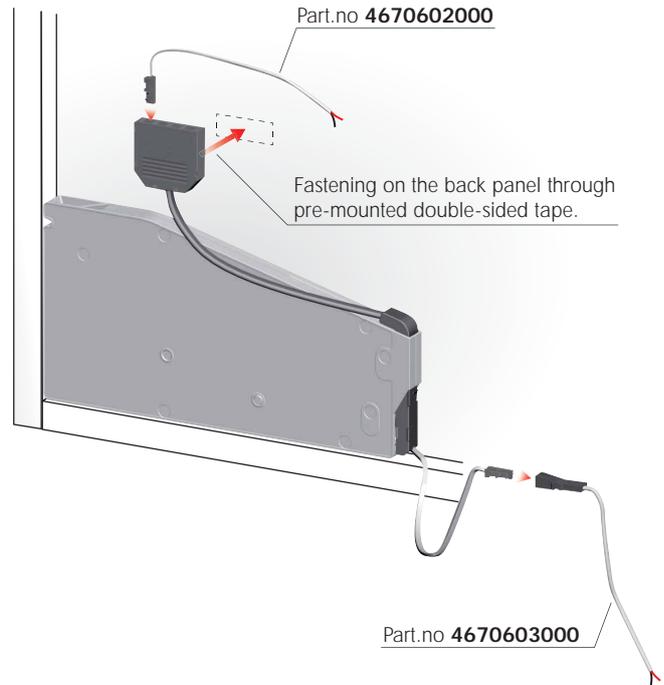
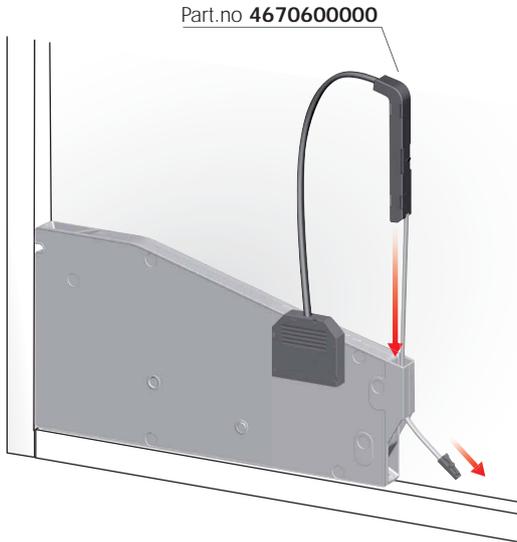


