



KIARO

DROP DOWN SYSTEM FOR SHUTTERS



Minimalism is one of the most sought-after design themes in the world right now. We know it is a win-win when hardware is strong and highly functional yet elegant at the same time. Hafele, in association with Italiana Ferramenta brings to you Kiaro, an elegant drop-down system for your cabinet shutters. Equipped with a sleek high resistance wire and a concealed mechanism installed behind the cabinet, Kiaro elevates the beauty of your furniture without compromising on functionality.

It follows the one size fits all feature, wherein the same mechanism can be used for a wide range of cabinet door dimensions with only minor tweaks or adjustments in the settings. The unhandled nature of the mechanism offers flexibility with regards to its positioning and installation. The two finishes, Nickel Plated and Gun Metal are in-line with the current overriding market trends and blend in completely with other hardware from Hafele's range of furniture hinges and push-to-open technologies, thereby providing seamless aesthetics.

FEATURES



MINIMAL AND ELEGANT DESIGN

The entire mechanism of Kiaro is hidden behind the cabinet with only the wire visible when the shutter is open. This high resistance technical wire grants a significant load bearing capacity while being sleek and elegant. Available in two finishes, Nickel Plated and Gun Metal that respond to the current overriding trends in the furniture industry, Kiaro becomes an element of design for the entire cabinet.



OPTIMIZED STOCK MANAGEMENT

Kiario follows the one size fits all feature, wherein the same mechanism can be used for a wide range of cabinet door dimensions with only minor tweaks or adjustments in the settings. It also grants you the ability to adjust the load and opening angle, depending on various shutter dimensions.



UN-HANDED MECHANISM

The un-handed nature of the Kiario mechanism enables it to be installed both on right and left side of the cabinet. This feature adds an element of flexibility in installation and usage.



EASY INSTALLATION:

The installation of Kiario is effortless due to its minimal drilling requirements and easy to assemble components.

1

POSSIBILITY OF INSTALLING SINGLE MECHANISM:

A single unit of the Kiario mechanism can be used for shutters with smaller dimensions. For larger shutters, depending on the width and height, you have to opt for 2 units (refer to page no. 8 for more details)



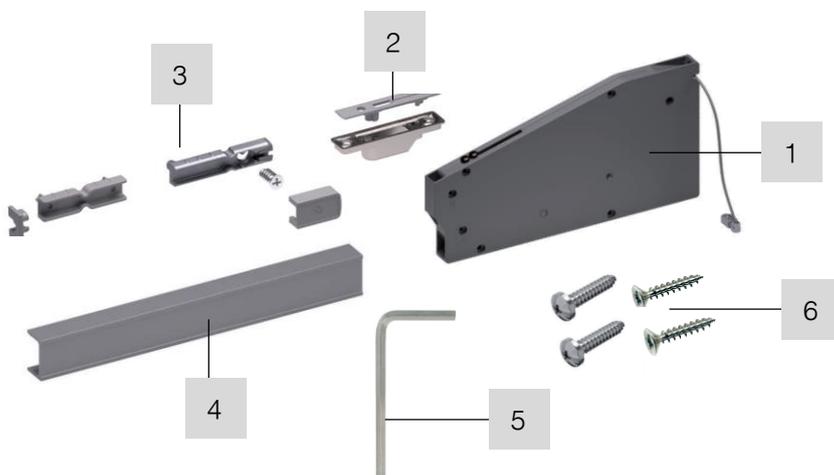
HANDLELESS DOORS:

Handleless door applications can be effortlessly achieved by combining Kiario and push-to-open devices for a seamless look across your furniture.

