Comfort in four dimensions.
Flap systems provide the perfect movement solution for every application.

kinvaro.

KI A gentle tap or pull is all it takes to set the flaps gently in motion.
The closing operation is also particularly comfortable.
With Soft-close damping system, each movement becomes an experience.



FOLLOW US

Folding.
Up-and-over.
Parallel lifting.
Top-hung lifting.

Kinvaro
Flap Systems.



reddot winner 2020

kinvaro.com

Feel more WOW.

G*GRASS®

You know what you are getting when you buy a brand product. GRASS is the best example of this maxim. **Our high-quality motion systems combine technological progress, convenient functionality, the highest quality and precision down to the last detail.**

grass.eu

Less is more: With the Kinvaro T-Slim lift-up flap system we have achieved the impossible – the full opening experience in the slimmest, most efficient fitting we have ever produced. Its dynamic elegance lends each piece of furniture a certain effortlessness. Kinvaro T-Slim combines purist aesthetics, a very stable construction and the art of perfect movement in a virtually unique manner.

Kinvaro T-Slim
Flap System.



A major design trend of our time is transparency.

Transparency has not only become established as a style factor in modern architecture but has also become a central topic in furniture making. Open shelves, glass cabinets, glass fronts – “storage” has become superseded by a kind of “display”. Aluminium-framed fronts with glass infill are becoming increasingly popular. Ideal for Kinvaro T-Slim, as the new lift-up flap system actually realises its full potential and demonstrates its unique features when combined with aluminium-framed fronts. With Kinvaro T-Slim the open-transparent style of the furniture remains unblemished.

Invisible.

The less room the technology occupies, the more is available for your items. This is a simple calculation. With the extremely slim design of the Kinvaro T-Slim, all functional components can be perfectly milled into the cabinet wall. The result is a wall cabinet with invisible technology and maximum space.



Reinvent the wall cabinet.

Let your creativity run wild. With Kinvaro T-Slim you now have a functional movement system at your disposal that lends a completely new meaning to wall cabinets. Play with new options. Reduce the side wall thickness to 16 mm. Fit narrow partitions or create total transparency. Milled in or screwed on. Handle-free or with Soft-close. With inset or overlaying fronts. In wood, MDF or aluminium frames – Kinvaro T-Slim offers everything that makes designer hearts beat faster.

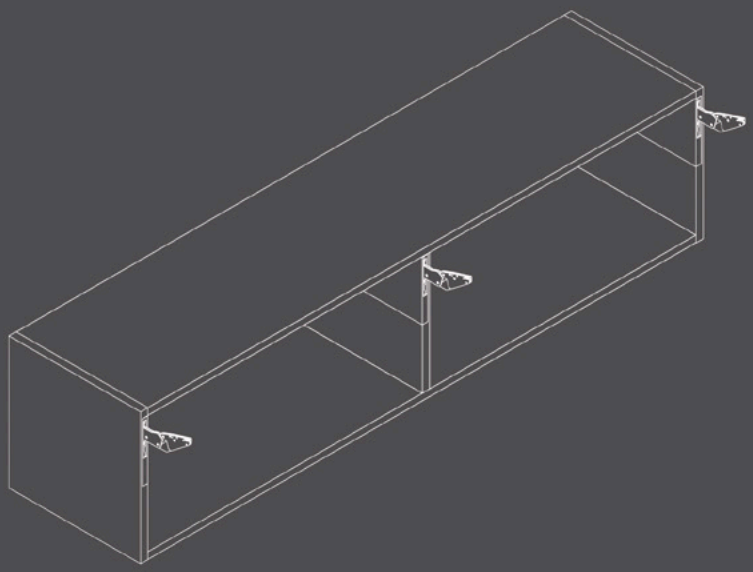
The renaissance of the flap cabinet.

Horizontal storage spaces with lift-up flaps that are at eye level and therefore immediately accessible are particularly practical for many applications. Directly above the worktop in the kitchen, above the sink or cooker. Above the bathroom sink or next to the mirror. Above a desk or the TV in the living area – in modern interior design, flap cabinets have primarily become established as horizontal design elements. Whereas high wall units with high flap fronts used to be the norm, designers today are increasingly returning to horizontal formats. Kinvaro T-Slim is the ideal solution.

reddot winner 2020



Wide fronts are as popular as ever. Their advantages are particularly obvious in wall cabinets. Wide fronts avoid gaps – and when wide fronts are opened, much more storage space is revealed. There is no question that Kinvaro T-Slim also offers an intelligent solution for wide fronts. An additional flap fitting is simply added for cabinet widths of more than 1,200 mm. This creates a powerful trio that increases the load capacity by 50 percent.



Example calculation:
With three Kinvaro T-Slim units and a cabinet height of 350 mm, flap fronts with a total weight of up to 9.6 kg are possible; this corresponds approximately to a wooden front of 1,800 mm with a thickness of 19 mm.

A strong trio for a wider span.

FRONT HEIGHT
250 MM
MAXIMUM FRONT WEIGHT
13.5
KILOGRAMS

FRONT HEIGHT
350 MM
MAXIMUM FRONT WEIGHT
9.6
KILOGRAMS

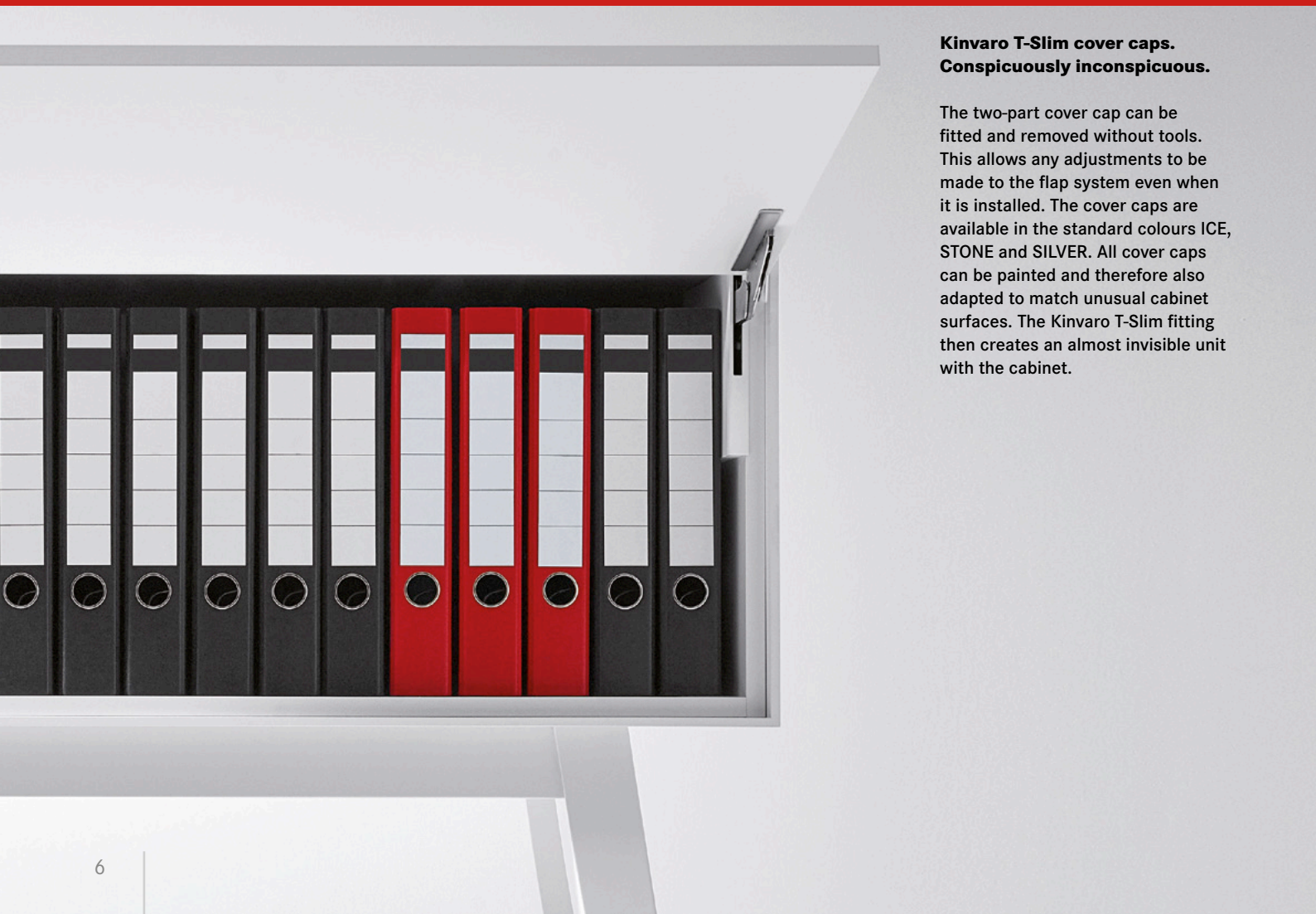
FRONT HEIGHT
450 MM
MAXIMUM FRONT WEIGHT
7.5
KILOGRAMS

FRONT HEIGHT
550 MM
MAXIMUM FRONT WEIGHT
6.1
KILOGRAMS

If you don’t want to mill the wall, you can screw on the fitting. Sounds simple - and it is!

Kinvaro T-Slim can naturally also be mounted on the side wall of the cabinet in the usual way. A simple adapter makes the integrative T-Slim fitting a classic screw-mounted type – without losing any of the elegant, lightweight character. On the contrary. A quick look into the open flap cabinet is sufficient to see that the Kinvaro T-Slim also looks great as a screw-mounted version. Its 12 mm, slim, monolithic design looks like a formal work of art that can be harmoniously integrated into any furniture cabinet.

Even the screw-mounted version of Kinvaro T-Slim looks like a lightweight construction kit. Its slender appearance hardly suggests the power that it conceals.



Kinvaro T-Slim cover caps. Conspicuously inconspicuous.

The two-part cover cap can be fitted and removed without tools. This allows any adjustments to be made to the flap system even when it is installed. The cover caps are available in the standard colours ICE, STONE and SILVER. All cover caps can be painted and therefore also adapted to match unusual cabinet surfaces. The Kinvaro T-Slim fitting then creates an almost invisible unit with the cabinet.

Fully process compatible.

A movement system is only as good as its ability to be integrated into existing modern furniture-making processes. Kinvaro T-Slim has this ability. It is not necessary to change any processes for Kinvaro T-Slim. On the contrary. The new flap fitting was designed optimally to suit existing processes. This applies to industrial production, distributors and also the trades – nothing changes for you. Except that you can additionally mill in Kinvaro T-Slim. And that you can use the invisible technology in the future.

To achieve the highest degree of transparency, a movement system must be able to almost disappear. This is what the Kinvaro T-Slim flap system can do. Simply unobtrusive.

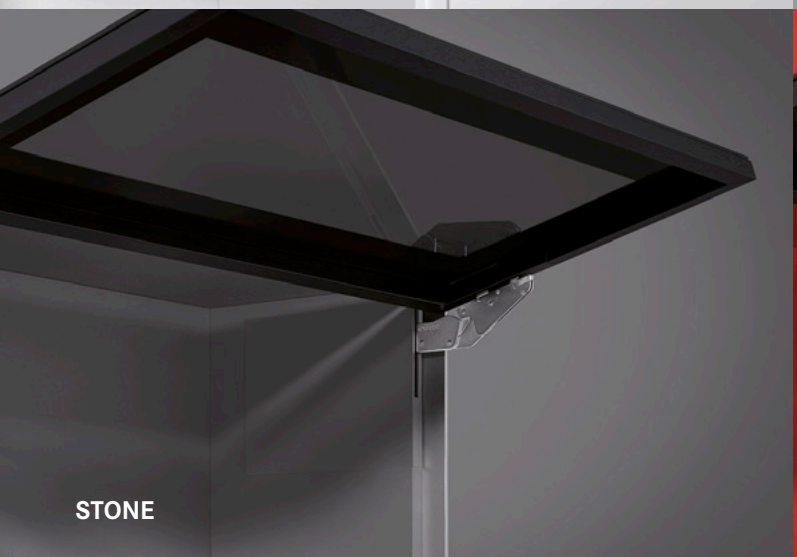




ICE



SILVER



STONE



INDIVIDUAL





Kinvaro T
Lift-up flap systems

The single front opens up smoothly with a gentle lift movement. The particularly elegant movement sequence is enhanced by the integrated, adjustable Soft-close damping. Lift-up flap systems are ideal for light to medium-heavy fronts.



Kinvaro T-Slim adds another, almost invisible version to the lift-up flap system range, opening up new design possibilities for designers and innovative craftsmen. **Let your creativity run wild.**

With the extremely slim design of the Kinvaro T-Slim, all functional components of the Kinvaro T-Slim can be perfectly milled into the cabinet wall. The result is a wall cabinet with invisible technology and maximum space.

Kinvaro
Flap Systems.

Whichever flap you open – Kinvaro flap systems ensure perfect access and maximum freedom of movement.

There are no upper limits. Unless, of course, they are your personal choice. Wall cabinets still rank among the most favoured storage solutions for kitchens. And our highly functional flap systems ensure that this does not change. Stable and reliable movement systems, smooth and silent, ergonomically well designed and easy to operate – these are the special ingredients for contemporary storage space concepts. Kinvaro flap systems therefore embody the optimum synthesis of design demands and functional movement in the spirit of modern furniture culture.







Kinvaro F
Folding flap system

The two-part front folds upwards to provide optimum access to the entire storage space. The particularly smooth movement sequence is complemented by the integrated, adjustable Soft-close damper.

Kinvaro L
Parallel lift flap system

The single front opens in parallel to the cabinet and remains fixed in any position. Parallel lift flap systems move very elegantly, are extremely strong and are particularly suitable for cupboards with kitchen equipment.

Kinvaro S
Up-and-over flap system

The single front lifts up above the cabinet at an angle and remains fixed in any position. Up-and-over flap systems are extremely stable and particularly well suited to cabinets with cornices, pelmet and attached lights.

INVISIBLE, SAFE, PRECISE AND MAGICAL.
KINVARO T-SLIM COMBINES PURIST AESTHETICS, A VERY STABLE CONSTRUCTION AND THE ART OF PERFECT MOVEMENT IN A VIRTUALLY UNIQUE MANNER. SEE FOR YOURSELF!

kinvaro t-slim.

Intelligent.
Invisible.
Beautiful.

kinvaro.com



The Kinvaro D flap stay folds down elegantly and perfectly showcases drinks compartments.

The discreet flap stay with pull cable folds drinks cabinet fronts down. Combined with the Tiomos flap hinge, the open flap is almost flush with the base panel for an aesthetic overall look. Kinvaro D can be fitted horizontally or vertically on both sides and is available in two models for different depths, flap sizes and weights. With integrated damping and available in three colours, it is an elegant fitting for perfect furniture design.



A functional and ideal partner for perfect access. As an ideal complement to Kinvaro D, the Tiomos flap hinge combines maximum opening convenience with modern design freedom.

Kinvaro D
Drinks compartment flap

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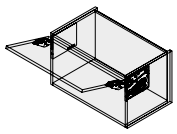
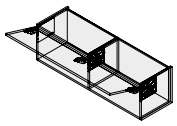
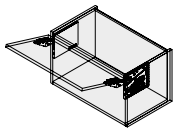
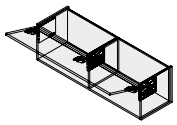
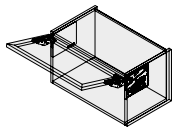
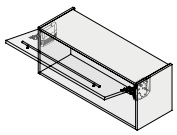
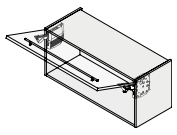
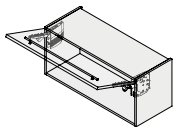
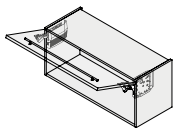
Kinvaro
Flap systems

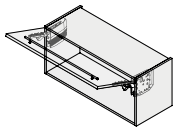
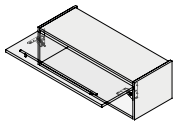
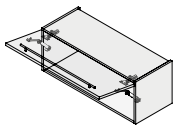
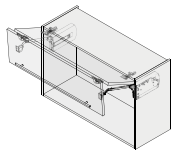
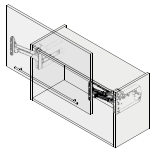
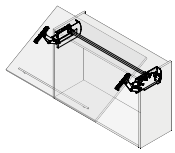
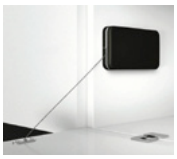
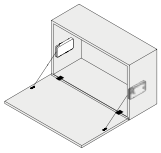
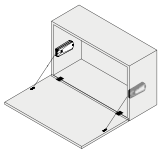
Kinvaro flap systems provide the perfect movement solution for every application. They are ideal as inset or screw-mounted versions in wall cabinets or as drinks compartment flaps.

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Kinvaro
Flap systems

Kinvaro flap systems provide the perfect movement solution for every application. They are ideal as inset or screw-mounted versions in wall cabinets or as drinks compartment flaps.

	Description		Page
	**Kinvaro T-Slim lift-up flap fitting for wooden fronts (inset)** • Flush inset flap fitting for high design requirements and maximum storage space • Inset depth: Cabinet side: 12.2 mm, front: 13.7 mm • Low opening forces and multi-position stop • Convenient adjustment of the spring force		14
	**Kinvaro T-Slim lift-up flap fitting for wide wooden fronts (inset)** • Flush inset flap fitting for high design requirements and maximum storage space • Additional fitting for wide fronts • Inset depth: Cabinet side: 12.2 mm, front: 13.7 mm • Low opening forces and multi-position stop • Convenient adjustment of the spring force		16
	**Kinvaro T-Slim lift-up flap fitting for wooden fronts (screw-mounted)** • Slim flap fitting for high design requirements and more storage space in the wall cabinet • Low opening forces and multi-position stop • Convenient adjustment of the spring force		20
	**Kinvaro T-Slim lift-up flap fitting for wide wooden fronts (screw-mounted)** • Slim flap fitting for high design requirements and more storage space in the wall cabinet • Additional fitting for wide fronts • Low opening forces and multi-position stop • Convenient adjustment of the spring force		22
	**Kinvaro T-Slim lift-up flap fitting for aluminium-framed fronts (inset)** • Flush inset flap fitting for high design requirements and maximum storage space • Front connection for combination with aluminium frame (please order separately) • Inset depth: Cabinet side: 12.2 mm • Low opening forces and multi-position stop		26
	**Kinvaro T-65 lift-up flap fitting** • Variable opening angle - holds flap securely at any angle between 45° and 100° • Extremely comfortable opening thanks to spring-supported opening mechanism • Adjustable spring force • Integrated adjustable closing damper • Adjustable flap height ±3.0 mm		34
	**Kinvaro T-70 rotary flap fitting** • Adjustable opening angle - flap stays open at any angle between 45° and 110° • Particularly easy to open thanks to spring-loaded opening mechanism • Adjustable spring force • Integrated, adjustable closing dampening • Expandable		36
	**Kinvaro T-71 lift-up flap fitting** • Variable opening angle - holds flap securely at any angle between 45° and 110° • Extremely comfortable opening thanks to spring-supported opening mechanism • Adjustable spring force • Integrated adjustable closing damper • Allows additional cabinet installation above		38
	**Kinvaro T-75 lift-up flap fitting** • Variable opening angle - holds flap securely at any angle between 45° and 110° • Extremely comfortable opening thanks to spring-supported opening mechanism • Adjustable spring force • Integrated adjustable closing damper • Allows additional cabinet installation above		40

	Description		Page
	**Kinvaro T-76 lift-up flap fitting** • Variable opening angle - holds flap securely at any angle between 45° and 110° • Extremely comfortable opening thanks to spring-supported opening mechanism • Adjustable spring force • Integrated adjustable closing damper • Allows additional cabinet installation above		42
	**Kinvaro T-57 lift-up flap fitting** • Opening angle adjustable to 75° or 90° • Easy to install • Adjustable spring force • Allows additional cabinet installation above		44
	**Kinvaro T-105 flap stay** • Variable opening angle holds flaps securely from 45˚ to 105˚ • Spring-supported opening function • Adjustable spring force • Convenient access, flap lifts clear of the work area • Allows additional cabinet installation above		46
	**Kinvaro F-20 folding flap fitting** • Holds flap securely in any position • Extremely smooth movement • Adjustable spring force • Integrated adjustable closing damper		48
	**Kinvaro L-80 parallel lift flap fitting** • Holds flap securely in any position • Extremely smooth movement • Adjustable spring force • Integrated adjustable closing damper • Allows the use of cornices, pelmets and pelmet lights		52
	**Kinvaro S-35 up-and-over flap fitting** • Securely holds flap in any position from 45° opening angle • Extremely smooth movement • Adjustable spring force • Integrated adjustable closing damper • Allows the use of cornices, pelmets and pelmet lights		54
	**Kinvaro D-M flap stay with pull cable** • Damped opening and gentle closing • Opening angle adjustable via length of pull cable • Spring force adjustment • Can be used with shallow cabinets from 110 mm depth • Flap height 200–480 mm		56
	**Kinvaro D-S flap stay with pull cable** • Damped opening • Opening angle adjustable via length of pull cable • Can be used with shallow cabinets from 82 mm depth • Flap height 200–480 mm		58

KINVARO

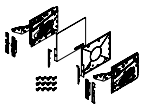
T-Slim lift-up flap fitting for wooden fronts (inset)



- Flush inset flap fitting for high design requirements and maximum storage space
- Inset depth: Cabinet side: 12.2 mm, front: 13.7 mm
- Low opening forces and multi-position stop
- Convenient adjustment of the spring force
- Fast, tool-free clip fitting of the front
- Flap with 3-dimensional adjustment of height ± 2.5 mm, side ± 2.0 mm, depth +3.0 mm/-1.0 mm
- Opening angle 107°
- Integrated opening angle limiter with optional activation (75°)
- Three different power factors
- Can be used for wooden flaps
- Cover caps and adapters in Stone, Ice and Silver (all cover caps can be painted)