EXTENSION CABLE CONNECTION WITH LED STRIP CONNECTORS

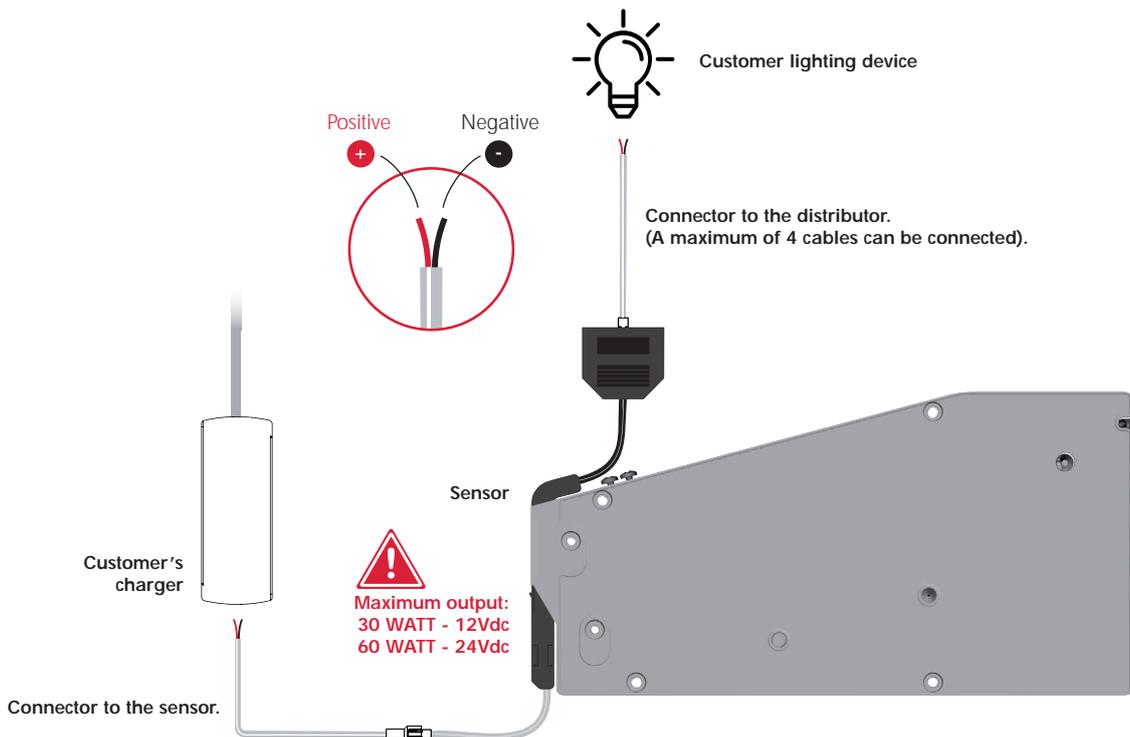




KIARO WIRING DIAGRAM FOR CUSTOMER LIGHTING



Each door must be connected to only one sensor, no matter how many mechanism are installed.



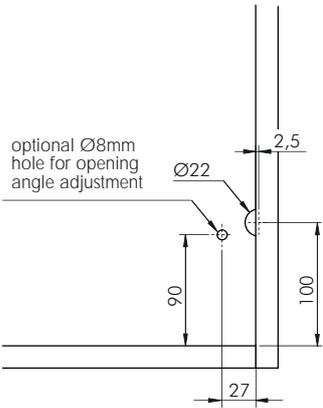


KIARO LED WITH KIMANA HINGE

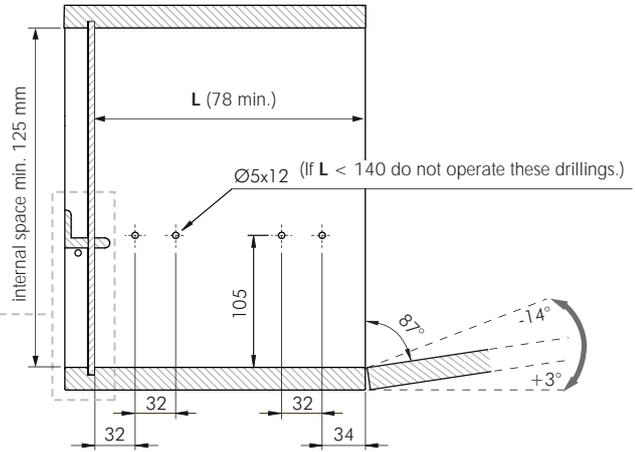
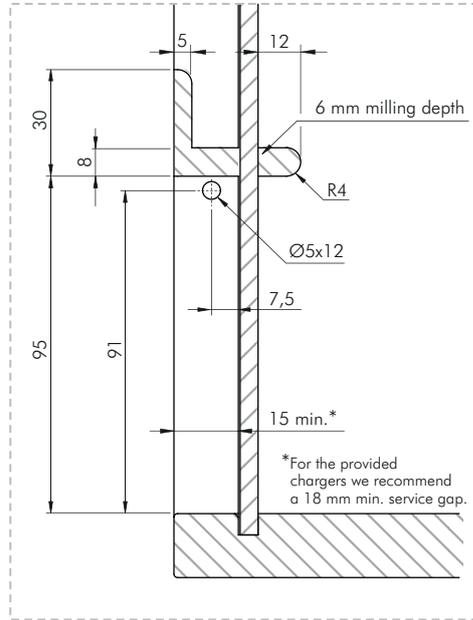