COMPONENTS

MECHANISM BOM KIT

356.47.110 – Nickel Plated, 356.47.111 – Gun Metal

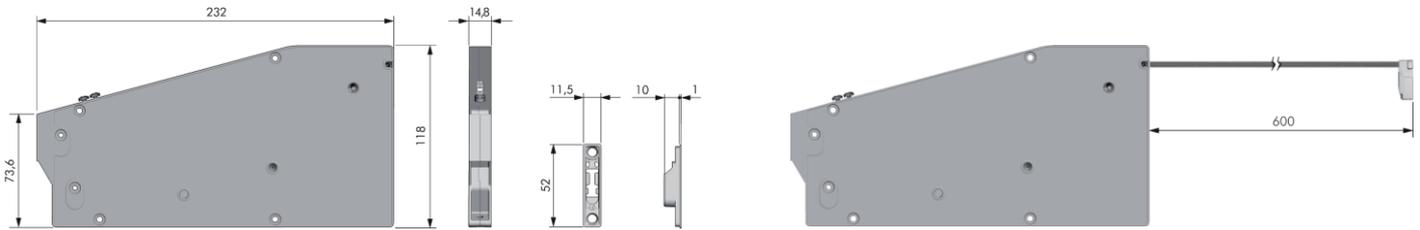


- 1 Mechanism with Wire × 1
- 2 Embedded Door Bracket and Cover × 1
- 3 Wire Connectors × 2
- 4 Aluminium Profile Cover (550 mm) × 1
- 5 Allen Key × 1
- 6 Screws (2 pan head wood screws and 2 countersunk head wood screws) × 4

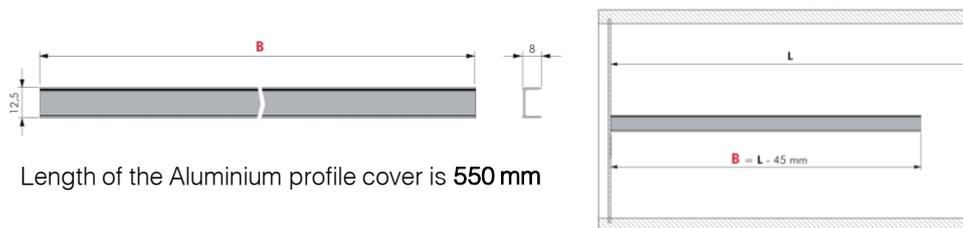
Note: The BOM kit includes quantities only for installation on one side. If the mechanism has to be installed on both sides, 2 BOM kit sets need to be ordered.

TECHNICAL SPECIFICATIONS

MECHANISM DIMENSIONS



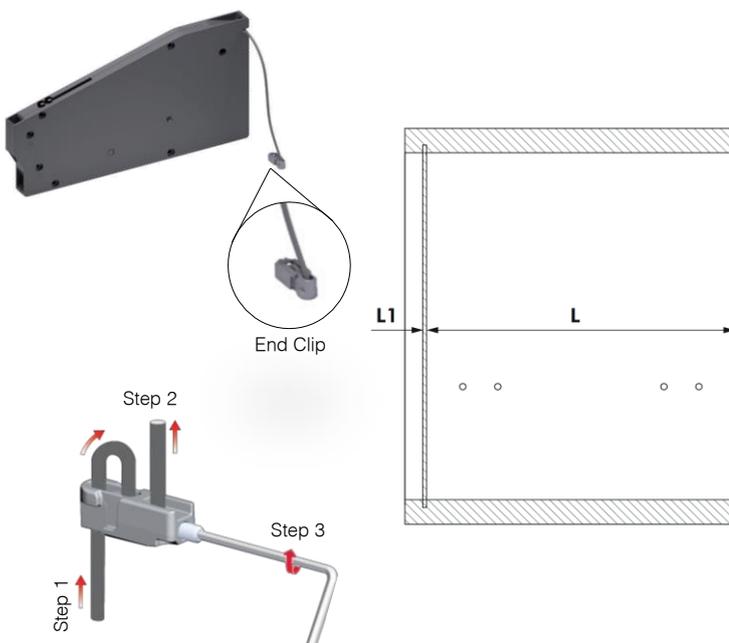
ALUMINIUM PROFILE COVER DIMENSIONS



Length of the Aluminium profile cover is **550 mm**

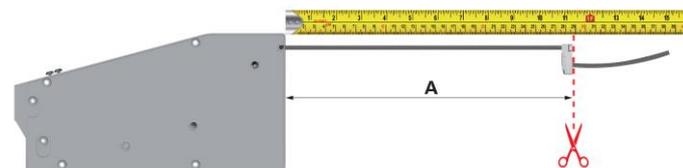
B (the required length of the profile cover) = $L - 45$ (where L : internal depth of the cabinet)