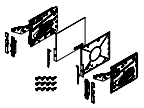
ORDER INFORMATION

Kinvaro T-Slim Soft-close for wooden flaps
Set: Fitting, front connection, cover cap, screws



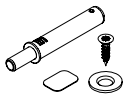
LF	Ice	Silver	Stone
250 - 550	**F151149004**	**F151149003**	**F151149002**
500 - 1100	**F151149007**	**F151149006**	**F151149005**
1000 - 2250	**F151149010**	**F151149009**	**F151149008**

Kinvaro T-Slim Tipmatic Plus for wooden flaps
Set: Fitting, front connection, cover cap, screws



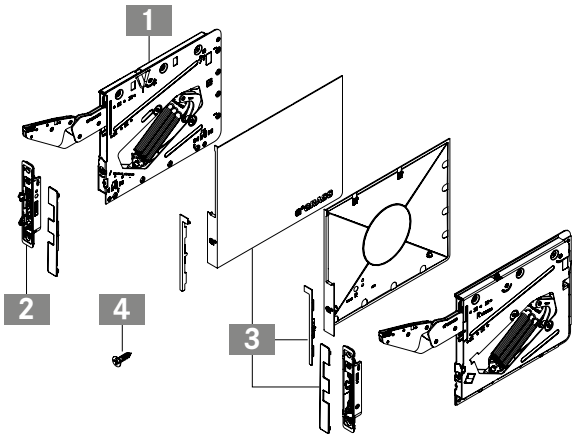
LF	Ice	Silver	Stone
250 - 550	**F151149013**	**F151149012**	**F151149011**
500 - 1100	**F151149016**	**F151149015**	**F151149014**
1000 - 2250	**F151149019**	**F151149018**	**F151149017**

Tipmatic Pin
page 60



Kinvaro T-Slim set consisting of:

1 Fitting left and right (1x)
2 Front connection left and right (1x)
3 Cover caps left and right (3x)
4 Screws (12x)
Assembly instructions (1x)



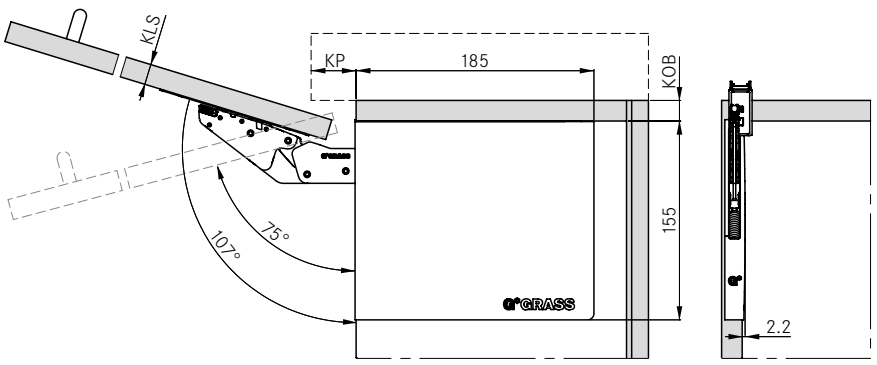
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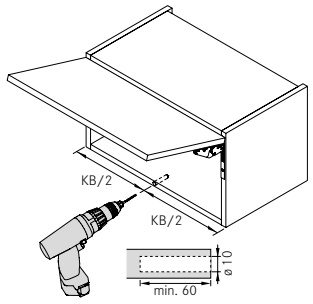
PLANNING INFORMATION

All dimensions in millimetres

Required space

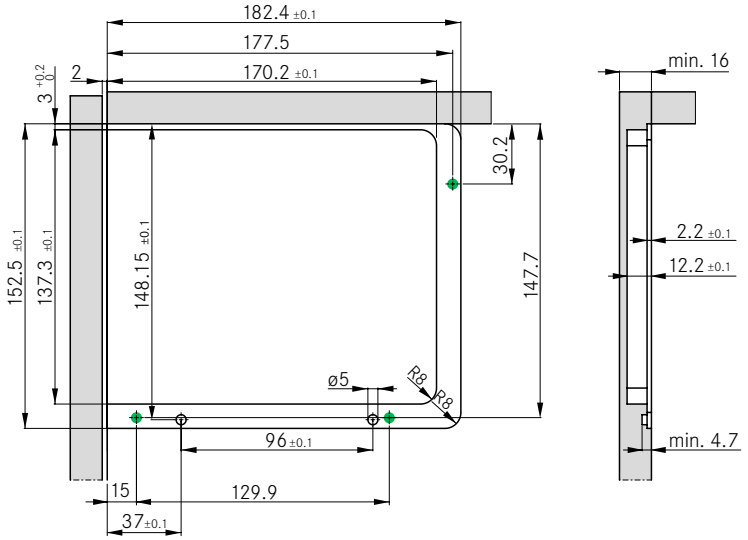


Tipmatic Pin



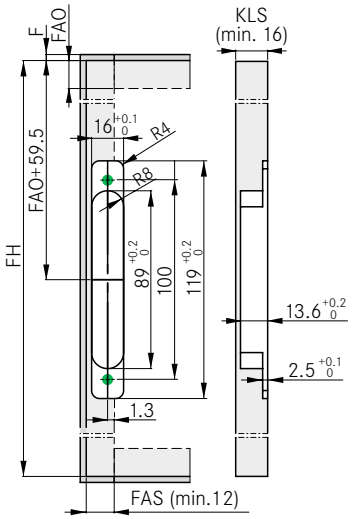
Sidewall milling position

Countersunk screw Ø 3.5 x 13



Front milling position

Countersunk screw Ø 3.5 x 13



Calculation of power factor (LF)

Flap height (mm) x {Flap weight (kg) + 2 x Handle weight (kg)}

CORNICE

Flap thickness (KLS)	Cabinet top panel (KOB) 16	18	19	20	22	24
16	67	74	77	80	87	94
18	60	67	70	73	80	87
19	57	64	67	70	77	84
20	54	60	63	67	73	80
21	50	56	60	63	69	76
22	47	53	57	60	66	73
24	40	46	50	53	60	67
26	33	40	43	46	53	60
32	12	19	22	25	32	38
	Cornice (KP)					

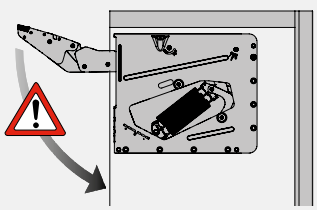
REVEAL

Flap thickness(KLS)	Front overlay top (FAO) 15	17	19	21	22
16	1	1	1	1	1
18	1	1	1	1	1
19	1	1	1	1	1
20	1	1	1	1	1
21	1	1	1	1	1
22	1	1	1	1	1
24	1.5	1	1	1	1
26	3	2.5	1.5	1	1
32	8	7	6	5.5	5
	Reveal (F)				

FLAP WEIGHT

Flap height (KLH)	Power factor flap holder (LF) 250 – 550	500 – 1100	1000 – 2250
200	1.3 – 2.8	2.5 – 5.5	5.0 – 11.3
250	1.0 – 2.2	2.0 – 4.4	4.0 – 9.0
300	0.8 – 1.8	1.7 – 3.7	3.3 – 7.5
350	0.7 – 1.6	1.4 – 3.1	2.9 – 6.4
400	0.6 – 1.4	1.3 – 2.8	2.5 – 5.6
450	0.6 – 1.2	1.1 – 2.4	2.2 – 5.0
500	0.5 – 1.1	1.0 – 2.2	2.0 – 4.5
550	0.5 – 1.0	0.9 – 2.0	1.8 – 4.1
	Flap weight (kg)		

WARNING



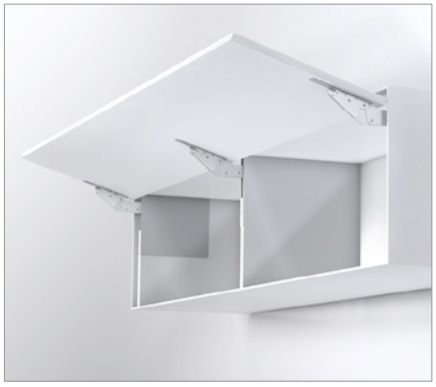
Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO

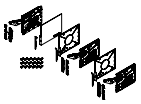
T-Slim lift-up flap fitting for wide wooden fronts (inset)



- Flush inset flap fitting for high design requirements and maximum storage space
- Additional fitting for wide fronts
- Inset depth: Cabinet side: 12.2 mm, front: 13.7 mm
- Low opening forces and multi-position stop
- Convenient adjustment of the spring force
- Fast, tool-free clip fitting of the front
- Flap with 3-dimensional adjustment of height ± 2.5 mm, side ± 2.0 mm, depth +3.0 mm/-1.0 mm
- Opening angle 107°
- Integrated opening angle limiter with optional activation (75°)
- Can be used for wooden flaps
- Cover caps and adapters in Stone, Ice and Silver (all cover caps can be painted)

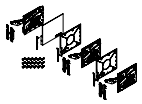
ORDER INFORMATION

Kinvaro T-Slim Soft-close for wooden flaps
Set: Fitting, front connection, cover cap, screws



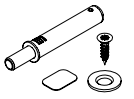
LF	Ice	Silver	Stone
1500 - 3375	**F151**149**029**	**F151**149**028**	**F151**149**027**

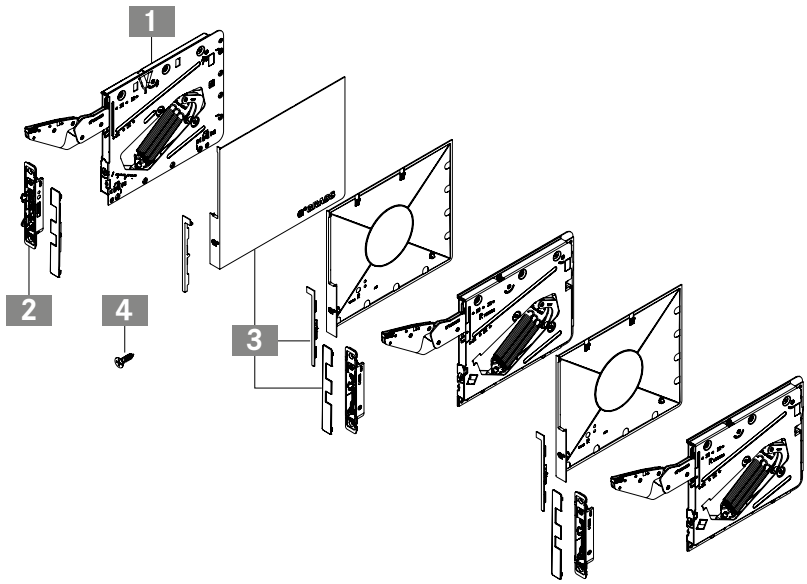
Kinvaro T-Slim Tipmatic Plus for wooden flaps
Set: Fitting, front connection, cover cap, screws



LF	Ice	Silver	Stone
1500 - 3375	**F151**149**026**	**F151**149**025**	**F151**149**024**

Tipmatic Pin
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Kinvaro T-Slim set consisting of:

1 Fitting left (1x) and right (2x)
2 Front connection left (1x) and right (2x)
3 Cover caps left (3x) and right (6x)
4 Screws (18x)
Assembly instructions (1x)

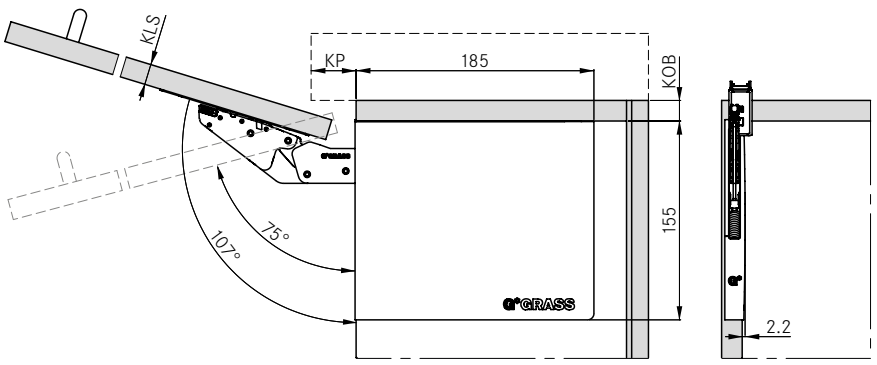
PAGE REFERENCES

Individual components	32
Kinvaro T-Slim adjustment options	62
Assembly aids	88

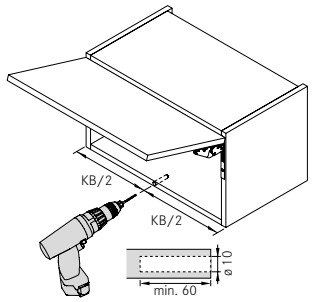
PLANNING INFORMATION

All dimensions in millimetres

Required space

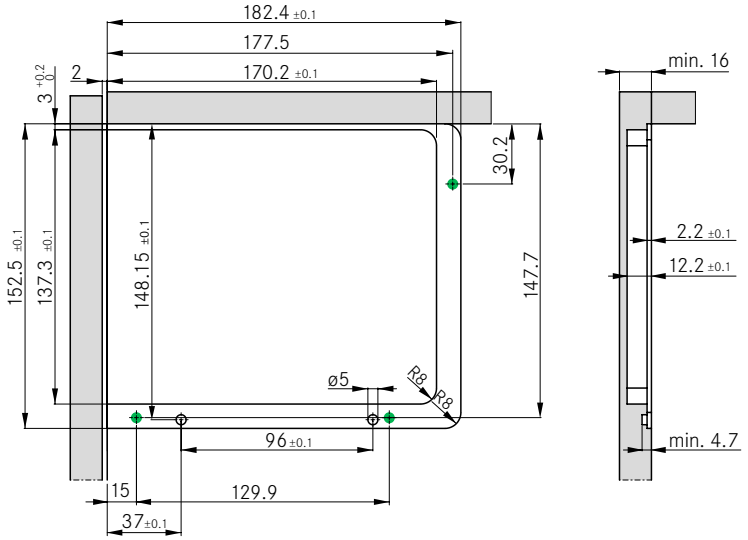


Tipmatic Pin



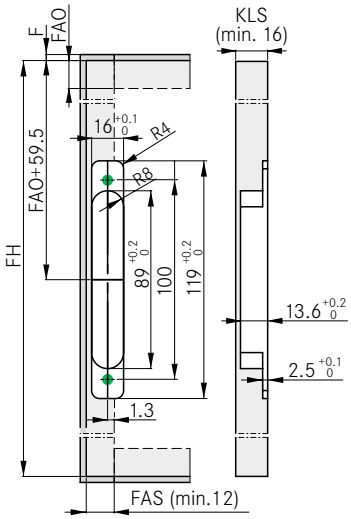
Sidewall milling position

Countersunk screw Ø 3.5 x 13



Front milling position

Countersunk screw Ø 3.5 x 13



Calculation of power factor (LF)

Flap height (mm) x {Flap weight (kg) + 2 x Handle weight (kg)}

CORNICE

Flap thickness (KLS)	Cabinet top panel (KOB) 16	18	19	20	22	24
16	67	74	77	80	87	94
18	60	67	70	73	80	87
19	57	64	67	70	77	84
20	54	60	63	67	73	80
21	50	56	60	63	69	76
22	47	53	57	60	66	73
24	40	46	50	53	60	67
26	33	40	43	46	53	60
32	12	19	22	25	32	38
	Cornice (KP)					

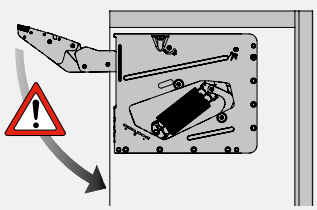
REVEAL

Flap thickness (KLS)	Front overlay top (FAO) 15	17	19	21	22
16	1	1	1	1	1
18	1	1	1	1	1
19	1	1	1	1	1
20	1	1	1	1	1
21	1	1	1	1	1
22	1	1	1	1	1
24	1.5	1	1	1	1
26	3	2.5	1.5	1	1
32	8	7	6	5.5	5
	Reveal (F)				

FLAP WEIGHT

Flap height (KLH)	Power factor flap holder (LF) 1500 – 3375
200	7.5 – 16.9
250	6.0 – 13.5
300	5.0 – 11.3
350	4.3 – 9.6
400	3.8 – 8.4
450	3.3 – 7.5
500	3.0 – 6.8
550	2.7 – 6.1
	Flap weight (kg)

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

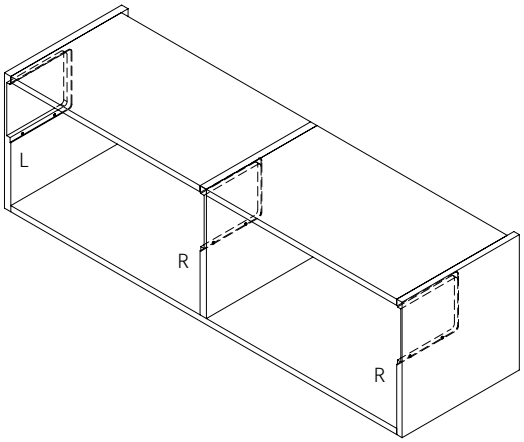
F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

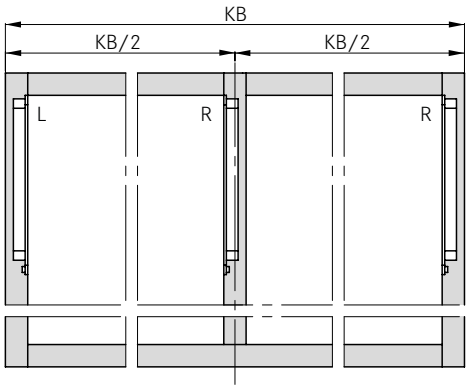
KINVARO

T-Slim lift-up flap fitting for wide wooden fronts (inset)

ASSEMBLY AND INSTALLATION INSTRUCTIONS

Position for third fitting

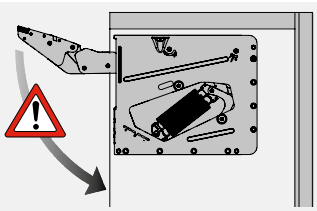




PAGE REFERENCES

Individual components	32				
Kinvaro T-Slim adjustment options	62				
Assembly aids	88				

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO

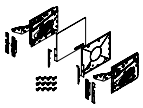
T-Slim lift-up flap fitting for wooden fronts (screw-mounted)



- Slim flap fitting for high design requirements and more storage space in the wall cabinet
- Low opening forces and multi-position stop
- Convenient adjustment of the spring force
- Fast, tool-free clip fitting of the front
- Flap with 3-dimensional adjustment of height ± 2.5 mm, side ± 2.0 mm, depth +3.0 mm/-1.0 mm
- No hinges fitted to the top panel
- Opening angle 107°
- Integrated opening angle limiter with optional activation (75°)
- Three different power factors
- Can be used for wooden flaps
- Cover caps and adapters in Stone, Ice and Silver (all cover caps can be painted)

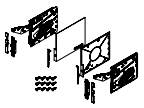
ORDER INFORMATION

Kinvaro T-Slim Soft-close for wooden flaps
Set: Fitting, front connection, cover cap, screws



LF	Ice	Silver	Stone
250 - 550	**F151149004**	**F151149003**	**F151149002**
500 - 1100	**F151149007**	**F151149006**	**F151149005**
1000 - 2250	**F151149010**	**F151149009**	**F151149008**

Kinvaro T-Slim Tipmatic Plus for wooden flaps
Set: Fitting, front connection, cover cap, screws



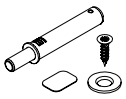
LF	Ice	Silver	Stone
250 - 550	**F151149013**	**F151149012**	**F151149011**
500 - 1100	**F151149016**	**F151149015**	**F151149014**
1000 - 2250	**F151149019**	**F151149018**	**F151149017**

Adapter for screw-mounted Kinvaro T-Slim version incl. screws
Set: Left, Right



	Ice	Silver	Stone	
	F161149022	**F161149021**	**F161149020**	

Tipmatic Pin
page 60

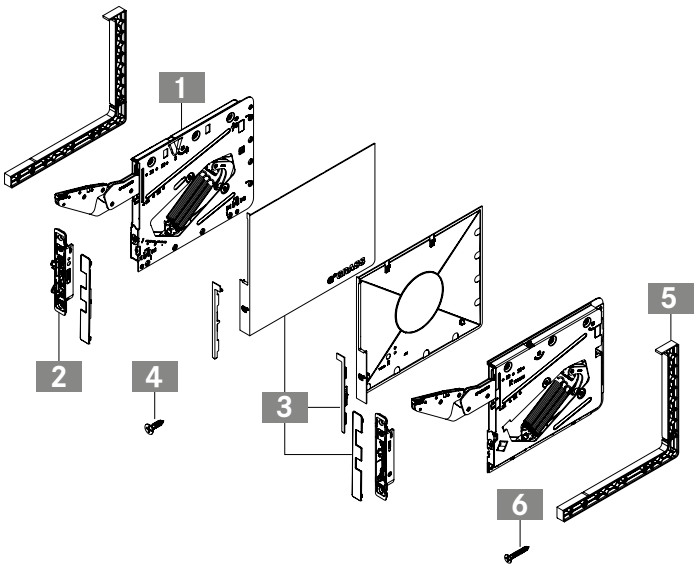


Kinvaro T-Slim set consisting of:

1 Fitting left and right (1x)
2 Front connection left and right (1x)
3 Cover caps left and right (3x)
4 Screws (12x)
Assembly instructions (1x)

Adapter set consisting of:

5 Adapter left and right (1x)
6 Screws (8x)



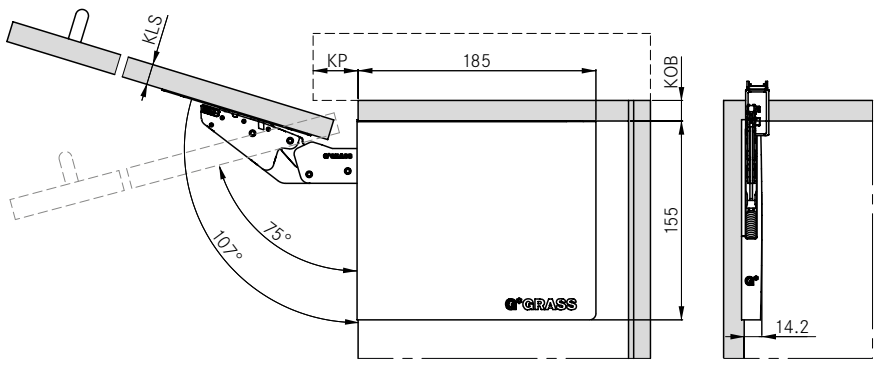
PAGE REFERENCES

Individual components	32				
Kinvaro T-Slim adjustment options	62				
Assembly aids	88				

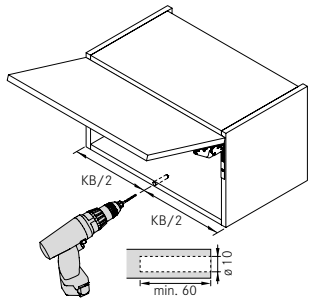
PLANNING INFORMATION

All dimensions in millimetres

Required space

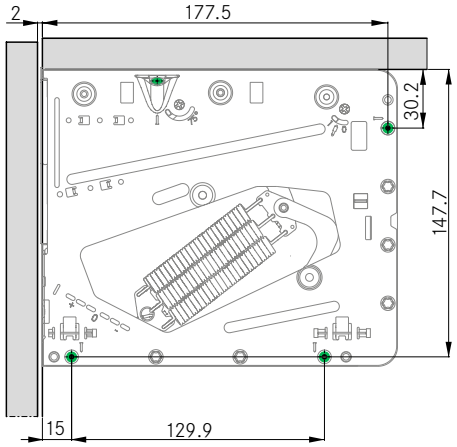


Tipmatic Pin



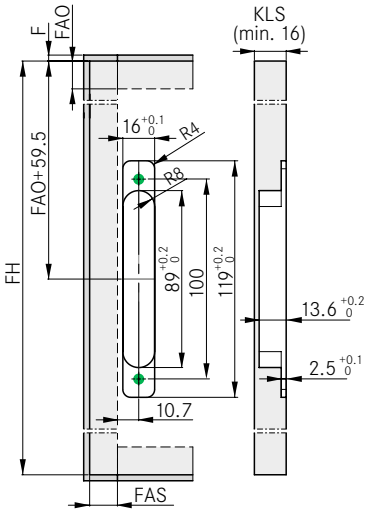
Sidewall screw-on position

Countersunk screw Ø 3.5 x 25



Front milling position

Countersunk screw Ø 3.5 x 13



Calculation of power factor (LF)

Flap height (mm) x {Flap weight (kg) + 2 x Handle weight (kg)}

CORNICE

Flap thickness (KLS)	Cabinet top panel (KOB) 16	18	19	20	22	24
16	67	74	77	80	87	94
18	60	67	70	73	80	87
19	57	64	67	70	77	84
20	54	60	63	67	73	80
21	50	56	60	63	69	76
22	47	53	57	60	66	73
24	40	46	50	53	60	67
26	33	40	43	46	53	60
32	12	19	22	25	32	38
	Cornice (KP)					

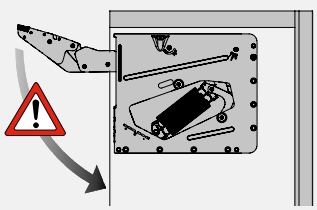
REVEAL

Flap thickness (KLS)	Front overlay top (FAO) 15	17	19	21	22
16	1	1	1	1	1
18	1	1	1	1	1
19	1	1	1	1	1
20	1	1	1	1	1
21	1	1	1	1	1
22	1	1	1	1	1
24	1.5	1	1	1	1
26	3	2.5	1.5	1	1
32	8	7	6	5.5	5
	Reveal (F)				

FLAP WEIGHT

Flap height (KLH)	Power factor flap holder (LF) 250 – 550	500 – 1100	1000 – 2250
200	1.3 – 2.8	2.5 – 5.5	5.0 – 11.3
250	1.0 – 2.2	2.0 – 4.4	4.0 – 9.0
300	0.8 – 1.8	1.7 – 3.7	3.3 – 7.5
350	0.7 – 1.6	1.4 – 3.1	2.9 – 6.4
400	0.6 – 1.4	1.3 – 2.8	2.5 – 5.6
450	0.6 – 1.2	1.1 – 2.4	2.2 – 5.0
500	0.5 – 1.1	1.0 – 2.2	2.0 – 4.5
550	0.5 – 1.0	0.9 – 2.0	1.8 – 4.1
	Flap weight (kg)		

WARNING



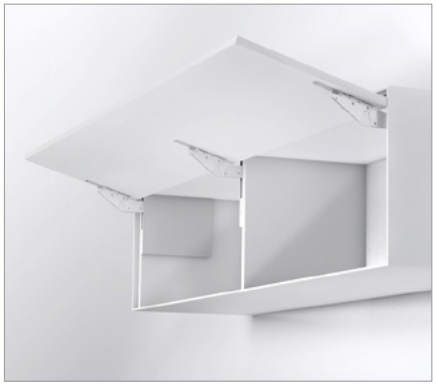
Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO

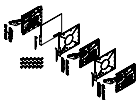
T-Slim lift-up flap fitting for wide wooden fronts (screw-mounted)



- Slim flap fitting for high design requirements and more storage space in the wall cabinet
- Additional fitting for wide fronts
- Low opening forces and multi-position stop
- Convenient adjustment of the spring force
- Fast, tool-free clip fitting of the front
- Flap with 3-dimensional adjustment of height ± 2.5 mm, side ± 2.0 mm, depth +3.0 mm/-1.0 mm
- No hinges fitted to the top panel
- Opening angle 107°
- Integrated opening angle limiter with optional activation (75°)
- Can be used for wooden flaps
- Cover caps and adapters in Stone, Ice and Silver (all cover caps can be painted)

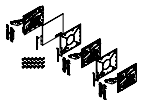
ORDER INFORMATION

Kinvaro T-Slim Soft-close for wooden flaps
Set: Fitting, front connection, cover cap, screws



LF	Ice	Silver	Stone
1500 - 3375	**F151**149**029**	**F151**149**028**	**F151**149**027**

Kinvaro T-Slim Tipmatic Plus for wooden flaps
Set: Fitting, front connection, cover cap, screws



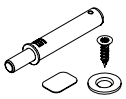
LF	Ice	Silver	Stone
1500 - 3375	**F151**149**026**	**F151**149**025**	**F151**149**024**

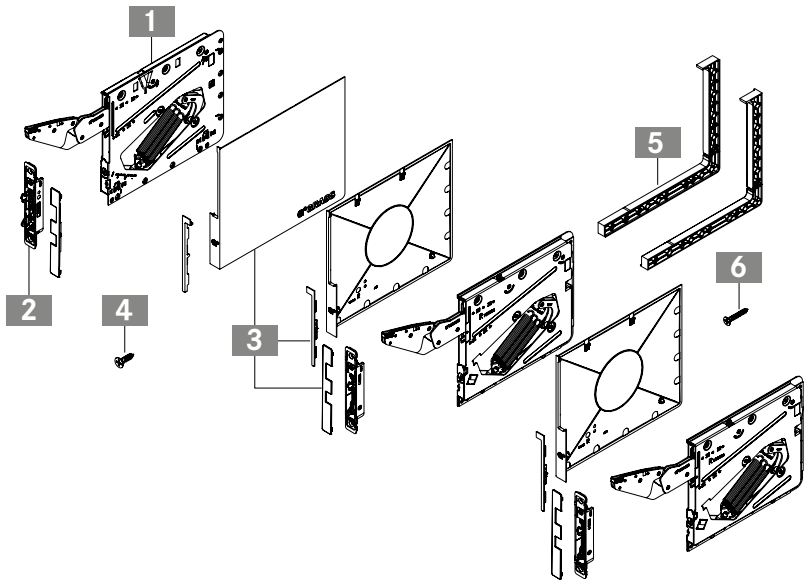
Adapter for screw-mounted Kinvaro T-Slim version incl. screws
Set: Left, Right



	Ice	Silver	Stone	
	F161149**022**	**F161**149**021**	**F161**149**020**	

Tipmatic Pin
page 60





Kinvaro T-Slim set consisting of:

1 Fitting left (1x) and right (2x)
2 Front connection left (1x) and right (2x)
3 Cover caps left (3x) and right (6x)
4 Screws (18x)
Assembly instructions (1x)

Adapter set consisting of:

5 Adapter left and right (1x)
6 Screws (8x)

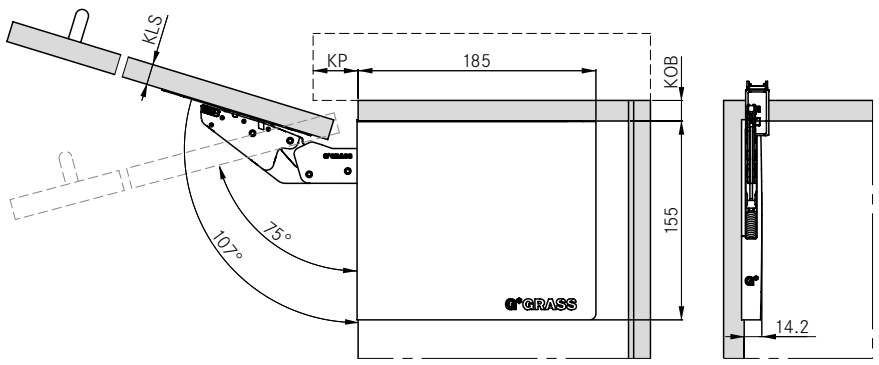
PAGE REFERENCES

Individual components	32
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Assembly aids	88

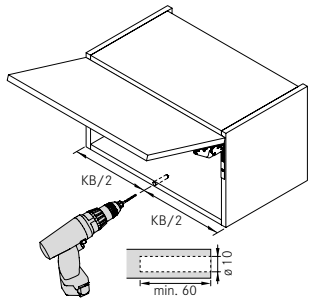
PLANNING INFORMATION

All dimensions in millimetres

Required space

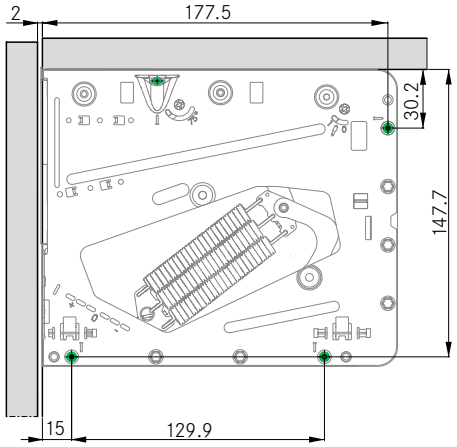


Tipmatic Pin



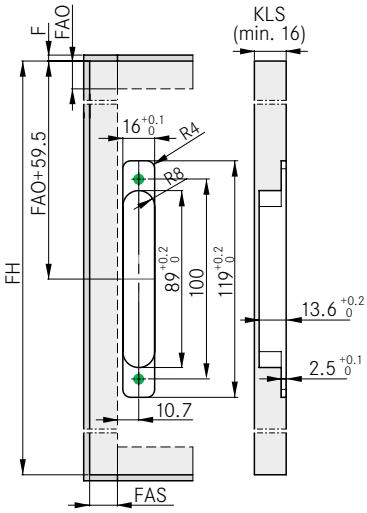
Sidewall screw-on position

Countersunk screw Ø 3.5 x 25



Front milling position

Countersunk screw Ø 3.5 x 13



Calculation of power factor (LF)

Flap height (mm) x {Flap weight (kg) + 2 x Handle weight (kg)}

CORNICE

Flap thickness (KLS)	Cabinet top panel (KOB) 16	18	19	20	22	24
16	67	74	77	80	87	94
18	60	67	70	73	80	87
19	57	64	67	70	77	84
20	54	60	63	67	73	80
21	50	56	60	63	69	76
22	47	53	57	60	66	73
24	40	46	50	53	60	67
26	33	40	43	46	53	60
32	12	19	22	25	32	38
	Cornice (KP)					

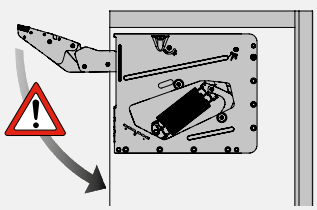
REVEAL

Flap thickness (KLS)	Front overlay top (FAO) 15	17	19	21	22
16	1	1	1	1	1
18	1	1	1	1	1
19	1	1	1	1	1
20	1	1	1	1	1
21	1	1	1	1	1
22	1	1	1	1	1
24	1.5	1	1	1	1
26	3	2.5	1.5	1	1
32	8	7	6	5.5	5
	Reveal (F)				

FLAP WEIGHT

Flap height (KLH)	Power factor flap holder (LF) 1500 – 3375
200	7.5 – 16.9
250	6.0 – 13.5
300	5.0 – 11.3
350	4.3 – 9.6
400	3.8 – 8.4
450	3.3 – 7.5
500	3.0 – 6.8
550	2.7 – 6.1
	Flap weight (kg)

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

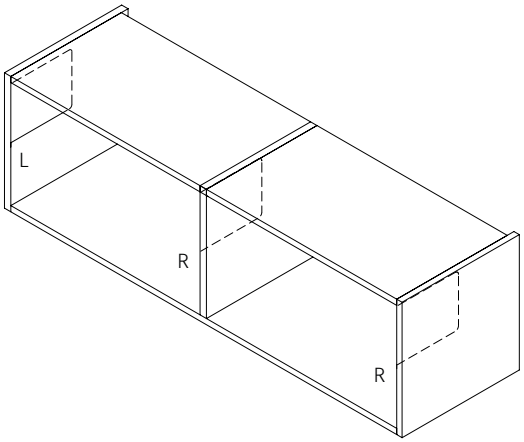
F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

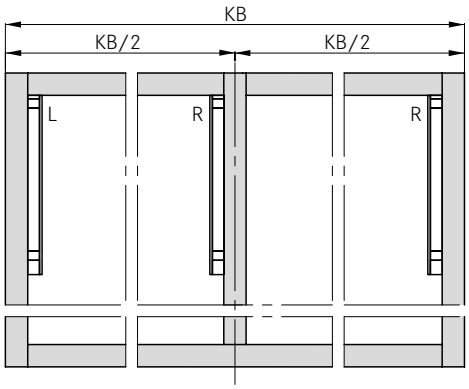
KINVARO

T-Slim lift-up flap fitting for wide wooden fronts (screw-mounted)

ASSEMBLY AND INSTALLATION INSTRUCTIONS

Position for third fitting

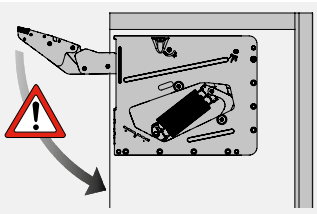




PAGE REFERENCES

Individual components	32				
Kinvaro T-Slim adjustment options	62				
Assembly aids	88				

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO

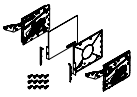
T-Slim lift-up flap fitting for aluminium-framed fronts (inset)



- Flush inset flap fitting for high design requirements and maximum storage space
- Front connection for combination with aluminium frame (please order separately)
- Inset depth: Cabinet side: 12.2 mm
- Low opening forces and multi-position stop
- Convenient adjustment of the spring force
- Fast, tool-free clip fitting of the front
- Flap with 3-dimensional adjustment of height ± 2.5 mm, side ± 2.0 mm, depth +3.0 mm/-1.0 mm
- Opening angle 107°
- Integrated opening angle limiter with optional activation (75°)
- Three different power factors
- Cover caps and adapters in Stone, Ice and Silver (all cover caps can be painted)

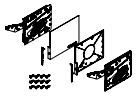
ORDER INFORMATION

Kinvaro T-Slim Soft-close without front connection
Set: Fitting, cover cap, screws



LF	Ice	Silver	Stone
250 - 550	**F151**149**040**	**F151**149**039**	**F151**149**038**
500 - 1100	**F151**149**043**	**F151**149**042**	**F151**149**041**
1000 - 2250	**F151**149**046**	**F151**149**045**	**F151**149**044**

Kinvaro T-Slim Tipmatic Plus without front connection
Set: Fitting, cover cap, screws



LF	Ice	Silver	Stone
250 - 550	**F151**149**049**	**F151**149**048**	**F151**149**047**
500 - 1100	**F151**149**052**	**F151**149**051**	**F151**149**050**
1000 - 2250	**F151**149**055**	**F151**149**054**	**F151**149**053**

Kinvaro T-Slim accessory set for aluminium frames
Set: Front connection, corner connector, screws



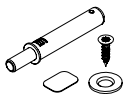
	Suitable for	Art. no.
	Aluminium frame	**F161**149**100**

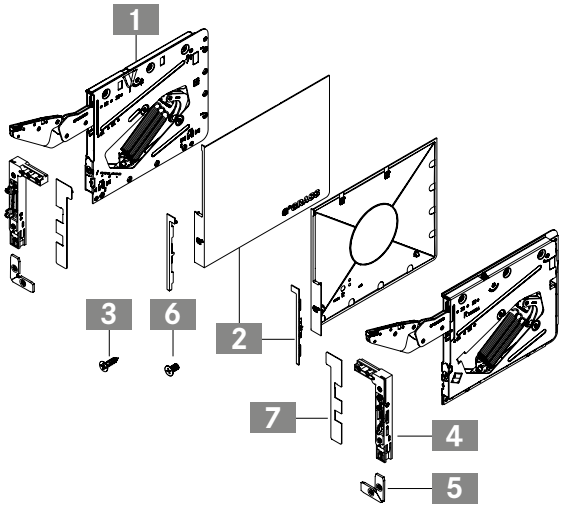
Kinvaro T-Slim cover cap for front connection
Pair: Left, Right



	Black			
	F161149**081**			

Tipmatic Pin
page 60





Kinvaro T-Slim set consisting of:

1 Fitting left and right (1x)
2 Cover caps left and right (2x)
3 Screws (12x)
Assembly instructions (1x)

Accessories and cover cap for aluminium frame consisting of:

5 Adapter left and right (1x)
6 Screws (8x)

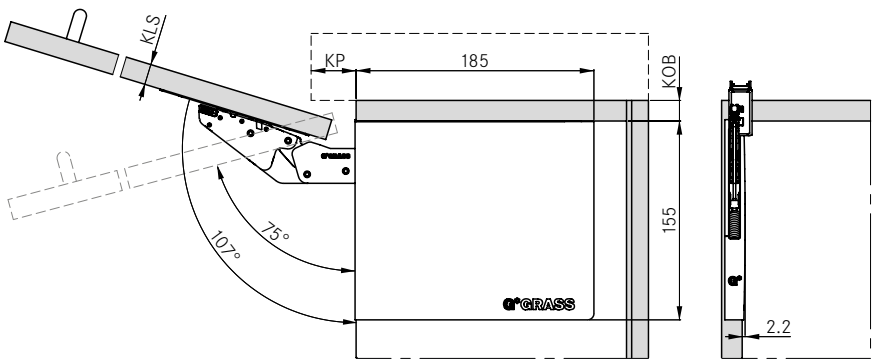
PAGE REFERENCES

Individual components	32	Aluminium frame	30		
Kinvaro T-Slim adjustment options	62				
Assembly aids	88				

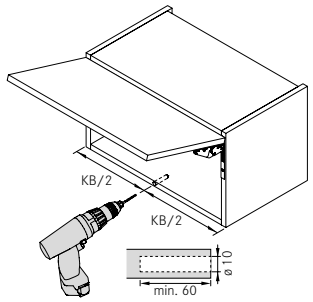
PLANNING INFORMATION

All dimensions in millimetres

Required space

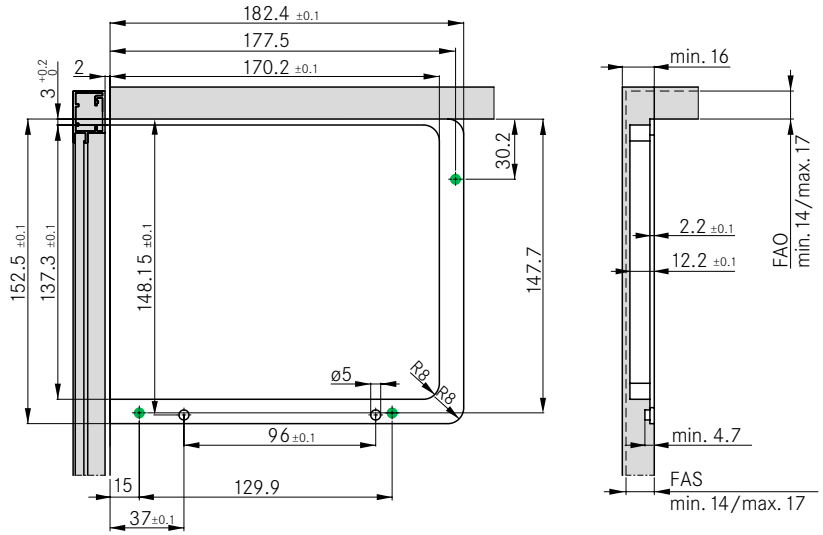


Tipmatic Pin



Sidewall milling position

Countersunk screw Ø 3.5 x 13



Calculation of power factor (LF)