BACK-PANEL DRILLING OPERATIONS

SIDE-PANEL DRILLING OPERATIONS

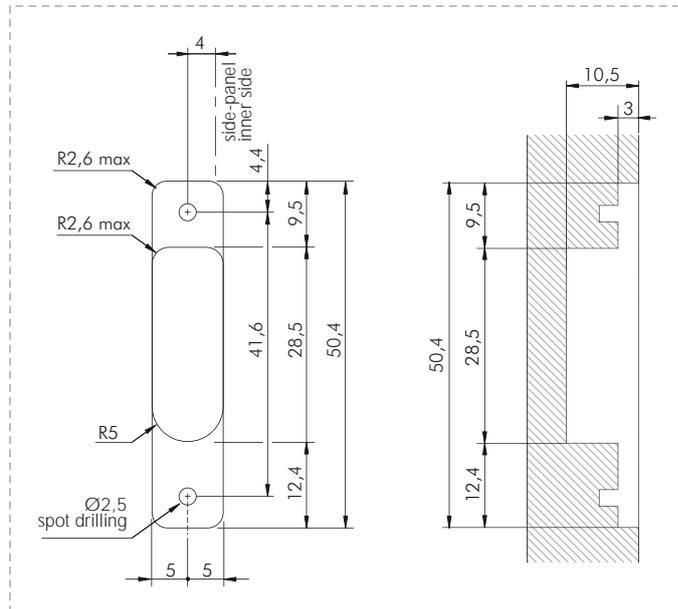
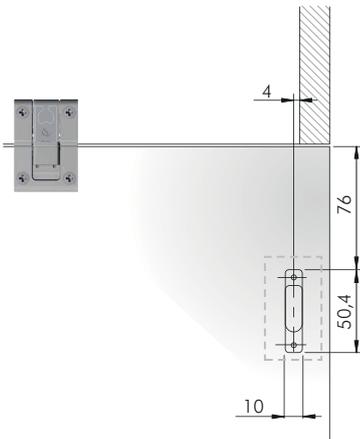


In case of door without handles it is recommended to use **K Push Tech with buffer**.



⚠ Overcrossing 90° door opening angle, negatively affects the Kimana hinges.

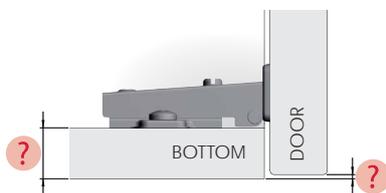
DOOR PANEL DRILLING OPERATIONS



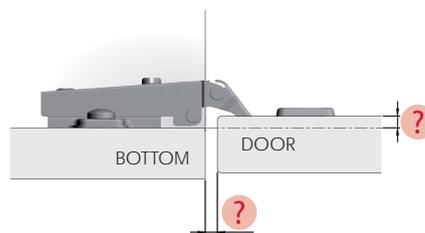
KIARO LED WITH STANDARD UNSPRUNG HINGES



In case the hinges to be installed are not KIMANA hinges, please contact our technical department to receive the correct drilling plan. It is necessary to indicate all the values requested in the following diagram:



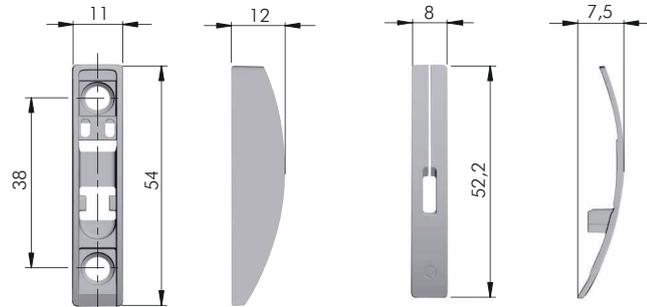
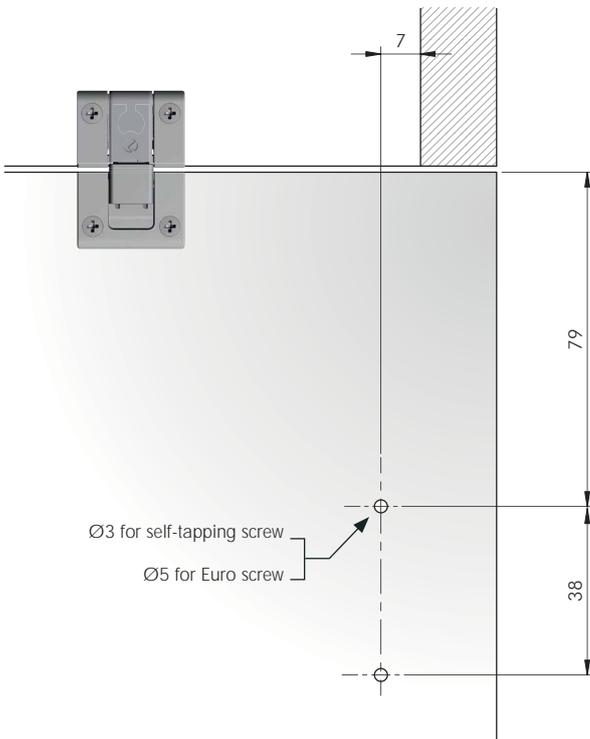
CLOSING CONDITION