WIRE CUTTING



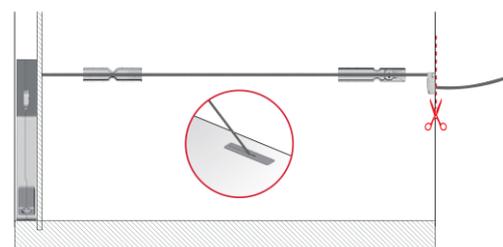
- Step 1: Push the wire into the end clip to get the excess length out. The required length should be $L1 + L$
- Step 2: Pull the wire from the other end to stretch it so you can get the exact length
- Step 3: Completely lock the grub screw using an Allen wrench once the length corresponds to the needed dimension

Unmounted Mechanism



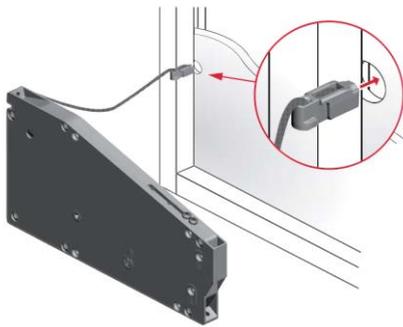
For unmounted mechanism, length: $A = L1 + L$ (where $L1$: thickness of the back panel and L : internal depth of the cabinet)

Mounted Mechanism

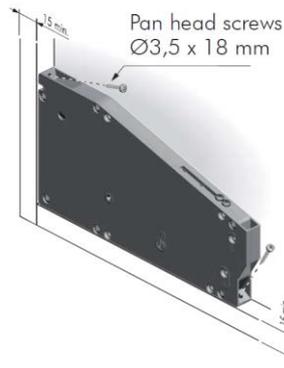


For mounted mechanism, stretch the wire till it aligns with the front edge of the cabinet and then cut it

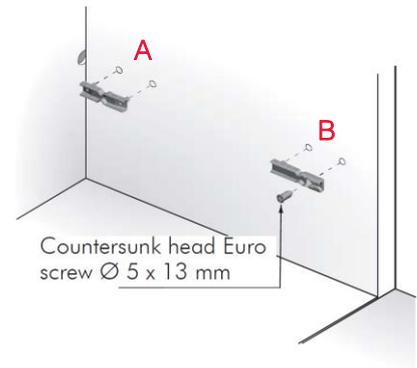
INSTALLATION



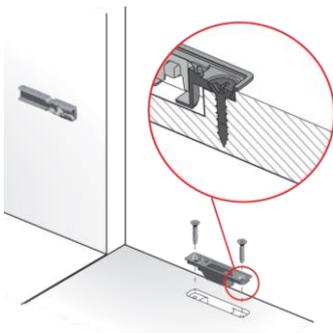
1. Prepare the back panel of the cabinet by carving a 12 mm diameter hole and get the wire out through the hole towards the front (refer to the drilling dimensions section on page no. 6 for more details)



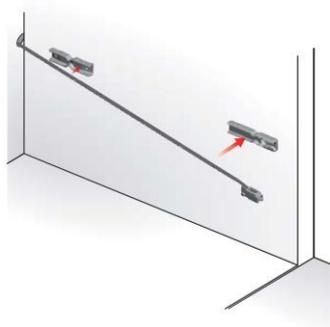
2. Fix the mechanism to the panel with the help of pan head screws (the number of Kiaro mechanisms can be one or two depending on the cabinet dimensions, refer to page no. 8 for more details)



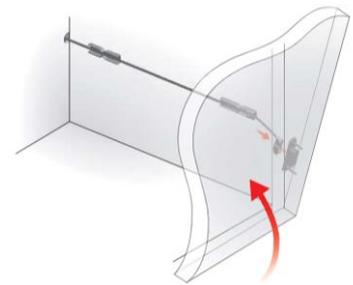
3. Fix the connectors to the side panel for attaching the wire. If the cabinet depth is less than 140 mm, only the connector drilling holes towards the shutter side, i.e. B, are required)



4. Fix the door bracket to the shutter



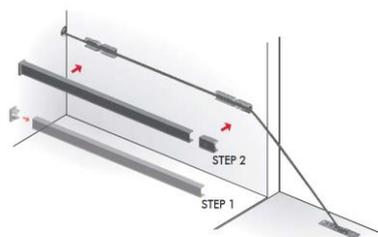
5. Cut the wire so that the length aligns with the edge of the cabinet. Weave it through the connectors. You can also cut it before mounting (refer to the 'Wire Cutting' section on page no. 4)