Flap height (mm) x {Flap weight (kg) + 2 x Handle weight (kg)}

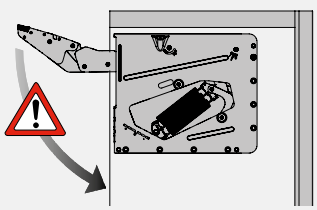
CORNICE

Flap thickness (KLS)	Cabinet top panel (KOB)					
	16	18	19	20	22	24
19	57	64	67	70	77	84
Cornice (KP)						

FLAP WEIGHT

Flap height (KLH)	Power factor flap holder (LF)		
	250 – 550	500 – 1100	1000 – 2250
200	1.3 – 2.8	2.5 – 5.5	5.0 – 11.3
250	1.0 – 2.2	2.0 – 4.4	4.0 – 9.0
300	0.8 – 1.8	1.7 – 3.7	3.3 – 7.5
350	0.7 – 1.6	1.4 – 3.1	2.9 – 6.4
400	0.6 – 1.4	1.3 – 2.8	2.5 – 5.6
450	0.6 – 1.2	1.1 – 2.4	2.2 – 5.0
500	0.5 – 1.1	1.0 – 2.2	2.0 – 4.5
550	0.5 – 1.0	0.9 – 2.0	1.8 – 4.1
Flap weight (kg)			

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

FAO	Front overlay top
FAS	Front overlay, side
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

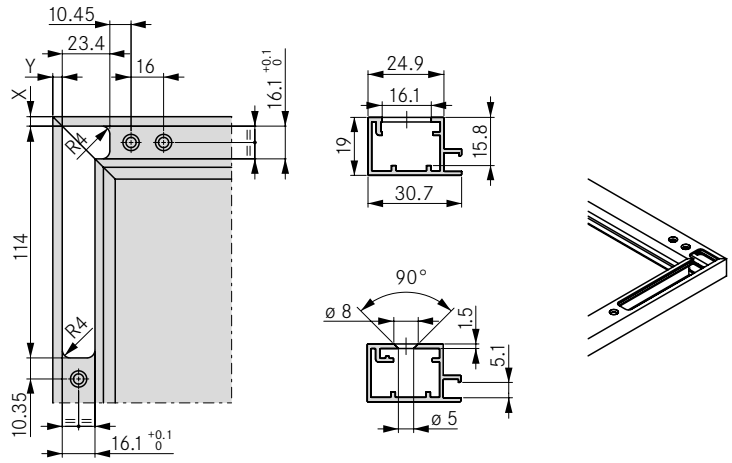
KINVARO

T-Slim lift-up flap fitting for aluminium-framed fronts (inset)

ASSEMBLY AND INSTALLATION INSTRUCTIONS

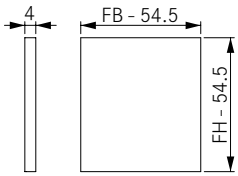
Milling position for aluminium frame front connection

Countersunk screw M4 x 10



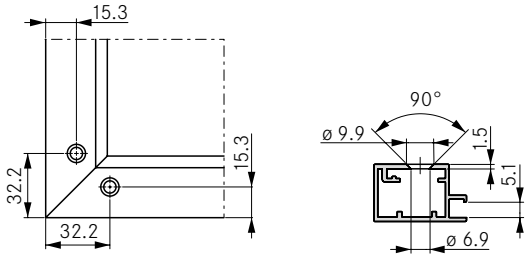
All dimensions without tolerance ± 0.1

Glass dimensions



Drilling position for aluminium frame corner connector

Countersunk screw M5 x 8



FRONT OVERLAY TOP

Front overlay top (FAO)	X				
14	4.65				
15	5.65				
16	6.65				
17	7.65				

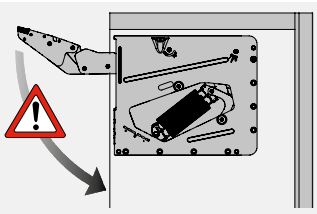
FRONT OVERLAY, SIDE

Front overlay, side (FAS)	Y				
14	4.65				
15	5.65				
16	6.65				
17	7.65				

PAGE REFERENCES

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Assembly aids	88				

WARNING



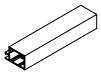
Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

FAO	Front overlay top
FAS	Front overlay, side
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO
T-Slim aluminium frame

ALUMINIUM PROFILE FROM SCHÜCO

	Colour	Material						Art. no.
	Black	Aluminium						**980037.65.00**
	Inox							**980037.67.00**
	Stainless steel							**980037.64.00**

SCHÜCO CORNER CONNECTOR FOR ALUMINIUM PROFILE

	Suitable for							Art. no.
	Glass frames							**550484.98.00**

COUNTERSUNK SCREW FOR SCHÜCO CORNER CONNECTORS

	Ø	Screw length	DIN	Internal drive	Surface			Art. no.
	M5	8 mm	965	Z2	Nickel plated			**511571.00.00**

RATTLE PROTECTION FOR SCHÜCO ALUMINIUM PROFILE

Description				Art. no.
Rattle protection for Schüco aluminium profile				**532917.00.00**

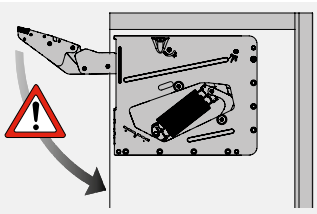
NOTICE

Aluminium frames and accessories can be ordered from the distributor, quoting the respective Schüco article number. The distributor also supplies precisely dimensioned prefabricated glass aluminium frames.

PAGE REFERENCES

Kinvaro T-Slim adjustment options	62				
Assembly aids	88				

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO

T-Slim lift-up flap fitting individual components

ORDER INFORMATION

Kinvaro T-Slim Soft-close fitting
Piece



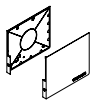
LF	Left	Right	
250 - 550	**F151149056**	**F151149057**	
500 - 1100	**F151149058**	**F151149059**	
1000 - 2250	**F151149060**	**F151149061**	

Kinvaro T-Slim Tipmatic Plus fitting
Piece



LF	Left	Right	
250 - 550, 500 - 1100	**F151149064**		
1000 - 2250	**F151149066**	**F151149067**	
250 - 550		**F151149063**	
500 - 1100		**F151149065**	

Kinvaro T-Slim cover cap for fitting
Piece



Assembly position	Ice	Silver	Stone
Left	**F161149111**	**F161149109**	**F161149107**
Right	**F161149112**	**F161149110**	**F161149108**

Kinvaro T-Slim cover cap for front fitting
Pair: Left front, Right front



	Ice	Silver	Stone	
	F161149074	**F161149073**	**F161149072**	

Kinvaro T-Slim front connection for engineered wood flaps
Piece



	Left	Right		
	F161149076	**F161149077**		

Kinvaro T-Slim cover cap for front connection for flaps made of engineered wood
Pair: Left, Right



	Nickel			
	F161149080			

Kinvaro T-Slim front connection for aluminium frames
Piece



	Left	Right		
	F161149078	**F161149079**		

Kinvaro T-Slim Corner connectors for aluminium frames
Pair: Left, Right



	Suitable for	Art. no.
	Aluminium frame	**F161149082**

Kinvaro T-Slim cover cap for front connection for aluminium frame
Pair: Left, Right



	Black	Stainless steel		
	F161149081	**F161149106**		

Adapter for screw-mounted Kinvaro T-Slim version incl. screws
Set: Left, Right

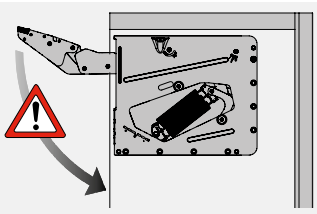


	Ice	Silver	Stone	
	F161149022	**F161149021**	**F161149020**	

PAGE REFERENCES

Kinvaro T-Slim adjustment options	62				
Assembly aids	88				

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
FH	Front height
KB	Cabinet width
KLS	Flap thickness
KOB	Cabinet top panel
KP	Cornice
LF	Power factor flap holder

KINVARO
T-65 lift-up flap fitting



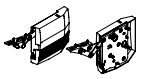
- Variable opening angle - holds flap securely at any angle between 45° and 100°
- Extremely comfortable opening thanks to spring-supported opening mechanism
- Adjustable spring force
- Integrated adjustable closing damper
- Adjustable flap height ±3.0 mm
- No hinges fitted to the top panel
- Allows additional cabinet installation above
- Weight 0.7 to 7.4 kg
- Range of flaps:
  Width: up to 1,200 mm
  Height: 250–600 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

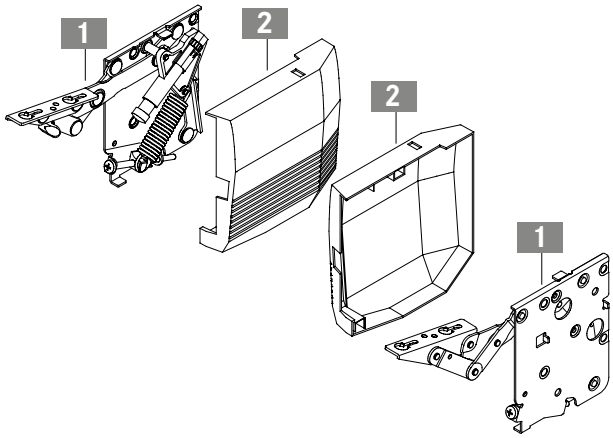
Flap height	Flap weight incl. handle (kg)		
	Spring on one side yellow	Spring on both sides yellow	Spring on both sides black
250	0.9 – 2.1	1.8 – 4.2	2.4 – 7.4
300	0.7 – 1.7	1.4 – 3.4	2.0 – 6.3
350	-	1.0 – 2.9	1.7 – 5.4
400	-	0.8 – 2.5	1.5 – 4.7
450	-	0.7 – 2.2	1.3 – 4.2
500	-	0.6 – 2.0	1.3 – 3.9
550	-	-	1.3 – 3.4
600	-	-	1.3 – 3.1

ORDER INFORMATION

Kinvaro T-65 set
Set: Lift-up flap fitting with damping, black springs (pre-assembled), yellow springs (loose), cover caps



Suitable for	Grey	White	
Wood connection	**F151**147**682**	**F151**147**797**	



Kinvaro T-65 set consisting of:

1 Fitting right without and left with damping (1x)
2 Cover caps right and left (1x)
Yellow loose springs (2x)
Paper template (1x)
Assembly instructions (1x)

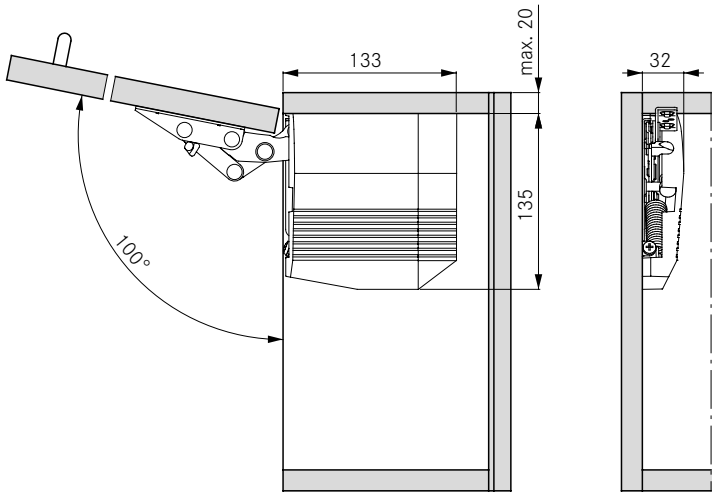
PAGE REFERENCES

Kinvaro T-65 adjustment options	64				
Assembly aids	88				

PLANNING INFORMATION

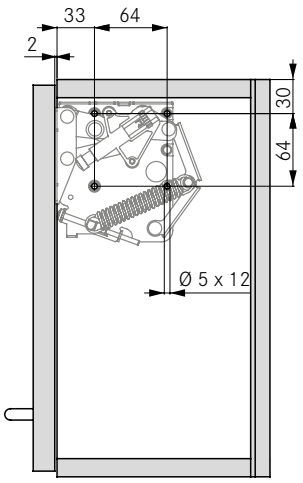
All dimensions in millimetres

Required space

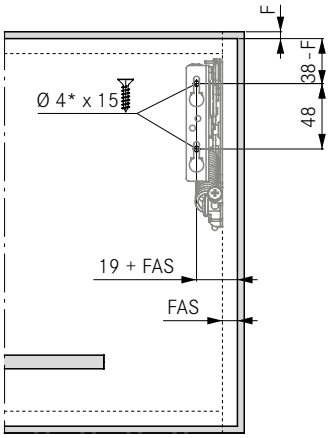


Side wall drilling positions

Euro screw Ø 6.3 x 13



Front installation for wooden and frame flaps (min. 45 mm width)



* Pre-drilling required Ø 2 mm

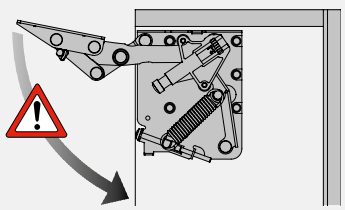
Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAS	Front overlay, side

KINVARO
T-70 rotary flap fitting



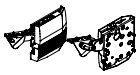
- Adjustable opening angle - flap stays open at any angle between 45° and 110°
- Particularly easy to open thanks to spring-loaded opening mechanism
- Adjustable spring force
- Integrated, adjustable closing dampening
- Height-adjustable flap ±2.0 mm
- No hinges on the top panel
- Expandable
- Weight 1.4 - 8.5 kg
- Flap range:
  Width: up to 1200 mm
  Height: 300 - 600 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

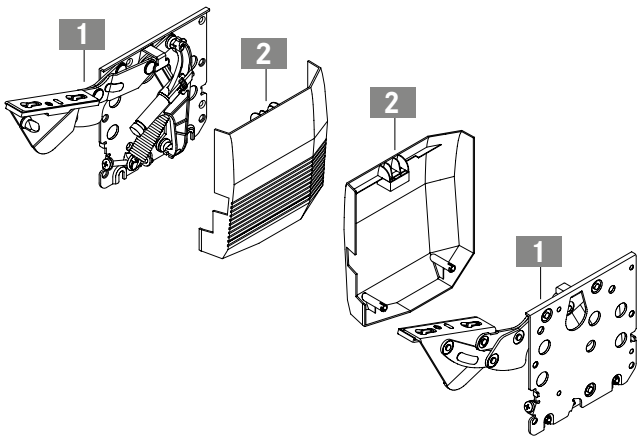
Flap height	Flap weight incl. handle (kg)	
	Spring white	Spring orange
300	2.1 - 7.4	2.5 - 8.5
350	1.8 - 6.3	2.3 - 7.5
400	1.7 - 5.4	2.1 - 6.8
450	1.6 - 4.7	2.0 - 5.8
500	1.5 - 4.0	1.8 - 5.0
550	1.4 - 3.7	1.6 - 4.6
600	1.4 - 3.3	1.4 - 4.2

ORDER INFORMATION

Kinvaro T-70 set
Set: Lift-up flap fitting with damping, white springs (pre-assembled), orange springs (loose), cover caps



Suitable for	Grey	White	
Wood connection	**F151**147**692**	**F151**147**693**	



Kinvaro T-70 set consisting of:

1 Fitting right without and left with damping (1x)
2 Cover caps right and left (1x)
Orange loose springs (2x)
Paper template (1x)
Assembly instructions (1x)

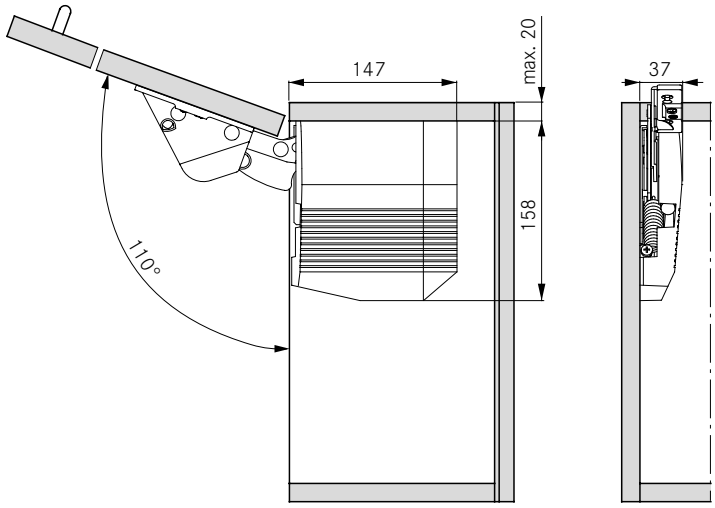
PAGE REFERENCES

Kinvaro T-70 adjustment options	66				
Assembly aids	88				

PLANNING INFORMATION

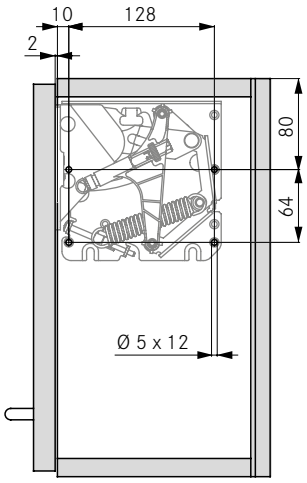
All dimensions in millimetres

Required space

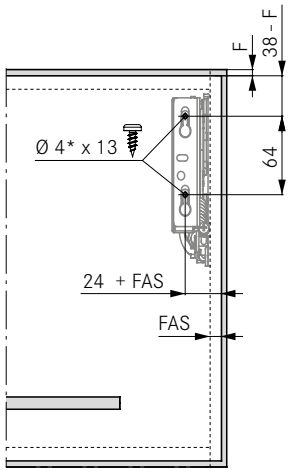


Side wall
drilling position

Euro screw Ø 6.3 x 13



Front
installation for wooden and frame flaps (min. 55 mm width)



* Pre-drilling required Ø 2 mm

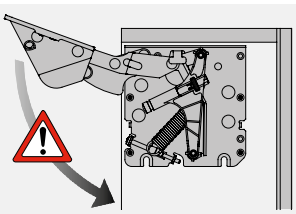
Calculation of flap weight

Flap width x flap height x flap thickness x specific weight[1] + handle weight[2] = flap weight

[1] specific weights: MDF material 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] Bar handles have a weight of 0.1 kg per 100 mm handle width. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAS	Front overlay, side

KINVARO
T-71 lift-up flap fitting



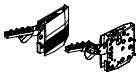
- Variable opening angle - holds flap securely at any angle between 45° and 110°
- Extremely comfortable opening thanks to spring-supported opening mechanism
- Adjustable spring force
- Integrated adjustable closing damper
- Flap with 3-dimensional adjustment – height, side, angle: direct adjustment ±1.5 mm
- No hinges fitted to the top panel
- Allows additional cabinet installation above
- Can be used for wooden flaps or aluminium frames with glass infill
- Weight 1.4 to 8.5 kg
- Range of flaps:
  Width: up to 1,200 mm
  Height: 300-600 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

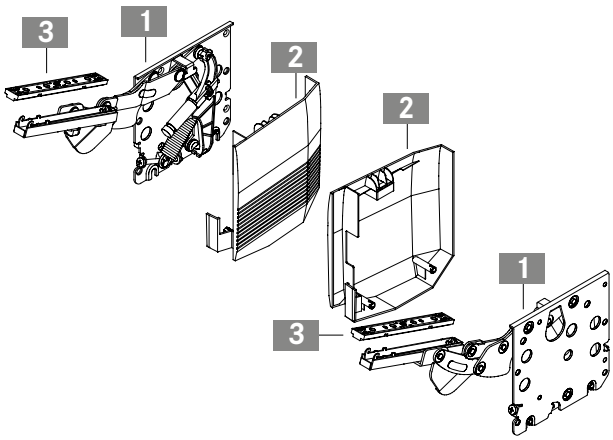
Flap height	Flap weight incl. handle (kg)	
	Spring white	Spring orange
300	2.1-7.4	2.5-8.5
350	1.8-6.3	2.3-7.5
400	1.7-5.4	2.1-6.8
450	1.6-4.7	2.0-5.8
500	1.5-4.0	1.8-5.0
550	1.4-3.7	1.6-4.6
600	1.4-3.3	1.4-4.2

ORDER INFORMATION

Kinvaro T-71 set
Set: Lift-up flap fitting with damping, white springs (pre-assembled), orange springs (loose), cover caps



Suitable for	Grey	White	
Wood connection	**F151**147**696**	**F151**147**811**	



Kinvaro T-71 set consisting of:

1 Fitting right without and left with damping (1x)
2 Cover caps right and left (1x)
3 Mounting plates (2x)
Orange loose springs (2x)
Paper template (1x)
Assembly instructions (1x)