OPENING CONDITION



KIARO WITH SCREW FIXING DOOR BRACKET WITHOUT MILLING ON THE DOOR



= Ø 3 mm, Ø 5 mm

ZA

EP



= 20 pcs.



49503500YQ



EE



YQ

49503500YA

EW

YA

49503510YQ

LD

YQ

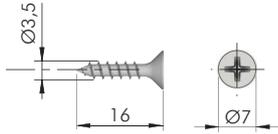
49503510YA

AB

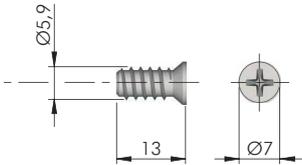
YA



FIXING ACCESSORIES



= Ø 3 mm	
= PZ2	
ST	= 1.000 pcs.
123	
60101390ZN	

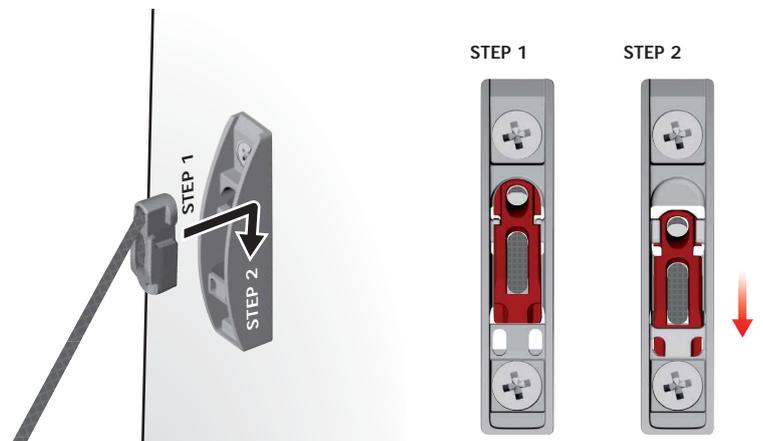


= Ø 5 mm	
= PZ2	
ST	= 5.000 pcs.
123	
60503050ZN	

DOOR BRACKET INSTALLATION



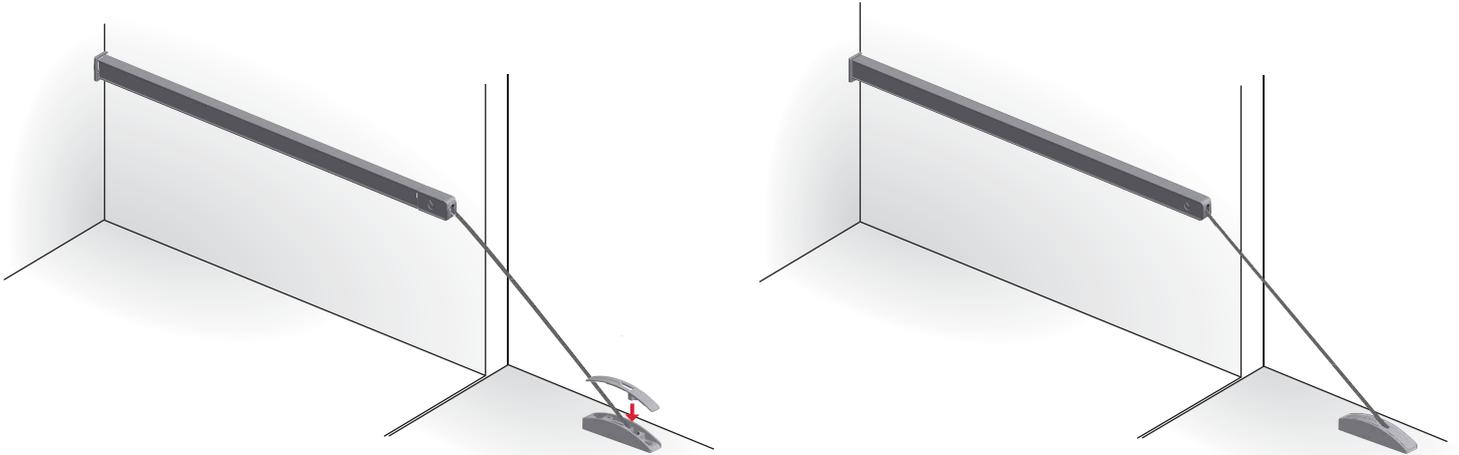