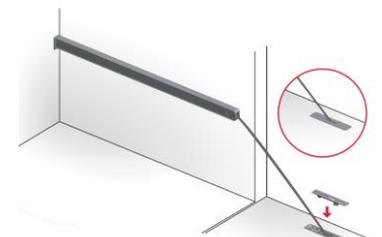
6. Lift the cabinet door to attach the wire to the door bracket



7. Insert the end clip with the wire into the door bracket and click to attach permanently



8. Cut the profile cover to size (L- 45) and fix it to cover the wire and wire connectors



9. Place the cover on the door bracket

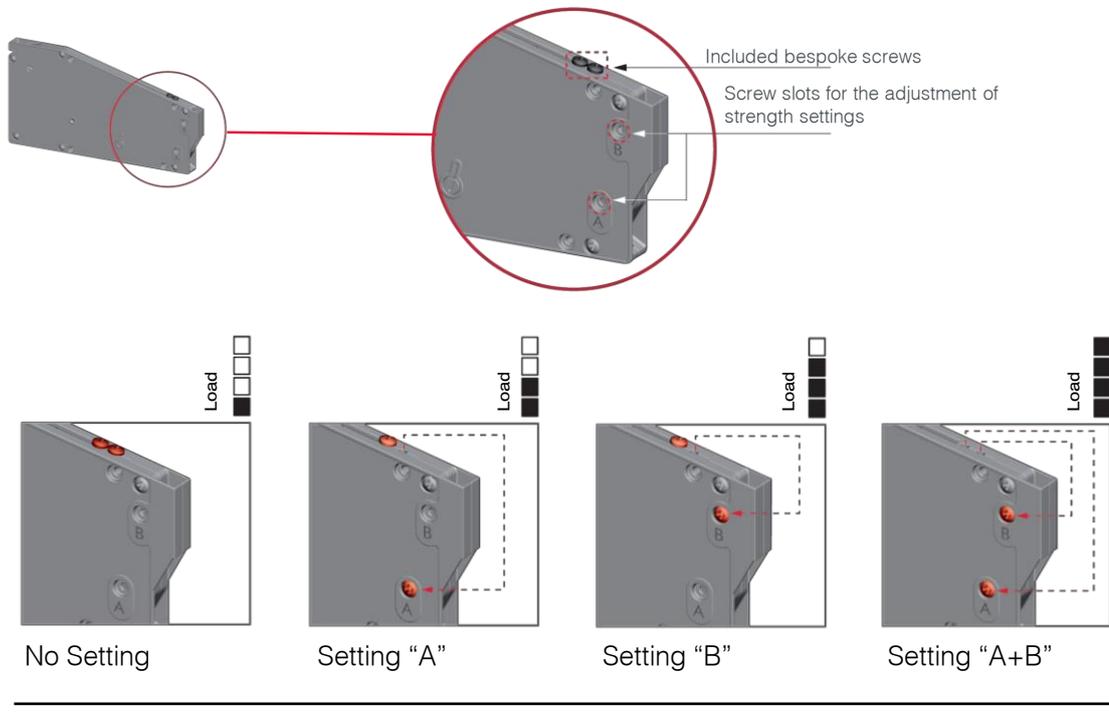
Note:

1. L1: thickness of the back panel and L: internal depth of the cabinet
2. In the installation steps above, the wire cutting happens after mounting the Drop Down Mechanism. You can also cut the wire before it is mounted (refer to unmounted mechanism in the Wire Cutting Section on page 4 for more details) and can therefore skip Step 5 mentioned in the above installation process.