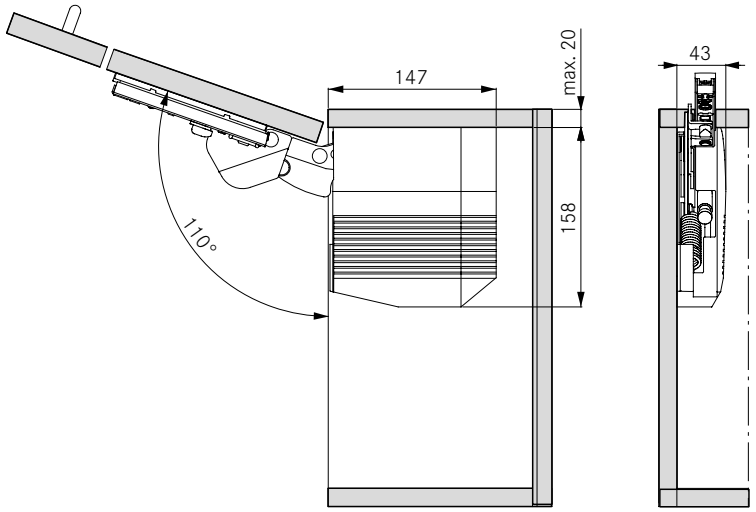
PAGE REFERENCES

Kinvaro T-71 adjustment options	68
Assembly aids	88

PLANNING INFORMATION

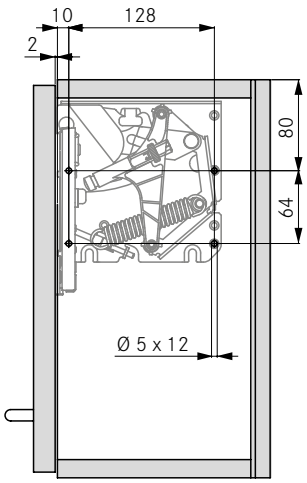
All dimensions in millimetres

Required space

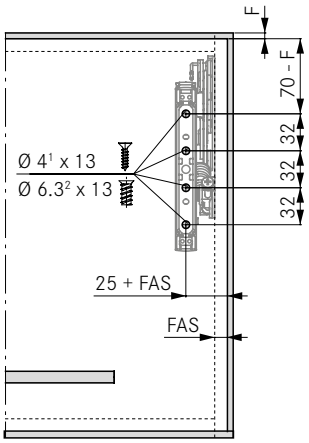


Side wall drilling position

Euro screw Ø 6.3 x 13



Front installation for wooden and frame flaps (min. 55 mm width)



¹ Pre-drilling required Ø 2 mm
² Pre-drilling required Ø 5 mm

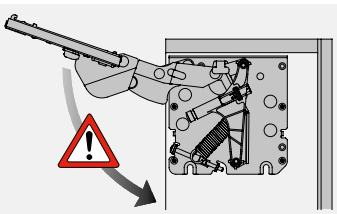
Calculation of flap weight

Flap width x flap height x flap thickness x density ¹ + weight of handle ² = weight of flap

¹ Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

² For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAS	Front overlay, side

KINVARO
T-75 lift-up flap fitting



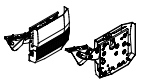
- Variable opening angle - holds flap securely at any angle between 45° and 110°
- Extremely comfortable opening thanks to spring-supported opening mechanism
- Adjustable spring force
- Integrated adjustable closing damper
- Adjustable flap height ±2.0 mm
- No hinges fitted to the top panel
- Allows additional cabinet installation above
- Weight 5.2 to 11.0 kg
- Range of flaps:
  Width: up to 1,200 mm
  Height: 400-600 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

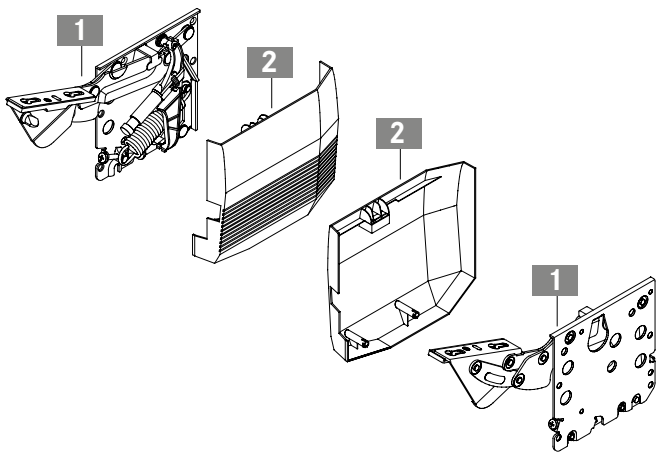
Flap height	Flap weight incl. handle (kg)
	Spring standard
400	7.0-11.0
450	6.7-9.6
500	5.8-8.5
550	5.6-7.6
600	5.2-7.0

ORDER INFORMATION

Kinvaro T-75 set
Set: Lift-up flap fitting with damping, standard springs (pre-assembled), cover caps



Suitable for	Grey	White	
Wood connection	**F151**147**699**	**F151**147**700**	



Kinvaro T-75 set consisting of:

1 Fitting right without and left with damping (1x)
2 Cover caps right and left (1x)
Paper template (1x)
Assembly instructions (1x)

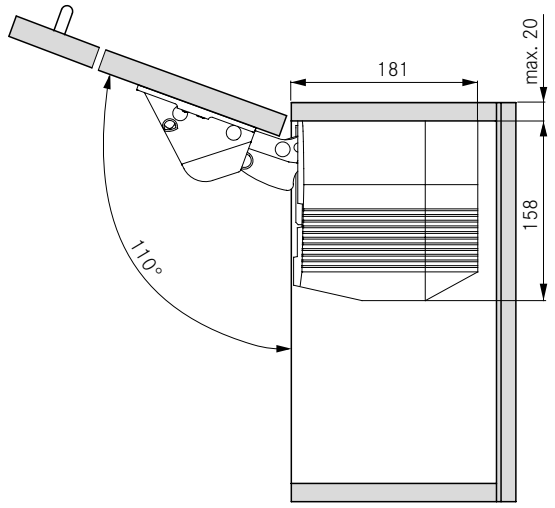
PAGE REFERENCES

Kinvaro T-75 adjustment options	70				
Assembly aids	88				

PLANNING INFORMATION

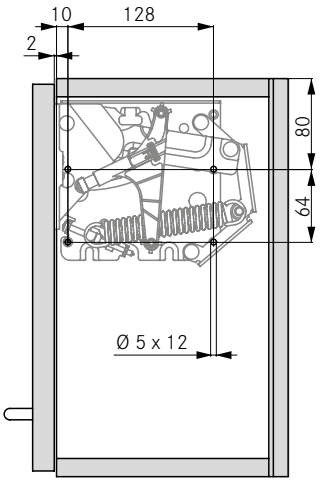
All dimensions in millimetres

Required space

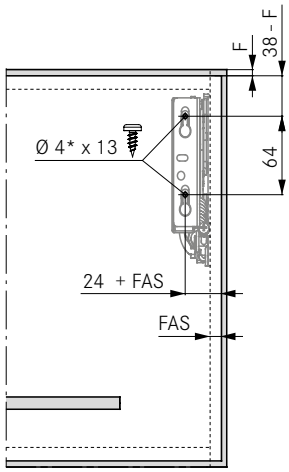


Side wall
drilling positions

Euro screw Ø 6.3 x 13



Front
installation for wooden and frame flaps (min. 55 mm width)



* Pre-drilling required Ø 2 mm

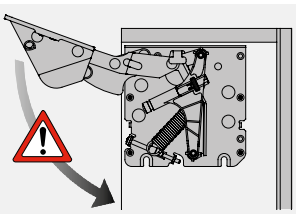
Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAS	Front overlay, side

KINVARO
T-76 lift-up flap fitting



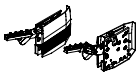
- Variable opening angle - holds flap securely at any angle between 45° and 110°
- Extremely comfortable opening thanks to spring-supported opening mechanism
- Adjustable spring force
- Integrated adjustable closing damper
- Flap with 3-dimensional adjustment – height, side, angle: direct adjustment ±1.5 mm
- No hinges fitted to the top panel
- Allows additional cabinet installation above
- Fast, tool-free clip fitting of the front
- Weight 5.2 to 11.0 kg
- Range of flaps:
  Width: up to 1,200 mm
  Height: 400-600 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

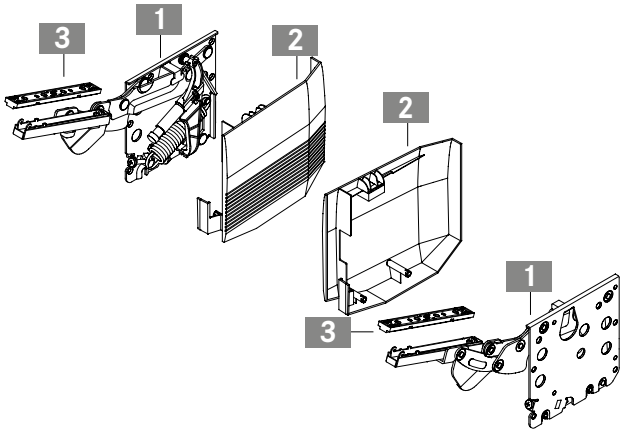
Flap height	Flap weight incl. handle (kg)
	Spring standard
400	7.0-11.0
450	6.7-9.6
500	5.8-8.5
550	5.6-7.6
600	5.2-7.0

ORDER INFORMATION

Kinvaro T-76 set
Set: Lift-up flap fitting with damping, standard springs (pre-assembled), cover caps



Suitable for	Grey	White	
Wood connection	**F151**147**706**	**F151**147**817**	



Kinvaro T-76 set consisting of:

1 Fitting right without and left with damping (1x)
2 Cover caps right and left (1x)
3 Mounting plates (2x)
Paper template (1x)
Assembly instructions (1x)

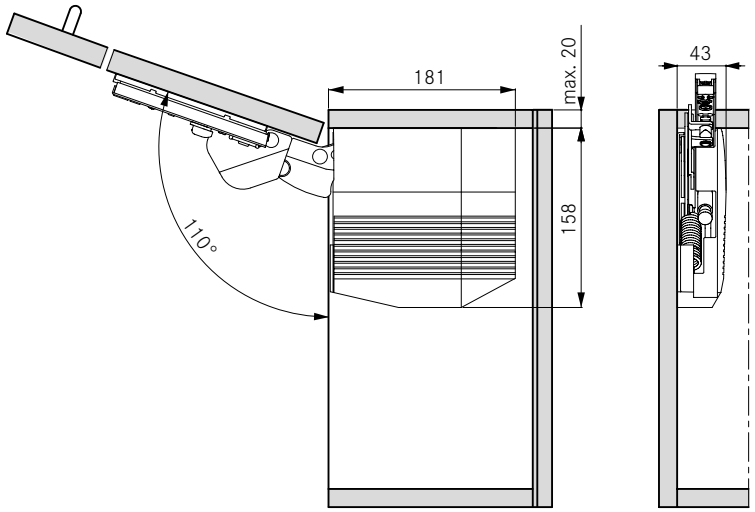
PAGE REFERENCES

Kinvaro T-76 adjustment options	72				
Assembly aids	88				

PLANNING INFORMATION

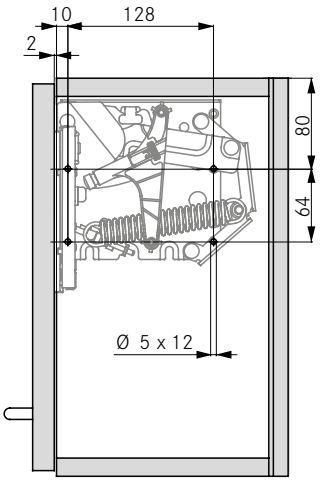
All dimensions in millimetres

Required space

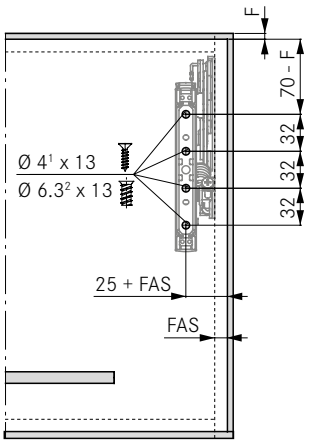


Side wall drilling positions

Euro screw Ø 6.3 x 13



Front installation for wooden and frame flaps (min. 55 mm width)



[1] Pre-drilling required Ø 2 mm
[2] Pre-drilling required Ø 5 mm

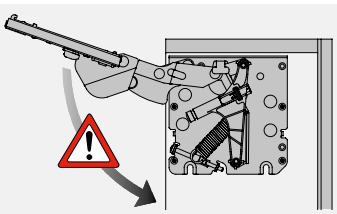
Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAS	Front overlay, side

KINVARO
T-57 lift-up flap fitting



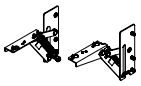
- Opening angle adjustable to 75° or 90°
- Easy to install
- Adjustable spring force
- Adjustable flap height ±1.0 mm
- No hinges fitted to the top panel
- Allows additional cabinet installation above
- Weight 1.0 to 6.2 kg
- Range of flaps:
  Width: up to 1,200 mm
  Height: 300-600 mm
- High-quality nickel-plated surface

AREA OF APPLICATION

Flap height	Flap weight incl. handle (kg)	
	Min.	Max.
300	1.0	6.2
350	1.2	4.9
400	1.4	3.8
450	1.5	3.6
500	1.7	2.9
550	1.9	2.7
600	2.1	2.5

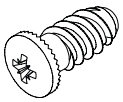
ORDER INFORMATION

Kinvaro T-57 Set
Set: Lift-up flap fitting, adjustable springs



	Suitable for	Art. no.
	Wood connection	**F151**145**224**

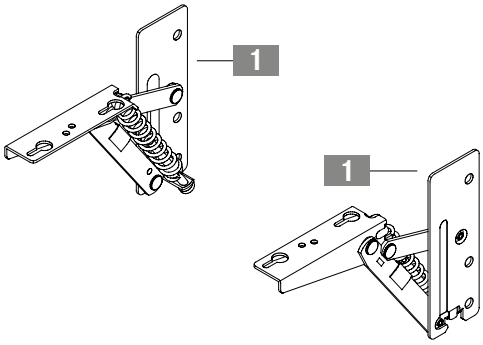
Euro collar screws
Piece



	Nominal diameter x screw length	Art. no.
	6.3 x 13.5	**F150**145**234**

Kinvaro T-57 set consisting of:

1 Fitting right and left (1x)
Paper template (1x)
Assembly instructions (1x)



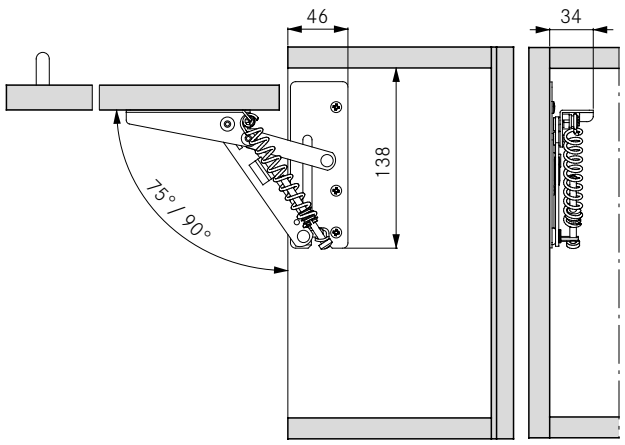
PAGE REFERENCES

Kinvaro T-57 adjustment options	74				
Assembly aids	88				

PLANNING INFORMATION

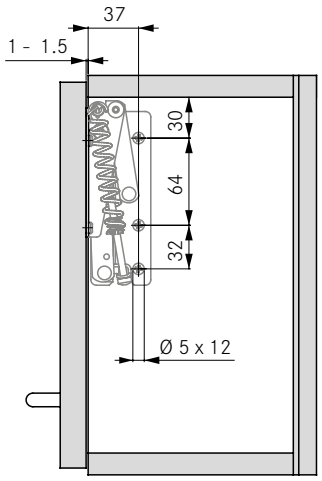
All dimensions in millimetres

Required space

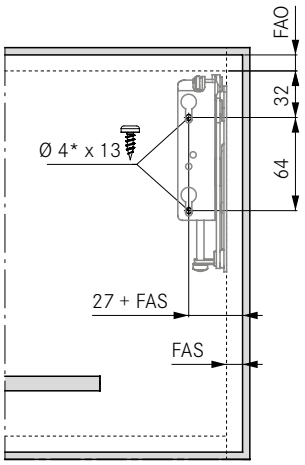


Side wall drilling position

Euro collar screw Ø 6.3 x 13.5



Front installation for wooden and frame flaps (min. 55 mm width)



* Pre-drilling required Ø 2 mm

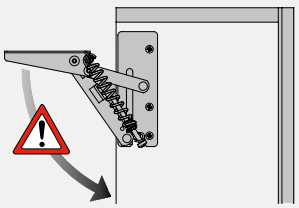
Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
PH	Stamping height

KINVARO
T-105 flap stay



- Variable opening angle holds flaps securely from 45˚ to 105˚
- Spring-supported opening function
- Convenient access, flap lifts clear of the work area
- Allows additional cabinet installation above
- Maintenance-free, no readjustment required
- High-quality zinc diecasting, nickel-plated
- Range of flaps:
  Width: up to 1,200 mm
  Height: 250–500 mm

Notice:
- Tiomos 120° hinges with spring, without damper, and Tiomos mounting plates for top panel must be ordered separately

AREA OF APPLICATION

Flap height	N/A	Flap weight incl. handle (kg)	
		Spring standard	Spring black
250	1	1.4-4.4	3.0-5.5
	2	3.4-8.9	6.0-11.1
300	1	1.6-4.3	2.8-5.2
	2	3.2-8.6	5.5-10.4
350	1	1.3-4.1	2.4-4.8
	2	2.6-8.1	4.8-9.5
400	1	1.3-3.4	2.2-4.0
	2	2.6-6.8	4.3-8.1
450	1	1.2-3.0	1.9-3.8
	2	2.4-6.1	3.8-7.4
500	1	1.1-2.9	1.7-3.5
	2	2.2-5.8	3.3-6.7

ORDER INFORMATION

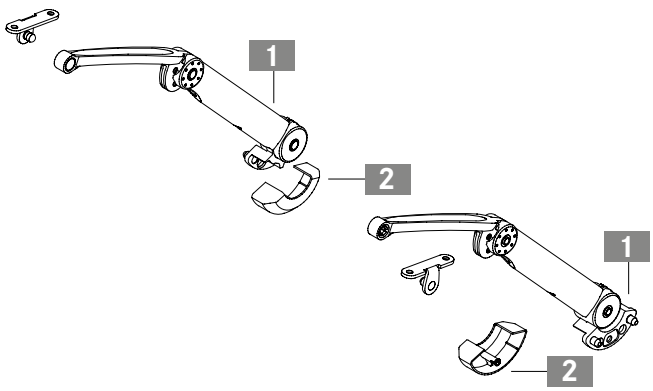
Kinvaro T-105 for wooden fronts
Set: Flap stay, springs (adjustable), cover cap (black)



Spring version	Left	Right	
Black	**F151**145**218**	**F151**145**219**	
Standard	**F151**145**220**	**F151**145**221**	

Kinvaro T-105 set consisting of:

1 Fitting right and left (1x)
2 Cover caps right or left in black (1x)
Paper template (1x)
Assembly instructions (1x)



Note:

Please order Tiomos 120° hinges with spring, without damping as well as Tiomos mounting plates for top panel separately.

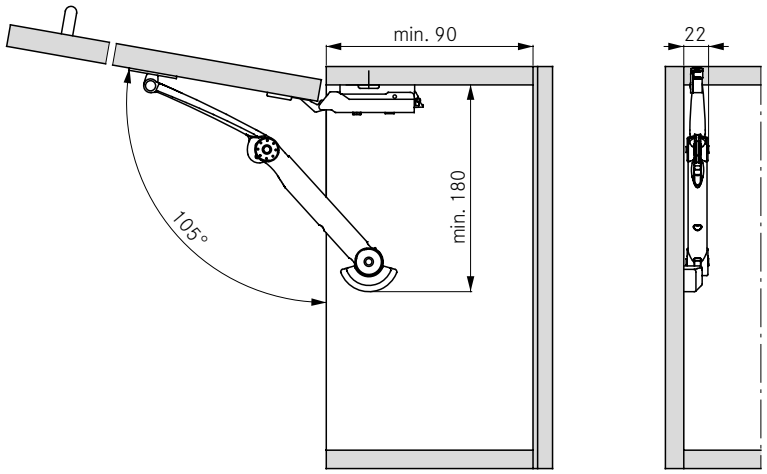
PAGE REFERENCES

Kinvaro T-105 adjustment options	76				
Assembly aids	88				

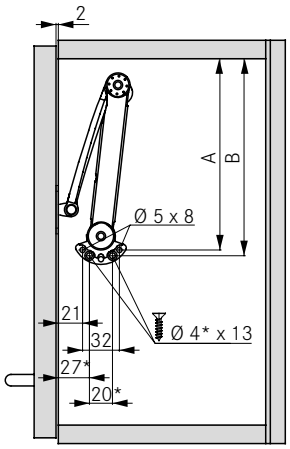
PLANNING INFORMATION

All dimensions in millimetres

Required space

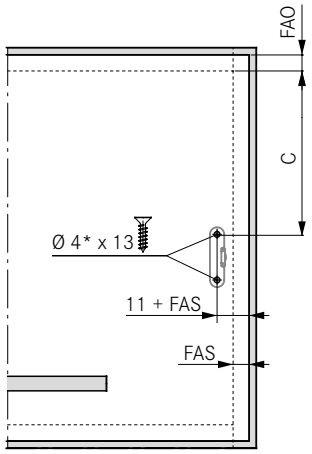


Side wall
drilling positions



* Pre-drilling required Ø 2 mm

Front installation for wooden and frame flaps (min. 45 mm width)



* Pre-drilling required Ø 2 mm

Opening angle	A	B	C
95°	169 + MH	174 + MH	118 + MH
≥ 105°	164 + MH	169 + MH	113 + MH

The installation dimensions apply to hinges with cranking 0 and the respective mounting plate height.
The opening angle can vary between approx. 95 and approx. 105° depending on the hinge type and inset application.