WIRE INSERTION ONTO THE DOOR BRACKET



Lift the door almost completely to slot the end element of the wire into the door bracket.



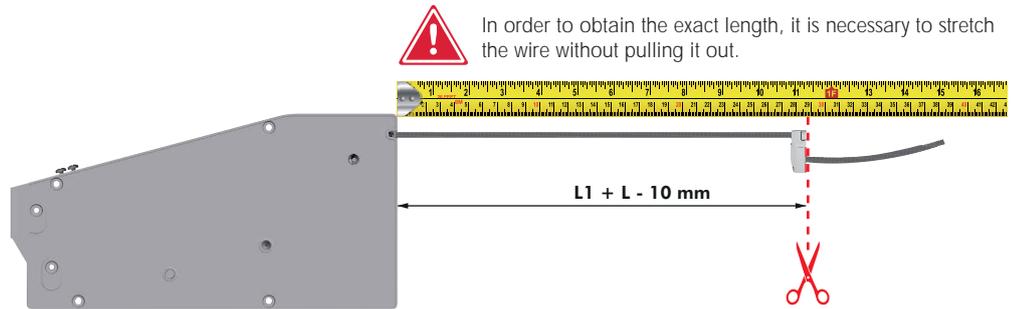
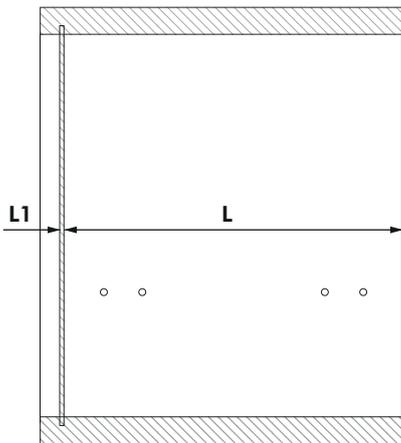
DOOR BRACKETS COVER CAP INSERTION



Place the cover cap on the door bracket before lifting the door.

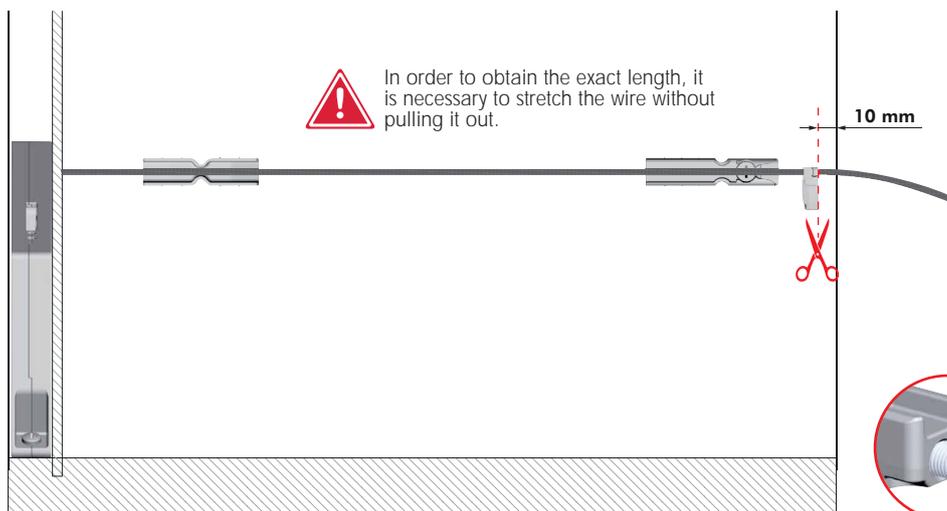
INSTRUCTIONS FOR WIRE CUTTING

WIRE CUTTING WITH UNMOUNTED MECHANISM



VERY IMPORTANT:
Before cutting, it is necessary to lock the grub screw heavily.