ADJUSTMENTS

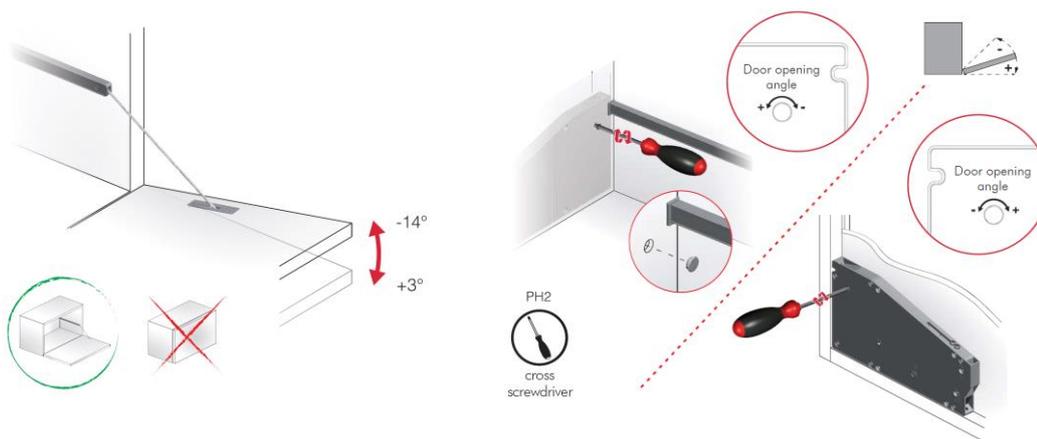
LOAD/ STRENGTH SETTING ADJUSTMENT

The speed of the shutter can be adjusted through the load/ strength settings provided in the mechanism. Different position of the screws correspond to different load and strengths.



As you increase the load from 'No Setting' to 'Setting "A+B"', the opening speed of the shutter reduces

DOOR OPENING ANGLE ADJUSTMENT

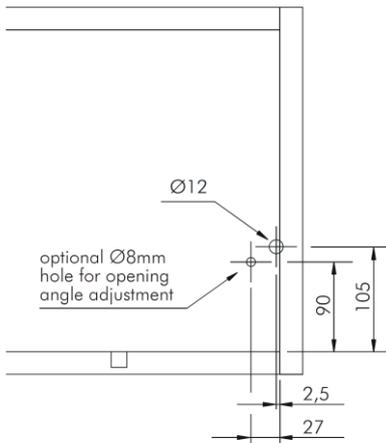


The opening angle can be adjusted between -14° to $+3^{\circ}$ with the help of a screwdriver, only when the door is open. The adjustment can be either carried out from the rear side of the cabinet or from the front side through a $\varnothing 8$ mm drilled hole in the back panel (for more details refer to the 'Drilling Dimensions' section shown below). Please note that for doors weighing more than 4 kg., it is not possible to adjust the opening angle by this method, in this case, to adjust the opening angle, the wire must be shortened accordingly. Please note that it is possible to only reduce the opening angle (not increase) through the shortening method.

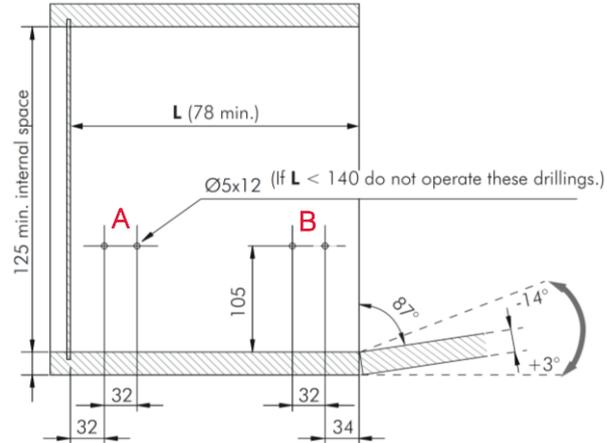
[Click here to view the installation video of the Kiara system](#)