Minimum reveal and door protrusion depend on the hinge fitted.
You can find suitable hinges in the hinge systems product catalogue.

Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING

LEGEND

A / B	Side wall fastening dimension
C	Front fastening dimension
FAO	Front overlay top
FAS	Front overlay, side
MH	Mounting plate height

KINVARO
F-20 folding flap fitting



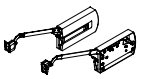
- Holds flap securely in any position
- Extremely smooth movement
- Adjustable spring force
- Integrated adjustable closing damper
- Flap with 3-dimensional adjustment – height, side, angle: direct adjustment ±1.5 mm
- Reveal with 3-dimensional adjustment – height, side, angle: Direct adjustment
- Opening limiter adjustable to 90°
- Wide range of applications for many different flap materials
- Fast, tool-free clip fitting of the front
- Pre-assembled Euro screws and positioning pins for easy mounting of the fitting on the side wall
- High stability
- Weight 3.8 to 19.2 kg
- Range of flaps:
  Width: 400-1,200 mm
  Height: 520-900 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

Cabinet height (KH)	Steering arm type	Flap weight incl. handle (kg)		
		Lift mechanism B	Lift mechanism C	Lift mechanism D
520-559	Type 2	4.6-13.8	–	–
560-599	Type 3	4.4-12.6	7.0-14.7	–
600-649	Type 4	4.1-12.1	6.8-15.8	–
650-699	Type 5	3.8-11.4	6.7-16.9	–
700-749	Type 6	–	6.5-16.4	10.0-18.0
750-799	Type 7	–	6.0-15.6	8.6-19.2
800-849	Type 7	–	–	7.8-18.0
850-900	Type 7	–	–	6.5-16.5

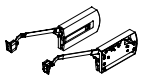
ORDER INFORMATION

Kinvaro F-20 folding flap fitting with white cover cap
Set: Folding flap fitting, screw-on bracket for wood, cover caps, link hinges



KH	B	C	D
520 - 559 mm	**F152**147**837**		
600 - 649 mm		**F152**147**842**	
700 - 749 mm		**F152**147**844**	
750 - 900 mm		**F152**147**787**	**F152**147**847**

Kinvaro F-20 folding flap fitting with grey cover cap
Set: Folding flap fitting, screw-on bracket for wood, cover caps, link hinges

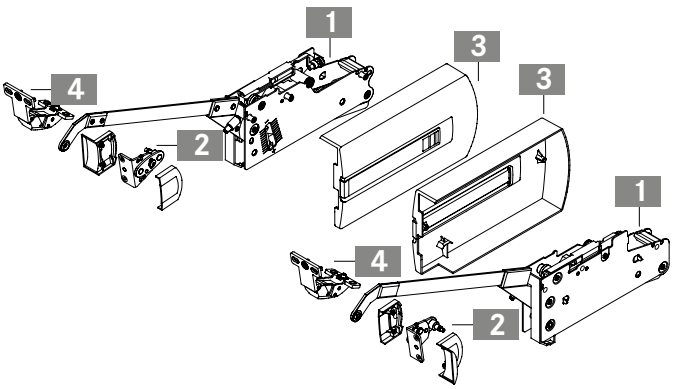


KH	B	C	D
520 - 559 mm	**F152**145**237**		
560 - 599 mm	**F152**145**238**	**F152**145**239**	
600 - 649 mm	**F152**145**240**	**F152**145**241**	
650 - 699 mm	**F152**145**242**	**F152**145**243**	
700 - 749 mm		**F152**145**244**	**F152**145**245**
750 - 900 mm		**F152**145**246**	**F152**145**247**

Kinvaro F-20 set consisting of:

1 Fitting right and left (1x)
2 Screw-on bracket for wood connection incl. cover caps (2x)
3 Cover caps right and left (1x)
4 Link hinges (2x)
Paper template (1x), assembly instructions (1x)

Note: Please order Tiomos 120° hinges with spring, without damping as well as Tiomos mounting plates for top panel separately.



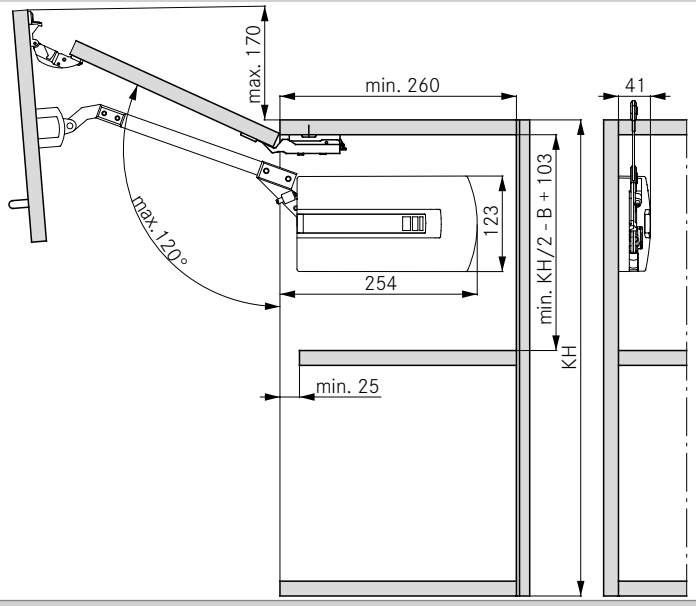
PAGE REFERENCES

Kinvaro F-20 adjustment options	78				
Assembly aids	88				

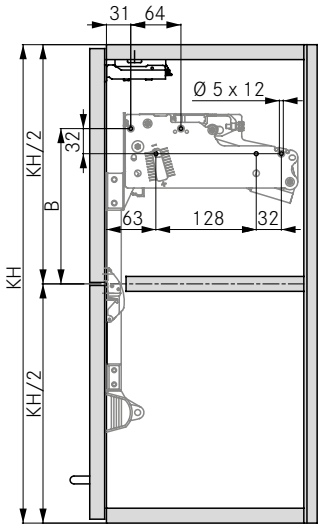
PLANNING INFORMATION

All dimensions in millimetres

Required space



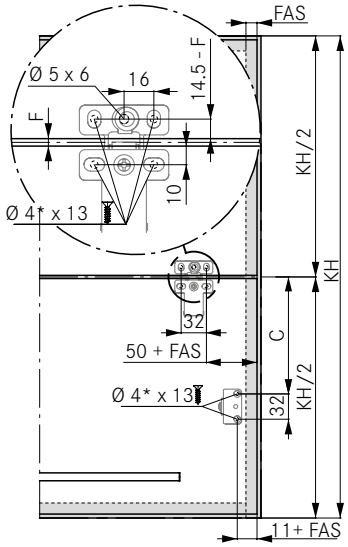
Side wall
drilling positions



Side wall
Drilling clearance

KH	Type	B
520 – 529	2	173
530 – 539	2	158
540 – 549	2	143
550 – 559	2	128
560 – 569	3	183
570 – 579	3	168
580 – 589	3	153
590 – 599	3	138
600 – 609	4	208
610 – 619	4	198
620 – 629	4	178
630 – 639	4	168
640 – 649	4	158
650 – 699	5	225
700 – 749	6	235
750 – 799	7	250

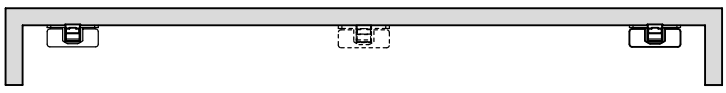
Front installation for wooden and frame flaps (min. 45 mm width)



* Pre-drilling required Ø 2 mm

Front
Drilling clearance

KH	Type	C
520 – 529	2	133
530 – 539	2	148
540 – 549	2	163
550 – 559	2	178
560 – 569	3	145
570 – 579	3	160
580 – 589	3	175
590 – 599	3	190
600 – 609	4	138
610 – 619	4	148
620 – 629	4	168
630 – 639	4	178
640 – 649	4	188
650 – 699	5	146
700 – 749	6	156
750 – 799	7	166



Number of hinges on top panel

From 900 mm cabinet width: 3 hinges. Hinges with spring require an opening angle of min. 120°

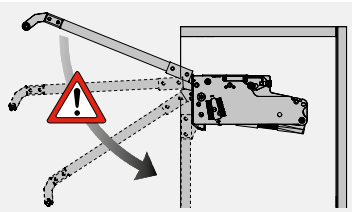
Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



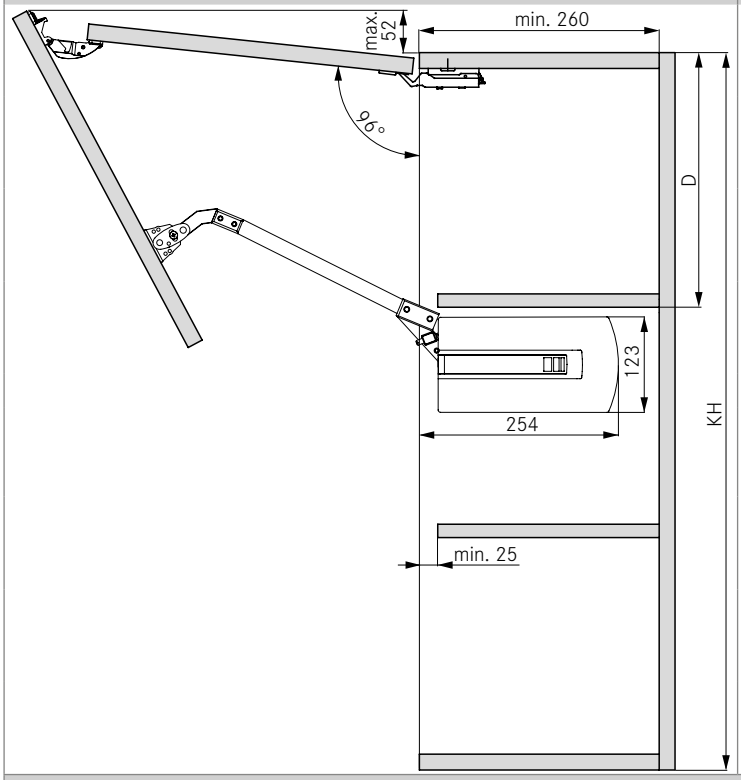
Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

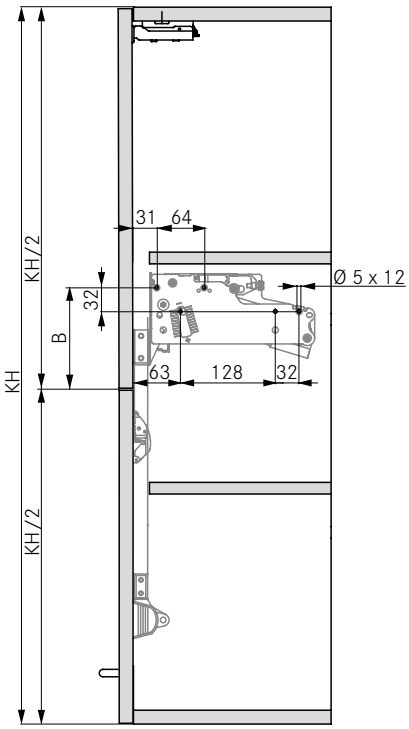
B	Drilling dimension - side wall
C	Drilling dimension – front
F	Reveal
FAS	Front overlay, side
KH	Cabinet height

KINVARO
F-20 folding flap fitting

Required space



Side wall
drilling positions



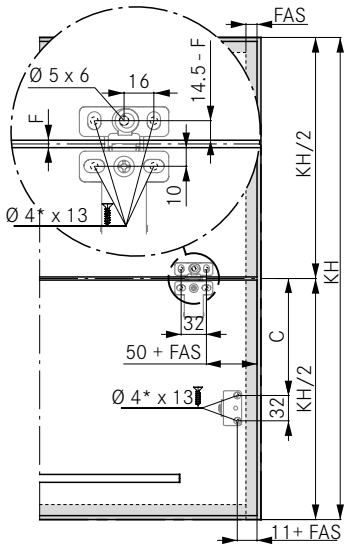
Side wall
Drilling clearance

KH	Type	B
800 – 849	7	103
850 – 900	7	110

Shelf distance

KH	D
800 – 849	≤293
850 – 900	≤312

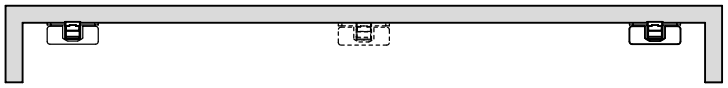
Front installation for wooden and frame flaps (min. 45 mm width)



* Pre-drilling required Ø 2 mm

Front
Drilling clearance

KH	Type	C
800 – 900	7	304



Number of hinges on top panel

From 900 mm cabinet width: 3 hinges. Hinges with spring require an opening angle of min. 120°

Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

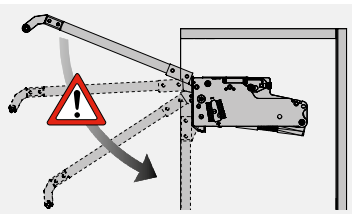
[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

PAGE REFERENCES

Kinvaro F-20 adjustment options	78				
Assembly aids	88				

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

B	Drilling dimension - side wall
C	Drilling dimension – front
F	Reveal
FAS	Front overlay, side
KH	Cabinet height

KINVARO
L-80 parallel lift flap fitting



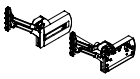
- Holds flap securely in any position
- Extremely smooth movement
- Adjustable spring force
- Integrated adjustable closing damper
- Flap with 3-dimensional adjustment – height, side, angle: direct adjustment ±1.5 mm
- Allows the use of cornices, pelmets and pelmet lights
- Wide range of applications for many different flap materials
- Fast, tool-free clip fitting of the front
- Pre-assembled Euro screws and positioning pins for easy mounting of the fitting on the side wall
- High stability
- Weight 1.9 to 14.6 kg
- Range of flaps:
  Width: 450-1,200 mm
  Height: 350-600 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

Cabinet height (KH)	Steering arm type	Flap weight incl. handle (kg)		
		Lift mechanism A	Lift mechanism B	Lift mechanism C
350-369	Type 1	2.5-6.5	6.0-9.5	–
390-409	Type 3	2.1-5.5	5.0-8.5	8.0-10.1
410-429	Type 4	1.9-5.0	4.5-8.0	7.5-14.6
430-600	Type 5	2.0-4.5	4.0-7.5	7.0-14.6

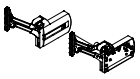
ORDER INFORMATION

Kinvaro L-80 parallel lift flap fitting with white cover cap
Set: Parallel lift flap fitting, cover caps, cross bar, sliding sleeves, mounting plates



KH	B	C	
430 - 600 mm	**F152**147**715**	**F152**147**788**	

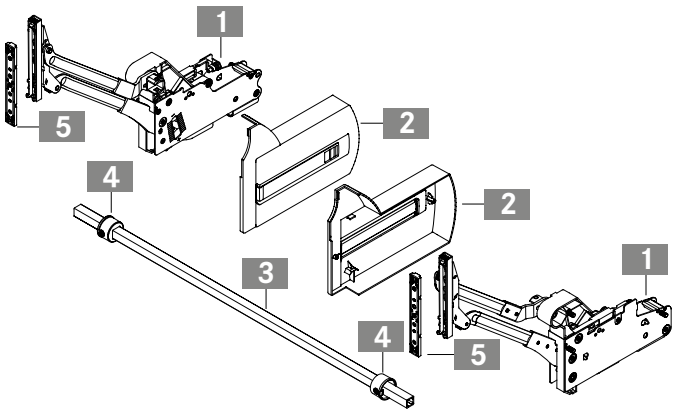
Kinvaro L-80 parallel lift flap fitting with grey cover cap
Set: Parallel lift flap fitting, cover caps, cross bar, sliding sleeves, mounting plates



KH	A	B	C
350 - 369 mm	**F152**145**248**		
390 - 409 mm	**F152**147**441**	**F152**145**251**	**F152**145**252**
410 - 429 mm	**F152**147**442**		
430 - 600 mm	**F152**147**443**	**F152**145**253**	**F152**145**254**

Kinvaro L-80 set consisting of:

1 Fitting right and left (1x)
2 Cover caps right and left (1x)
3 Cross bar 1,090 mm for cutting to length (1x)
4 Sliding sleeves (2x)
5 Mounting plates(2x)
Paper template (1x)
Assembly instructions (1x)



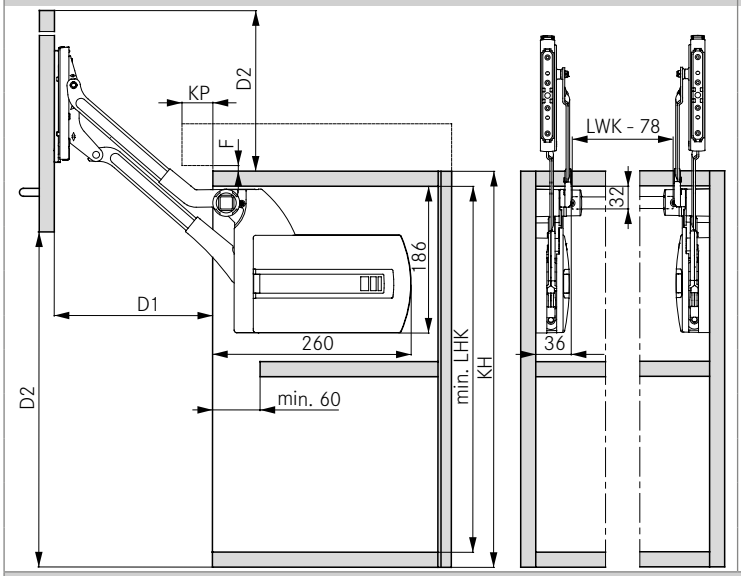
PAGE REFERENCES

Kinvaro L-80 adjustment options	80				
Assembly aids	88				

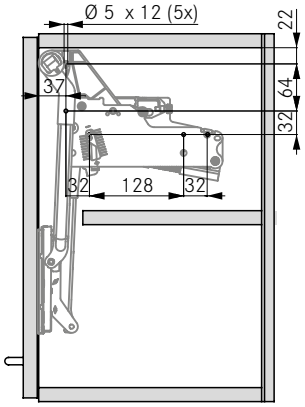
PLANNING INFORMATION

All dimensions in millimetres

Required space



Side wall drilling positions



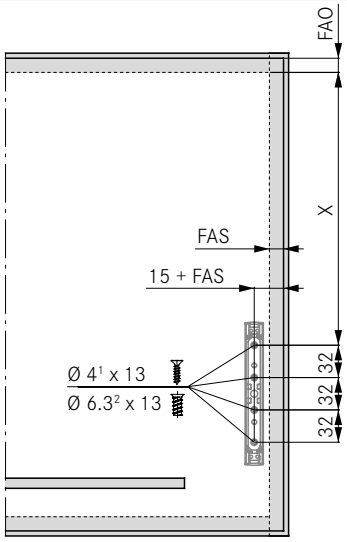
Front Opening position

Type	LHK	D1	D2
1	312	161	304
2	332	176	337
3	352	191	370
4	372	206	403
5	392	221	436

Cornice projection

F	KP max.
2	22
3	35
4	39

Front installation for wooden and frame flaps (min. 45 mm width)

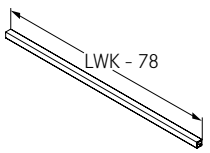


[1] Pre-drilling required Ø 2 mm
[2] Pre-drilling required Ø 5 mm

Front Drilling clearance

KH	Type	X
350 – 369	1	190
370 – 389	2	210
390 – 409	3	230
410 – 429	4	250
430 – 600	5	270

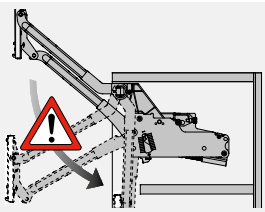
Cross bar cutting dimensions



Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap
[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³
[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

D	Distance
F	Reveal
FAO	Front overlay top
FAS	Front overlay, side
KH	Cabinet height
KP	Cornice
LHK	Inside cabinet height
LWK	Inside cabinet width

KINVARO

S-35 up-and-over flap fitting



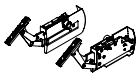
- Securely holds flap in any position from 45° opening angle
- Extremely smooth movement
- Adjustable spring force
- Integrated adjustable closing damper
- Flap with 3-dimensional adjustment – height, side, angle: direct adjustment ±1.5 mm
- Allows the use of cornices, pelmets and pelmet lights
- Wide range of applications for many different flap materials
- Fast, tool-free clip fitting of the front
- Pre-assembled Euro screws and positioning pins for easy mounting of the fitting on the side wall
- High stability
- Weight 1.5 to 17.5 kg
- Range of flaps:
  Width: 450-1,200 mm
  Height: 420-750 mm
- Cover caps in white and grey, similar to RAL 7045

AREA OF APPLICATION

Cabinet height (KH)	Flap weight incl. handle (kg)				
	Lift mechanism A	Lift mechanism B	Lift mechanism C	Lift mechanism D	Lift mechanism E
420-449	1.5-7.5	5.0-11.0	–	–	–
450-479	1.8-7.5	5.0-12.0	–	–	–
480-509	1.8-6.5	5.0-12.5	–	–	–
510-539	2.0-6.0	5.0-13.0	–	–	–
540-569	2.0-6.0	5.0-12.5	6.0-14.0	–	–
570-599	2.0-6.0	5.0-11.0	5.5-12.0	11.5-14.5	–
600-629	2.0-5.5	4.5-10.0	5.5-11.5	10.5-15.5	–
630-659	2.0-5.5	–	4.5-11.0	8.5-16.0	–
660-689	2.0-5.0	–	4.0-10.0	7.5-15.0	12.0-16.5
690-719	2.0-5.0	–	4.0-8.5	6.5-13.5	12.0-17.5
720-750	–	–	4.0-8.0	6.5-12.5	10.0-17.0