WIRE CUTTING WITH MOUNTED MECHANISM



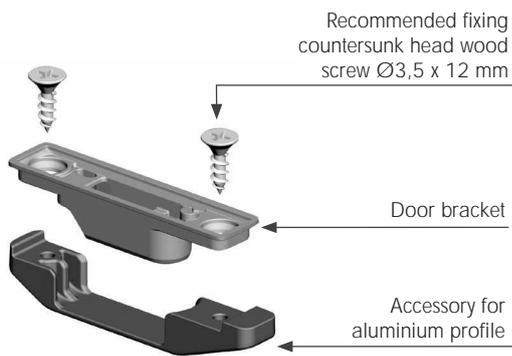
VERY IMPORTANT:
Before cutting, it is necessary to lock the grub screw heavily.



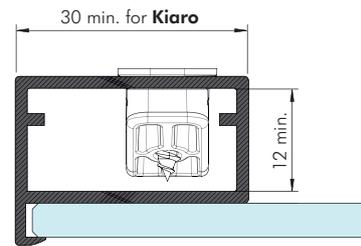
DOOR BRACKET ACCESSORY FOR DOORS WITH ALUMINIUM PROFILE



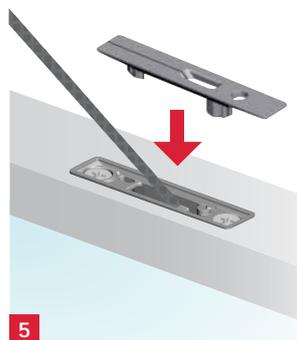
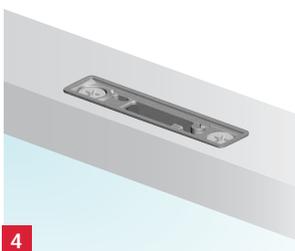
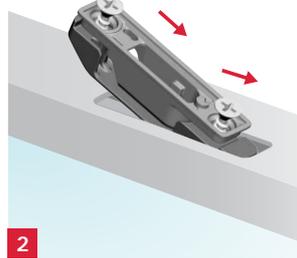
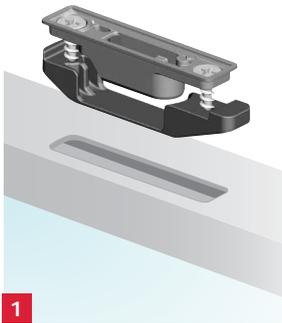
DOOR BRACKET INSTALLATION

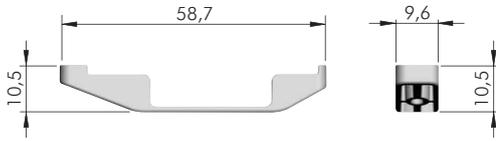


DOOR SPECIFICATION



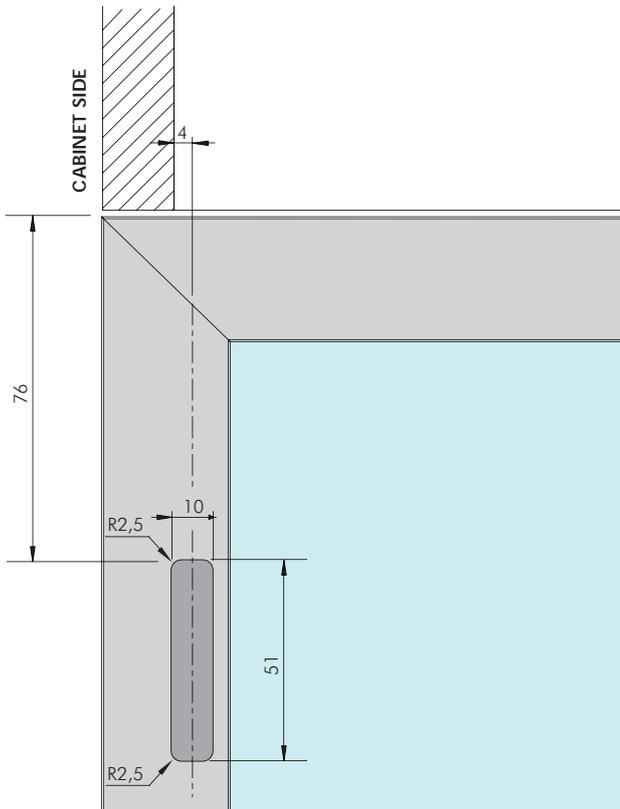
Join the door bracket with the accessory keeping the screws loose