DRILLING DIMENSIONS

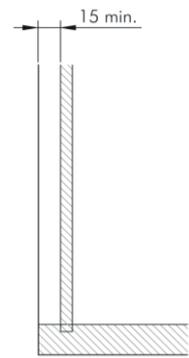
BACK PANEL



SIDE PANEL



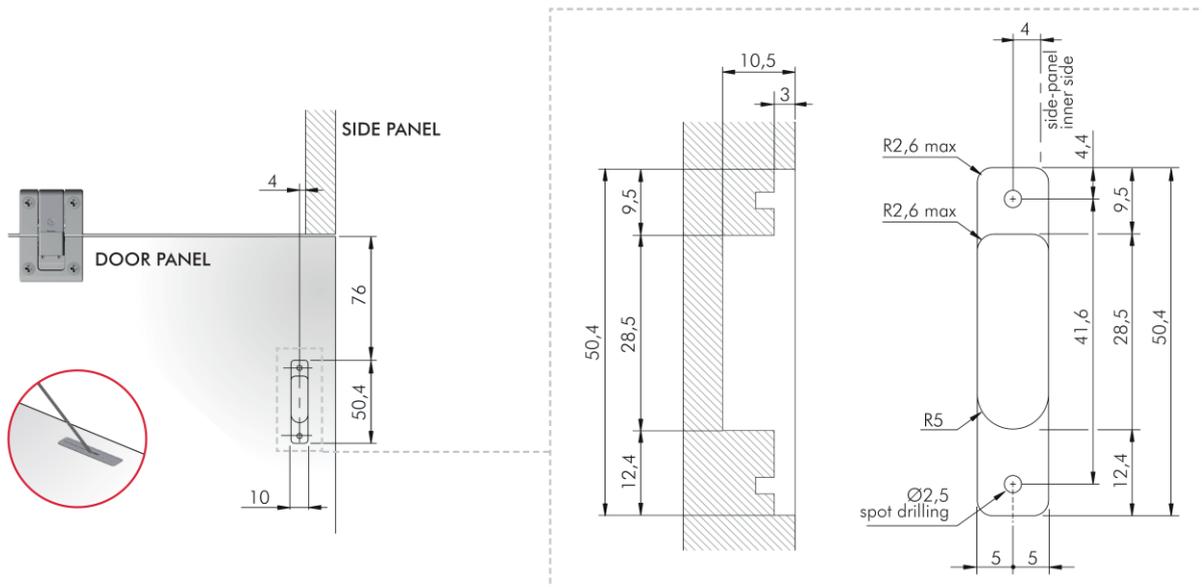
SERVICE GAP



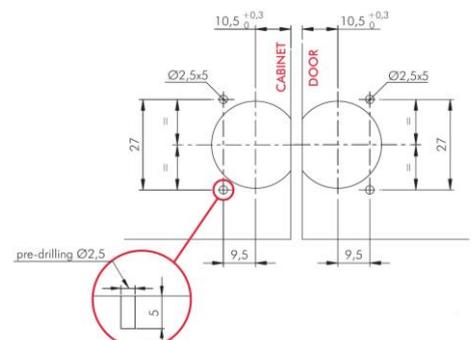
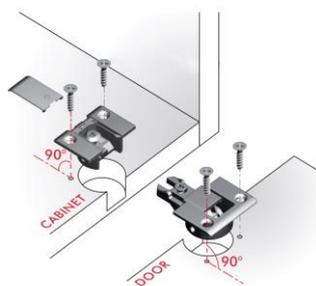
Note:

1. Min. internal cabinet height = 125 mm, Min. internal cabinet depth = 78 mm, Max. internal cabinet depth = 550 mm. In case cabinet depth is in between 78 mm and 140 mm, do not operate the drilling (A) pointed out in the above image. In this case, only 1 connector is enough to support the wire through the side panel
2. Minimum weight of shutter for Kiaro to work is 3.7 kg
3. A service gap of minimum 15 mm should be left at the back of the panel for maintenance purposes