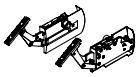
ORDER INFORMATION

Kinvaro S-35 up-and-over flap fitting with white cover caps
Set: Up-and-over flap fitting, cover caps, cross bar, sliding sleeves, mounting plates



KH	E		
420 - 750 mm	**F152**147**822**		

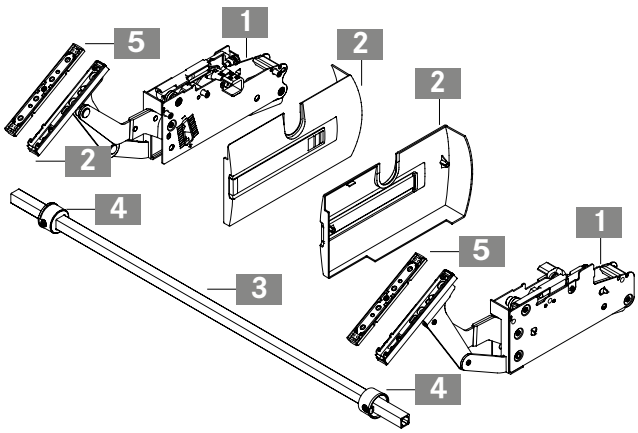
Kinvaro S-35 up-and-over flap fitting with grey cover caps
Set: Up-and-over flap fitting, cover caps, cross bar, sliding sleeves, mounting plates



KH	A	B	C
420 - 750 mm	**F152000255**	**F152000256**	**F152000257**
KH	D	E	
420 - 750 mm	**F152000258**	**F152000259**	

Kinvaro S-35 set consisting of:

1 Fitting right and left (1x)
2 Cover caps right and left (1x)
3 Cross bar 1,090 mm for cutting to length (1x)
4 Sliding sleeves (2x)
5 Mounting plates(2x)
Paper template (1x), assembly instructions (1x)



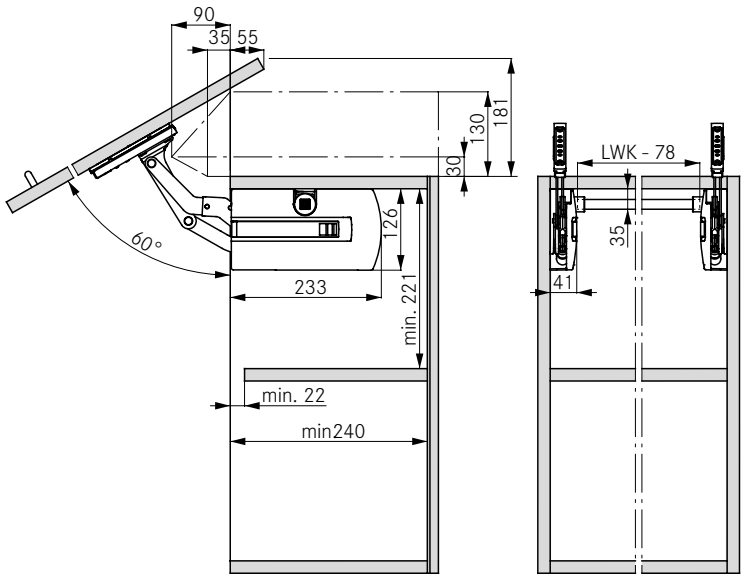
PAGE REFERENCES

Kinvaro S-35 adjustment options	82
Assembly aids	88

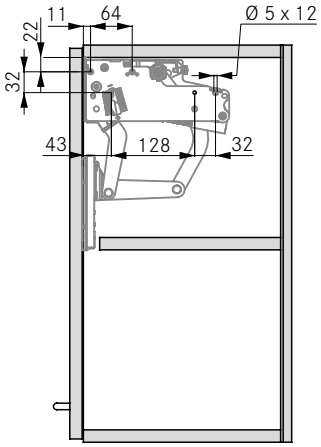
PLANNING INFORMATION

All dimensions in millimetres

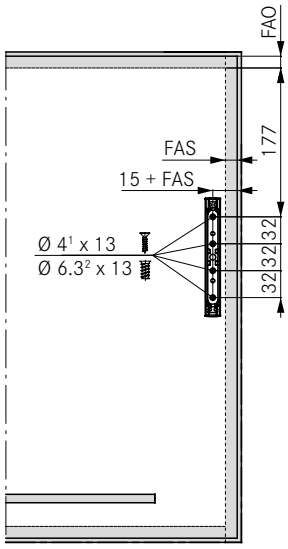
Required space



Side wall drilling positions



Front installation for wooden and frame flaps (min. 45 mm width)

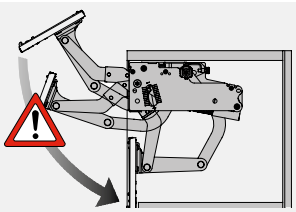


[1] Pre-drilling required Ø 2 mm
[2] Pre-drilling required Ø 5 mm

Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap
[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³
[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING



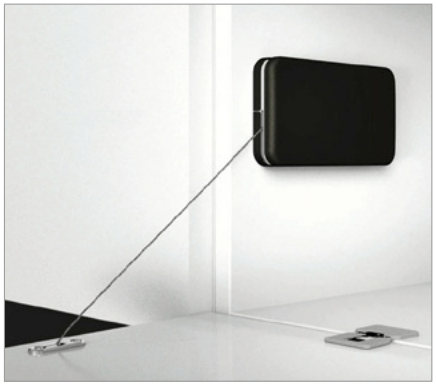
Caution!
Caution risk of injury!
Fitting is under spring tension!

LEGEND

FAO	Front overlay top
FAS	Front overlay, side
KH	Cabinet height
LWK	Inside cabinet width

KINVARO

D-M flap stay with pull cable



- Damped opening and gentle closing
- Opening angle adjustable via length of pull cable
- Spring force adjustment
- Can be used with shallow cabinets from 110 mm depth
- Flap height 200–480 mm
- Can be used on left/right
- Easy to install horizontally or vertically
- Colours White, Night and Smoke
- Designed for combination with Tiomos flap hinge

Notice:

- Tiomos flap hinges must be ordered separately

AREA OF APPLICATION

Front height (FH)	V1								V2							
	Flap weight incl. handle (kg)								Flap weight incl. handle (kg)							
	Lift mechanism 60N		Lift mechanism 100N		Lift mechanism 160N		Lift mechanism 200N		Lift mechanism 60N		Lift mechanism 100N		Lift mechanism 160N		Lift mechanism 200N	
	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x
200-230	4.0-4.8	-	4.2-6.2	-	5.8-8.0	-	7.2-10.4	-	4.1-5.9	-	5.3-7.3	-	-	-	-	-
230-270	3.0-4.4	6.0-8.4	3.6-5.2	6.8-9.6	5.2-7.0	-	6.8-8.6	-	3.3-4.8	6.8-9.6	4.2-6.0	9.6-12.8	-	-	-	-
270-330	2.9-3.8	5.6-7.8	3.0-4.6	6.4-8.8	4.6-6.0	8.6-11.8	6.4-7.8	-	3.2-4.5	6.3-8.1	3.8-5.1	7.9-11.1	6.1-8.0	12.9-15.5	-	-
330-380	2.7-3.7	5.0-7.0	3.2-4.3	6.5-8.5	4.3-5.7	8.7-11.1	5.5-7.1	11.9-13.5	2.6-3.4	5.0-6.5	3.3-4.5	7.3-8.5	5.3-6.5	10.7-12.9	6.7-7.3	13.3-14.9
380-430	2.9-3.6	4.5-6.1	3.1-3.9	5.7-7.3	4.5-6.1	8.5-10.1	5.4-6.9	10.9-12.5	2.5-3.4	5.0-6.2	3.2-4.2	6.2-8.2	4.8-5.6	9.8-11.4	5.9-6.6	11.8-13.0
430-460	2.7-3.1	4.3-6.1	2.7-3.9	5.9-8.3	4.1-4.9	8.3-9.5	5.3-5.7	10.1-11.5	2.3-3.0	4.6-6.2	3.0-3.8	6.2-7.8	4.6-5.4	9.0-10.4	5.6-6.0	11.4-12.2
460-480	2.5-2.9	4.1-5.7	2.8-3.8	5.3-7.7	3.8-4.8	7.2-9.6	5.4-5.6	2.0-5.5	2.4-3.2	4.6-6.0	2.8-4.0	5.6-7.8	4.5-5.4	8.8-10.4	5.4-6.0	10.8-11.6

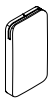
ORDER INFORMATION

Kinvaro D-M flap holder with pull cable
Set: Incl. front holder and fixing screws



	Lift mechanism	Art. no.
	60 N	**F053**139**661**
	100 N	**F053**139**662**
	160 N	**F053**139**686**
	200 N	**F053**139**687**

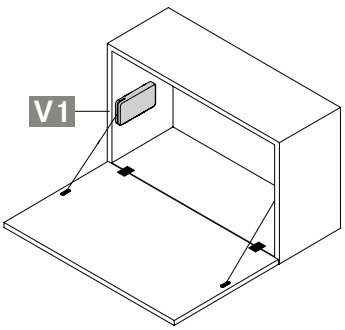
Kinvaro D-M cover cap
Piece: Left or right

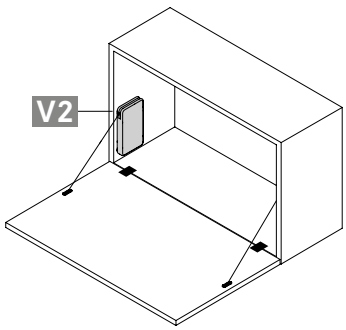


	Colour	Art. no.
	Night	**F053**139**669**
	Smoke	**F053**139**670**
	White	**F053**139**668**

Note:

Please order Tiomos flap hinges separately.





PAGE REFERENCES

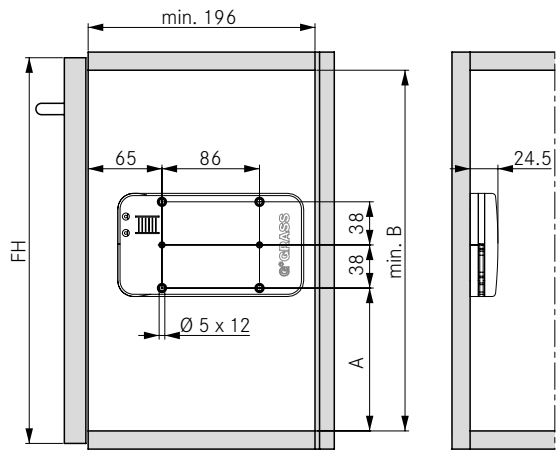
Kinvaro D-M adjustment options	84				
Assembly aids	88				

PLANNING INFORMATION

All dimensions in millimetres

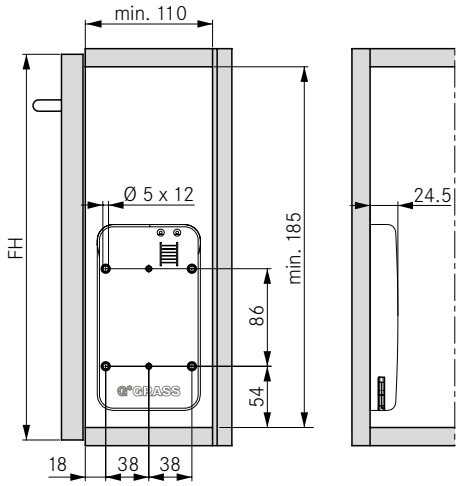
Drilling position and space required

V1

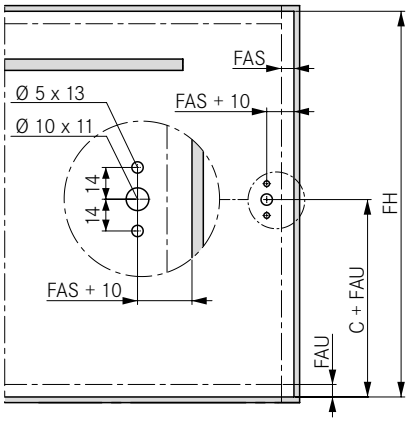


FH	A	B
200 - 330	102	194
330 - 430	126	218
430 - 480	136	228

V2



Front mounting for wooden flaps



FH	C (V1)	C (V2)
200 - 330	137	161
330 - 430	161	161
430 - 480	171	161

Minimum reveal and door protrusion depend on the hinge fitted.
You can find suitable hinges in the hinge systems product catalogue.

Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

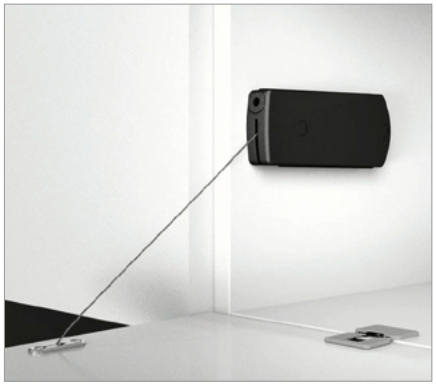
WARNING

LEGEND

FAS	Front overlay, side
FAU	Front overlay bottom
FH	Front height

KINVARO

D-S flap stay with pull cable



- Damped opening
- Opening angle adjustable via length of pull cable
- Can be used with shallow cabinets from 82 mm depth
- Flap height 200–480 mm
- Can be used on left/right
- Easy to install horizontally or vertically
- Colours White and Night
- Designed for combination with Tiomos flap hinge

Notice:

- Tiomos flap hinges must be ordered separately

AREA OF APPLICATION

Front height (FH)	V1				V2			
	Flap weight incl. handle (kg)				Flap weight incl. handle (kg)			
	Lift mechanism 40N		Lift mechanism 60N		Lift mechanism 40N		Lift mechanism 60N	
	1 x	2 x	1 x	2 x	1 x	2 x	1 x	2 x
200 – 270	1.7 – 3.0	3.9 – 4.5	3.1 – 4.0	7.5 – 8.0	2.5 – 3.8	4.3 – 5.6	3.9 – 4.9	–
270 – 330	1.7 – 3.0	3.3 – 4.5	3.1 – 4.0	6.1 – 7.4	2.3 – 3.1	4.2 – 5.0	3.2 – 4.1	7.0 – 7.5
330 – 380	1.7 – 1.9	3.2 – 3.5	2.9 – 3.5	5.1 – 6.8	1.8 – 2.6	3.4 – 3.9	3.0 – 3.8	5.6 – 6.5
380 – 430	1.5 – 1.8	2.7 – 3.3	2.5 – 3.3	4.8 – 6.6	1.7 – 2.3	2.9 – 4.2	2.8 – 3.5	4.7 – 6.2
430 – 460	1.2 – 1.7	2.5 – 3.1	2.3 – 3.3	4.6 – 6.0	1.5 – 2.0	3.1 – 4.0	2.5 – 3.2	4.4 – 6.1
460 – 480	–	–	2.2 – 2.8	4.4 – 5.3	–	2.8 – 3.8	2.3 – 2.6	4.1 – 5.8

ORDER INFORMATION

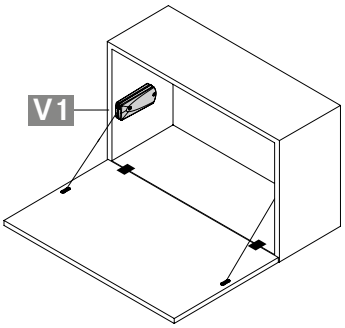
Kinvaro D-S flap holder with pull cable
Piece: Incl. front holder and fixing screws

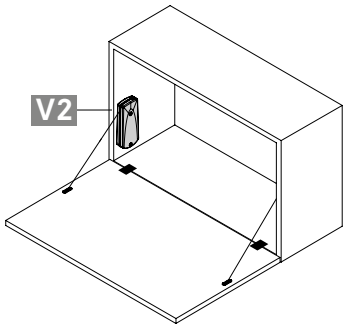


Lift mechanism	Night	White	
40 N	**F053**139**665**	**F053**139**664**	
60 N	**F053**139**667**	**F053**139**666**	

Note:

Please order Tiomos flap hinges separately.





PAGE REFERENCES

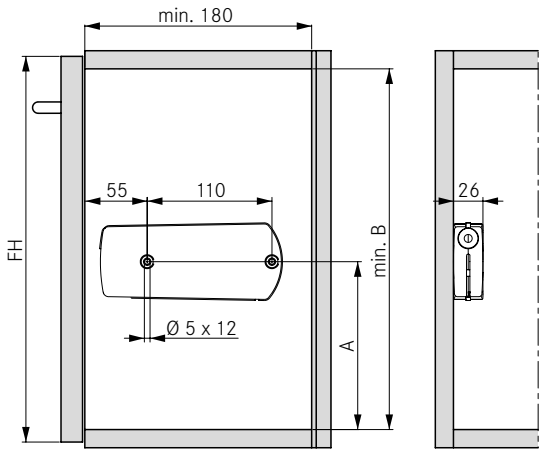
Kinvaro D-S adjustment options	86
Assembly aids	88

PLANNING INFORMATION

All dimensions in millimetres

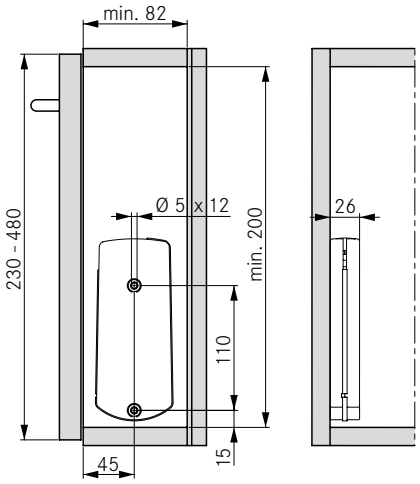
Drilling position and space required

V1

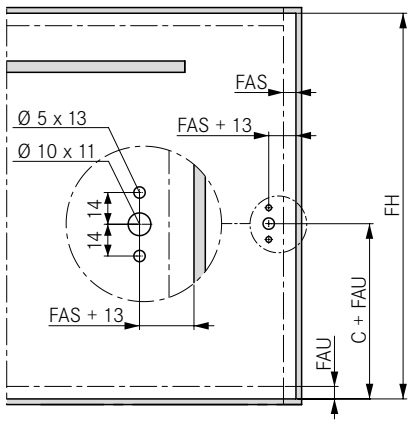


FH	A	B
200 - 270	135	173
270 - 480	148	186

V2



Front mounting for wooden flaps



FH	C (V1)	C (V2)
200 - 270	123	-
270 - 480	144	-
230 - 480	-	123

Minimum reveal and door protrusion depend on the hinge fitted.
You can find suitable hinges in the hinge systems product catalogue.

Calculation of flap weight

Flap width x flap height x flap thickness x density [1] + weight of handle [2] = weight of flap

[1] Densities: MDF board 0.85 kg/dm³, chipboard 0.65 kg/dm³, spruce/pine 0.45 kg/dm³

[2] For bar handles, allow 0.1 kg per 100 mm of the handle length. We recommend a trial fitting

WARNING

LEGEND

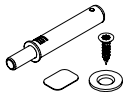
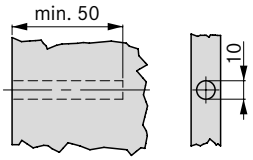
FAS	Front overlay, side
FAU	Front overlay bottom
FH	Front height

KINVARO
Tipmatic Pin

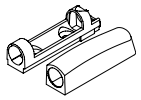
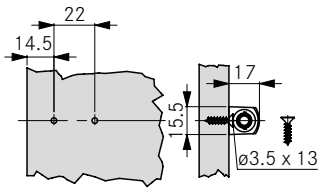


- The doors open with a comfortable opening angle by lightly tapping the front
- Large magnet catch area – reliable door closing
- Front gap compensation from 2.5 to 5.5 mm through integrated, self-locking and tool-free depth adjustment.
- Installation in the cabinet front edge or with adapter plate

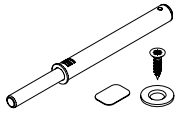
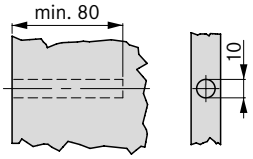
TIPMATIC PIN, SHORT

Description			Colour	Art. no.
• Drill edge cover 1 mm • Drill hole on front edge • Includes adhesive plate, screw-on plate and screw			Black	**F069**149**391**
			Light grey	**F069**149**392**
			White	**F069**149**390**

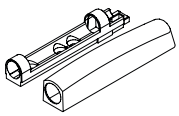
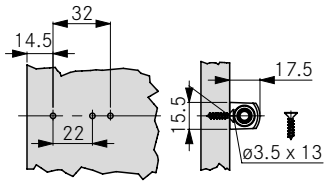
LINEAR ADAPTER PLATE, SHORT

Description			Colour	Art. no.
• Design solution - also in conjunction with inset doors • Fixing with chipboard screws (dia. 3.5 x 13 mm)			Black	**F069**149**397**
			Light grey	**F069**149**398**
			White	**F069**149**396**

TIPMATIC PIN, LONG

Description			Colour	Art. no.
• For heavy and wide doors • Drill edge cover 1 mm • Drill hole on front edge • Includes adhesive plate, screw-on plate and screw			Black	**F069**149**388**
			Light grey	**F069**149**389**
			White	**F069**149**387**

LINEAR ADAPTER PLATE, LONG

Description			Colour	Art. no.
• Design solution - also in conjunction with inset doors • Fixing with chipboard screws (dia. 3.5 x 13 mm)			Black	**F069**149**394**
			Light grey	**F069**149**395**
			White	**F069**149**393**

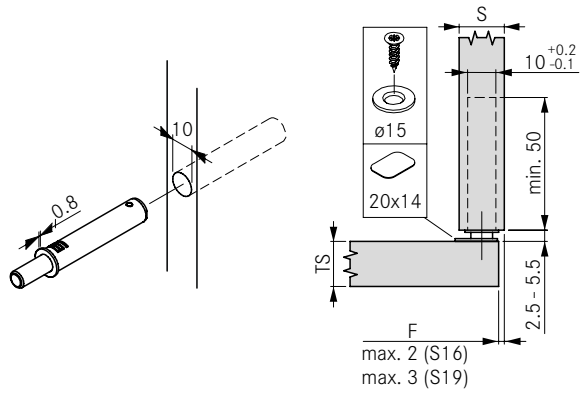
PAGE REFERENCES

Kinvaro flap system	11				

PLANNING INFORMATION

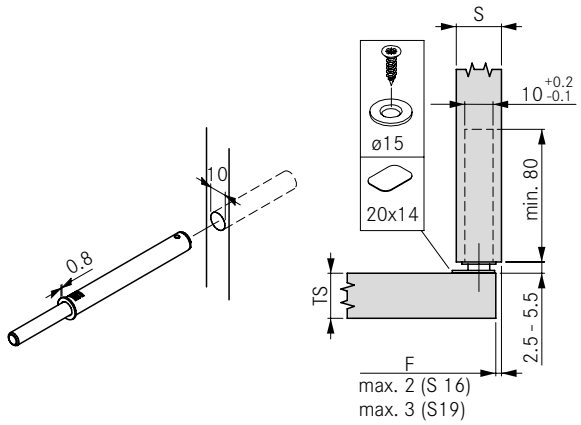
All dimensions in millimetres

Tipmatic Pin (short)



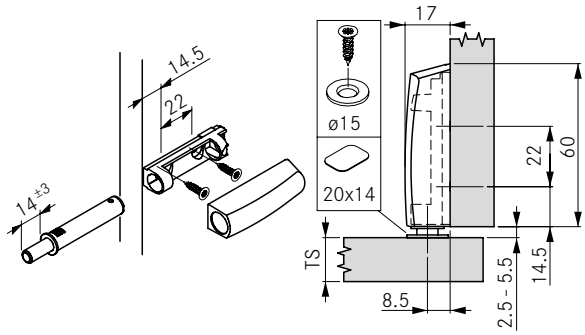
Do not use a door buffer. Self-adhesive or screw-mounted counter plate.