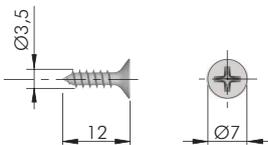


EP	= 1500 pcs.
4630208000	

DRILLING PLAN FOR KIARO



FIXING ACCESSORY



= Ø 3 mm	
= PZ2	
ST	= 10.000 pcs.
60101380ZN	





SYMBOLS AND FINISHES LEGEND

SYMBOLS



= SHELF SAFELY LOCKED DURING TRANSPORTATION AND AT HOME.



= ANTI-TURNOVER LOCKING SYSTEM



= NORMS / PATENTS



= PHILLIPS / POZIDRIV



= WITH BUFFER



= PART NO.



= BLADE SLOT



= WITH MAGNET



= PCS. PER PACKAGE



= COMBI SLOT



= HEXAGONAL SOCKET



= NEWTON



= CAPACITY LOADING



= HEXALOBULAR SOCKET



= FRICTION



= WOOD / GLASS THICKNESS



= COUNTERSUNK HEAD



= AUTOMATIC



= HOLE DIAMETER



= PAN HEAD



= DROP DOWN



= DIAMETER



= FLANGE HEAD



= LENGTH



= FLAT HEAD



= STANDARD HINGE



= HEIGHT



= TRILOBULAR SCREW



= KIMANA HINGE



= RIGHT VERSION



= SELF-TAPPING SCREW



= FLAP HINGE



= LEFT VERSION



= EURO THREAD



= WITH SPRING



= SETTING CODE



= METRIC THREAD



= WITHOUT SPRING



= PCS. PER PAD



= PRE-INSERTED SCREW



= REVERSED SPRING



= CUT ON REQUEST



= PRE-INSERTED SCREW AND SPREADING BUSH



= SELF ADHESIVE



= WITH FLANGE

NOTE: Printing errors and omissions may exist despite our best efforts to ensure accuracy. We reserve the right to alter specifications without notice.

MATERIALS

ZA = Zinc Alloy	ST = Steel	HSS = High Speed Steel	BR = Brass	ABS = Acrylonitrile Butadiene Styrene	TPU = Thermoplastic Polyurethane
ZAnk = Nickel-plated Zinc Alloy	STzk = Zinc-plated Steel	AL = Aluminium	WD = Wood	EVA = Ethylene Vinyl Acetate	
EP = ENGINEERING PLASTIC		+ EP = other engineering plastic available on request		SR = SOFT RUBBER	+ SR = other soft rubber available on request

EPn = Natural Engineering Plastic	EPc = Clear Engineering Plastic	SRn = Natural Soft Rubber
EPw = White Engineering Plastic	EPg = Grey Engineering Plastic	SRw = White Soft Rubber
EPb = Black Engineering Plastic	EPa = Anthracite Engineering Plastic	SRb = Black Soft Rubber