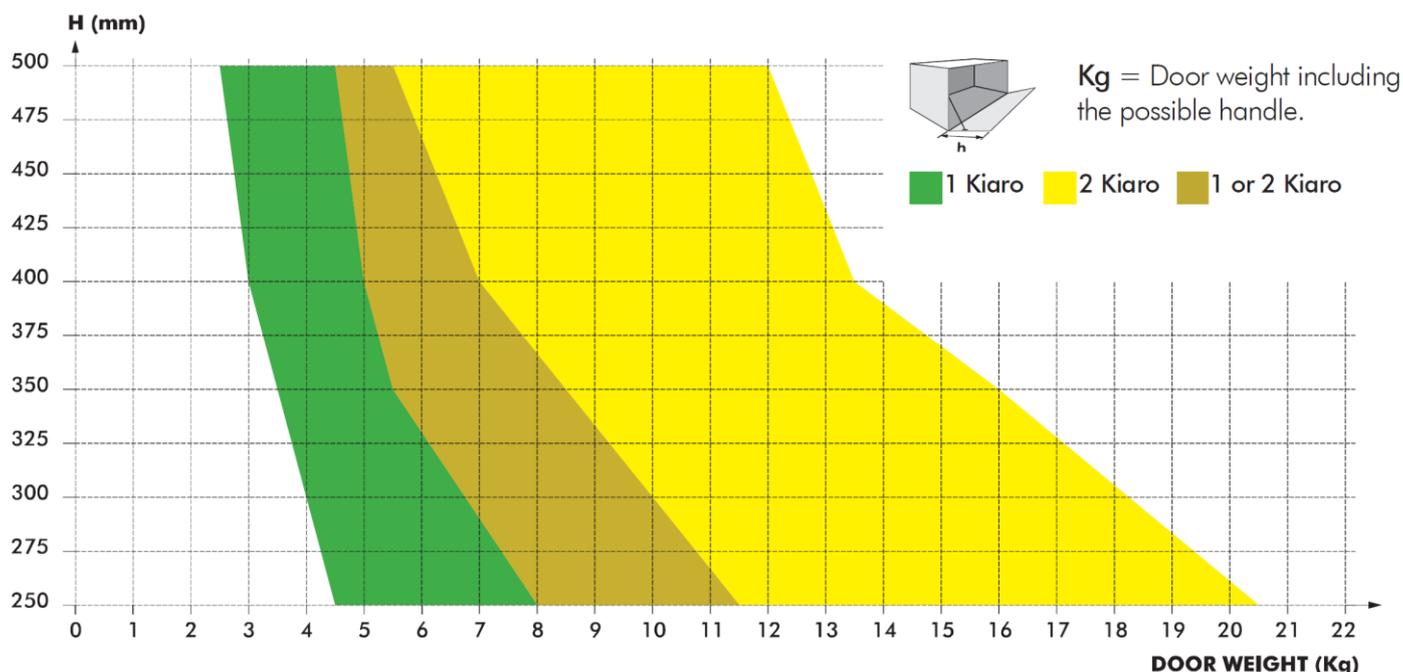
DOOR PANEL



The Kiaro Drop Down System can be installed along with the Kimana Flush hinges to maximize the elegance of your cabinets.



HOW TO ORDER KIARO FOR YOUR WOODEN CABINET SHUTTER?



Example: There is a cabinet shutter with the following dimensions: Height: 400 mm, Width: 1200 mm, Thickness: 18 mm. Suggest the number of Kiaro systems for this shutter.

First we need to calculate the weight of the shutter:

$$\begin{aligned} \text{Weight} &= \text{Height (m)} \times \text{Width (m)} \times \text{Thickness (m)} \times 700 \text{ kg/m}^3 + 10\% \text{ (weight of handle)} \\ &= 0.4 \times 1.2 \times 0.018 \times 700 \\ &= 6.05 \text{ kg} + 10\% = 6.6 \text{ kg} \end{aligned}$$

Plotting these values on the graph above, weight of 6.6 kg and height of 400 mm, this cabinet falls under the '1 or 2 Kiaro' region.

In such cases, we need to look at the following conditions:

If the width < 900 mm, 1 Kiaro system is recommended

If shutter width ≥ 900 mm, 2 Kiaro systems are recommended

As the shutter width here is 1200 mm (i.e. greater than 900 mm), **2 Kiaro Systems (356.47.110/356.47.111)** need to be installed.

ORDERING INFORMATION

ARTICLE NUMBER	DESCRIPTION	UOM	FINISH
356.47.110	BOM Kit consists of: • Mechanism with Wire × 1 • Embedded Door Bracket and Cover × 1 • Wire Connectors × 2 • Aluminium Profile Cover (550 mm) × 1 • Allen Key × 1 • Screws (2 pan head wood screws and 2 countersunk head wood screws) × 4	1 set	Nickel Plated
356.47.111			Gun Metal
342.73.610	Kimana Flush Hinges	1 pc	Nickel Plated
342.73.310			Black Nickel

[Click here to view the complete range of Italiana Ferramenta furniture fittings](#)

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Mahalaxmi (West), Mumbai - 400 011.
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Mumbai Design Centre:

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Mumbai - 400 078.
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2596 9787/2594 7305

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