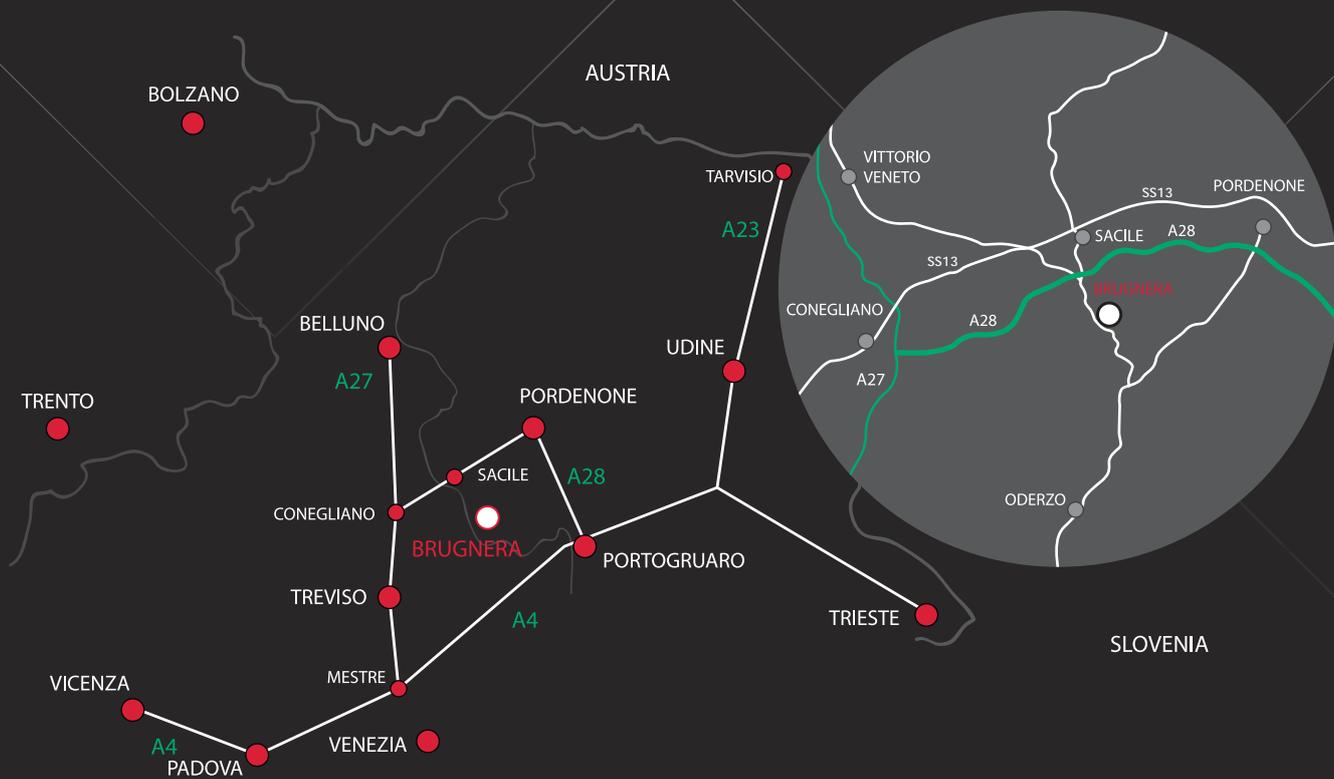


FINISHES



+ OTHER FINISHES AVAILABLE ON REQUEST

PART NO.	FINISHES	PART NO.	FINISHES	PART NO.	FINISHES
00	Insignificant finish	IF	Grey 7	XE	Inox
AA	Natural	IJ	Light Grey	YA	Nickel-plated
AB	White	IL	Grey 20	YC	Matt Nickel-plated
AE	White 9010	IN	Grey met. 26	YD	Satin-finished Nickel-plated
EA	Black	JG	Aluminium 5	YQ	Black Nickel
EC	Matt Black	JL	Aluminium PE 11	Z9	Black Zinc
EE	Anthracite	JM	Aluminium RAL 9006	ZN	Zinc-plated
EW	Grey 9007	KB	Bright Chrome	ZQ	Bright Gold
FU	Gunmetal	KC	Matt Chrome	ZZ	Clear/Transparent
FV	Gunmetal V52	LD	Brown 8019		
GR	Zamak Raw	RO	Red		
HA	Brass-Plated	UT	T-Met 9007		
HH	Tropicalized	UZ	T-Met		
HL	Raw Brass	WA	Bronzed		
HX	Graphite	WI	Burnished		
IA	Grey	XD	Satin-finished Steel		



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ITALIANA FERRAMENTA SRL - Viale Europa 17 I - 33070 Brugnera (PN)
 Tel. +39 0434 428211 Fax +39 0434 428242 E-mail: info@italianaferramenta.it