Tipmatic Pin (long)



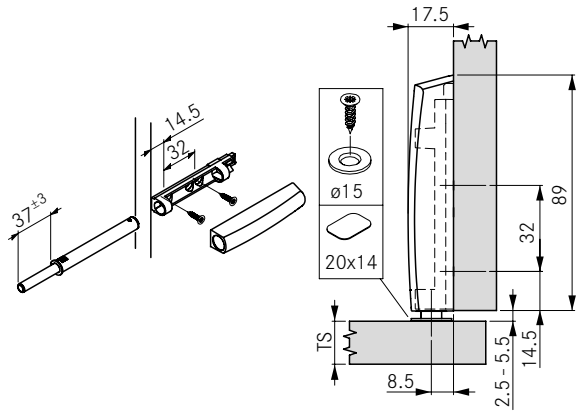
Do not use a door buffer. Self-adhesive or screw-mounted counter plate.

Linear adapter plate (short) overlay



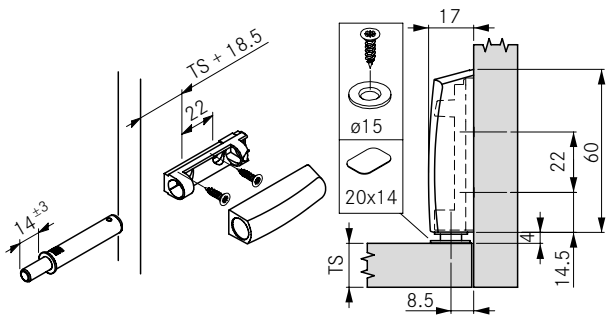
Do not use a door buffer. Self-adhesive or screw-mounted counter plate.

Linear adapter plate (long) overlay



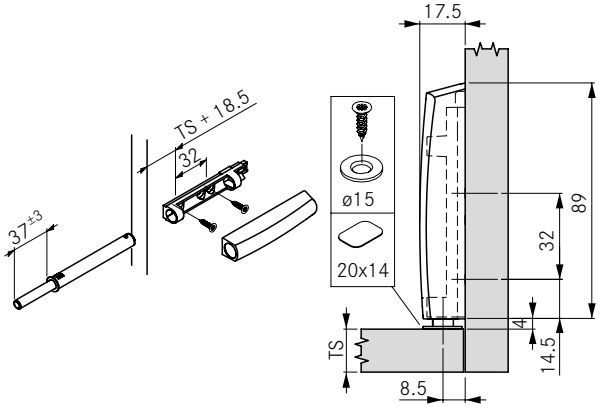
Do not use a door buffer. Self-adhesive or screw-mounted counter plate.

Linear adapter plate (short) inset



Do not use a door buffer. Self-adhesive or screw-mounted counter plate.

Linear adapter plate (long) inset

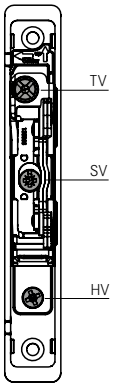


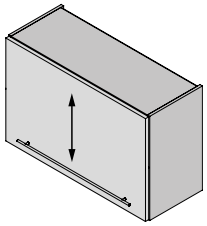
Do not use a door buffer. Self-adhesive or screw-mounted counter plate.

LEGEND

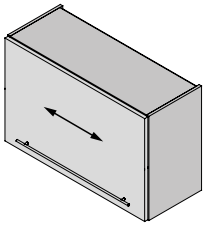
F	**Reveal**
S	**Side wall thickness**
TS	**Door thickness**

KINVARO
T-Slim adjustment facilities

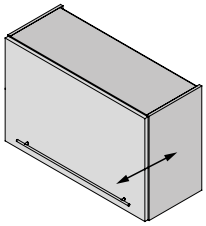




Height adjustment (HV)
+/- 2,5 mm

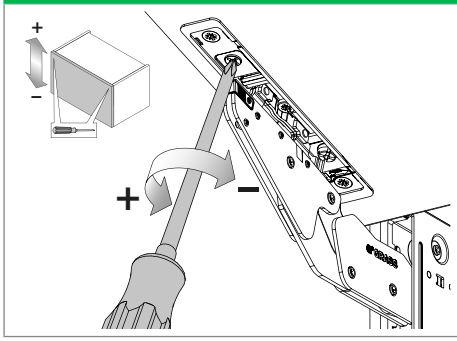
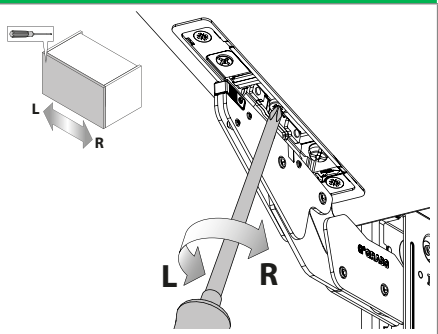
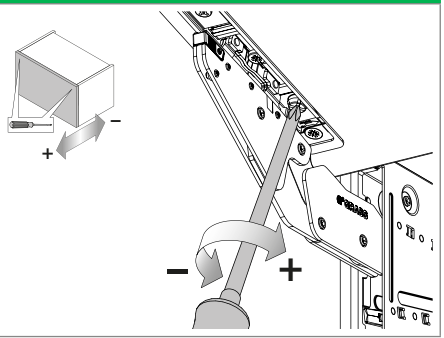


Side adjustment (SV)
+/- 2 mm

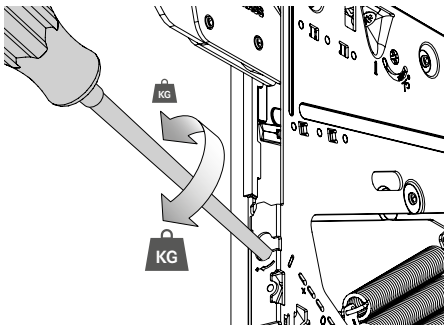
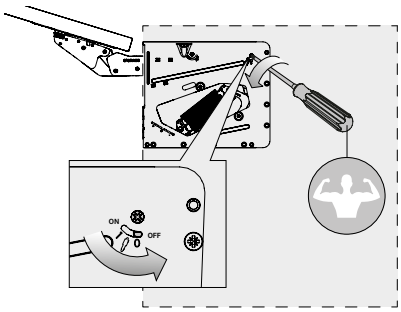


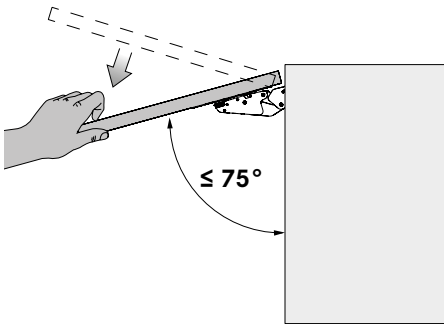
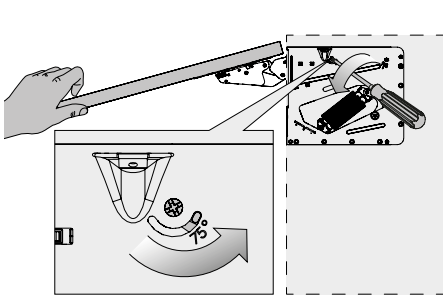
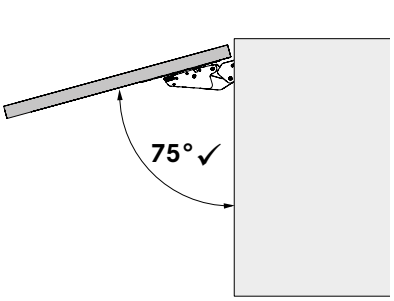
Depth adjustment (TV)
+ 3 /- 1 mm

All adjustments can be carried out independently of each other.

Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
		

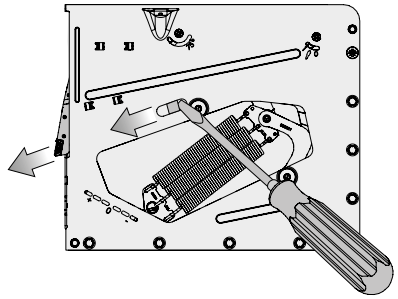
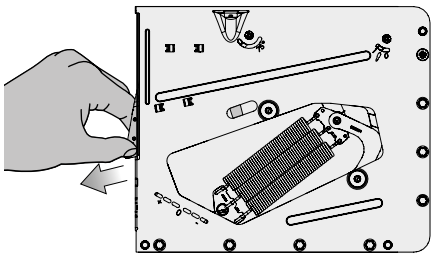
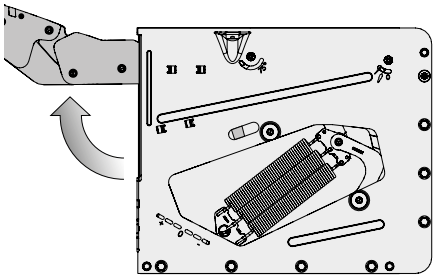
ADJUSTMENTS

Adjusting the spring force	Deactivating the closing damper	
		

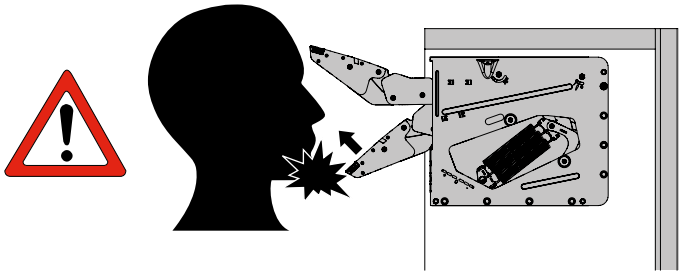
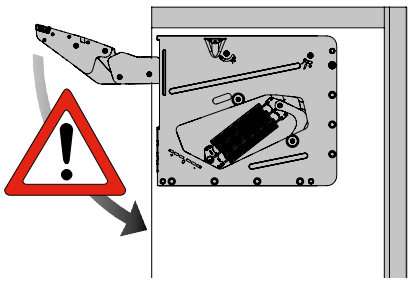
Activating the opening angle limiter		
		

PAGE REFERENCES

Kinvaro flap system	11				
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Emergency opening when the fitting is closed		
		

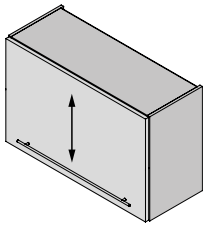
WARNING

Note	
	

LEGEND

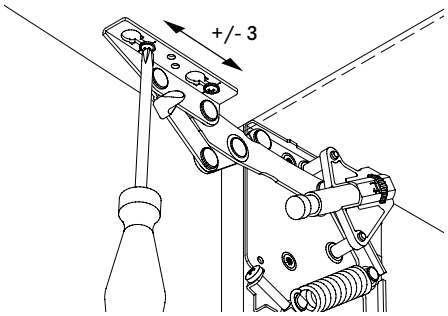
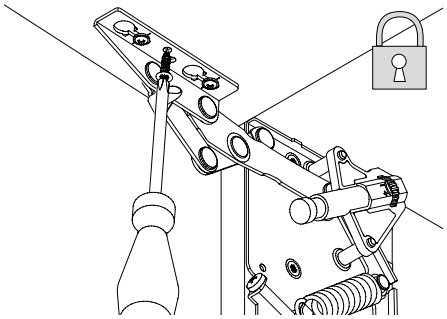
HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

KINVARO
T-65 adjustment facilities

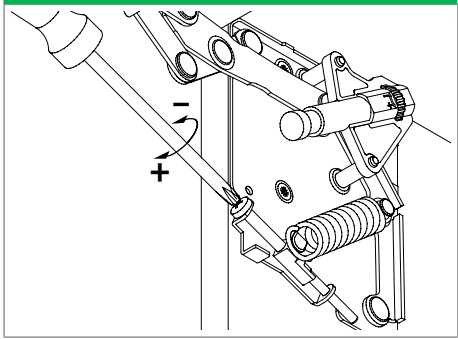
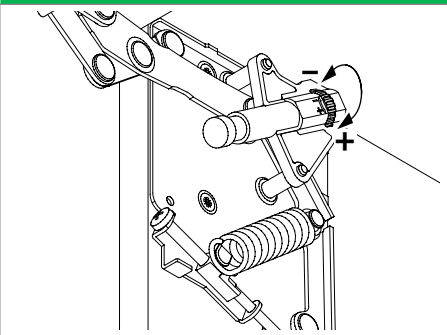


Height adjustment (HV)
+/- 3 mm

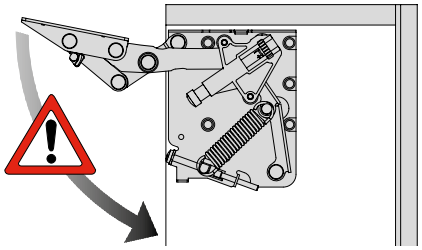
All adjustments can be carried out independently of each other.

Height adjustment (HV)	Locking	
		

ADJUSTMENTS

Adjusting the spring force	Adjusting the closing damper	
		

WARNING

		Note
		

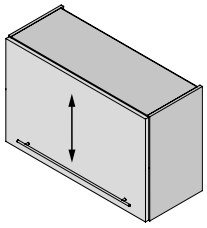
PAGE REFERENCES

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LEGEND

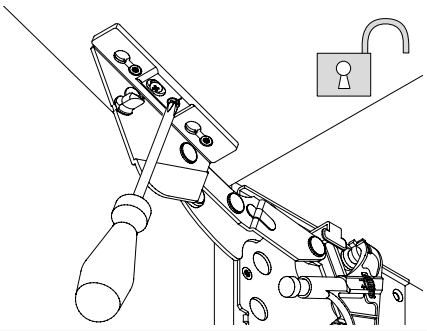
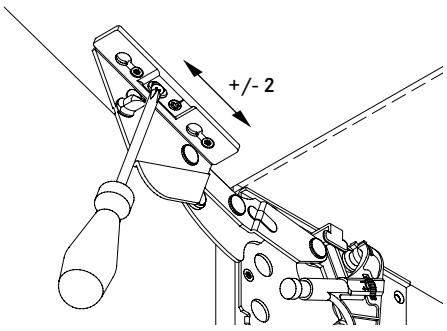
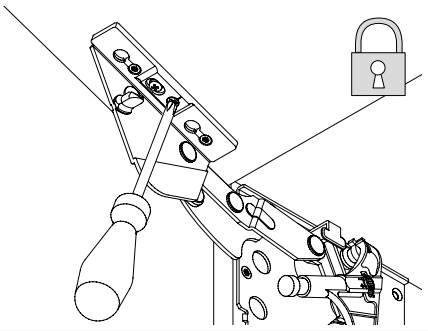
HV	Height adjustment

KINVARO
T-70 adjustment facilities

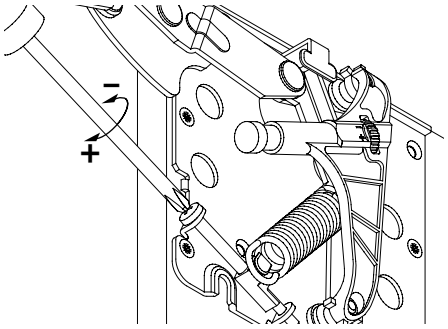
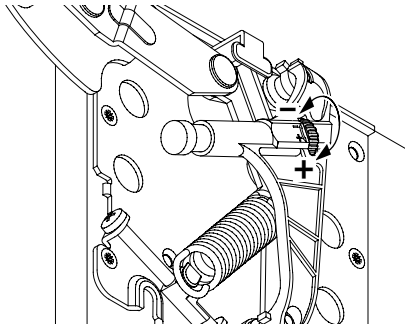


Height adjustment (HV)
+/-2 mm

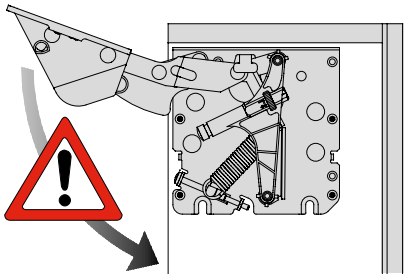
All adjustments can be carried out independently of each other.

Unlocking	Height adjustment (HV)	Locking
		

ADJUSTMENTS

Adjusting the spring force	Adjusting the closing damper	
		

WARNING

		Note
		

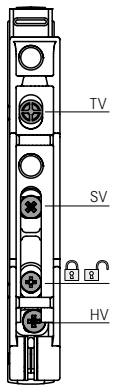
PAGE REFERENCES

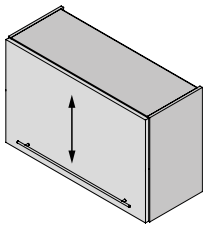
Kinvaro flap system	11				
Assembly aids	88				

LEGEND

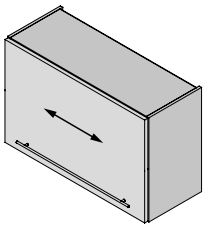
HV	Height adjustment

KINVARO
T-71 adjustment facilities

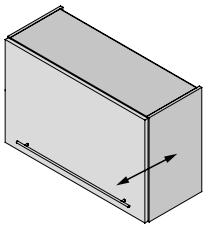




Height adjustment (HV)
+/- 1,5 mm

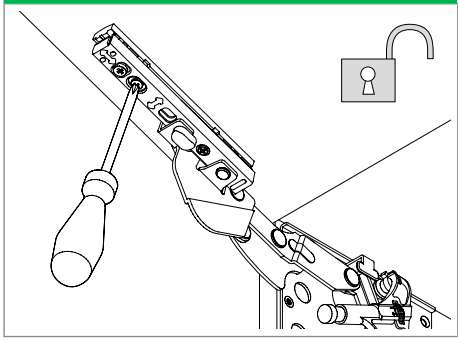
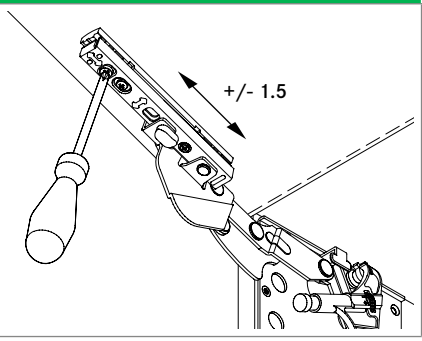
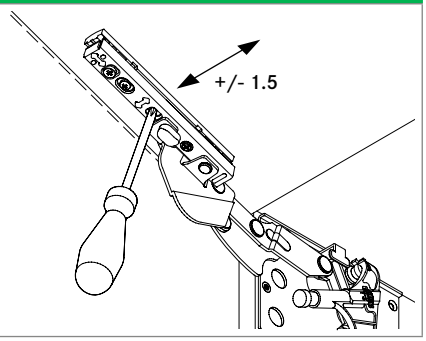


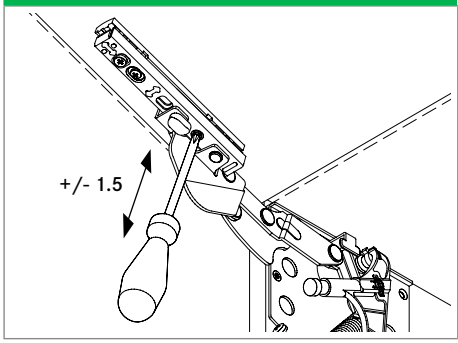
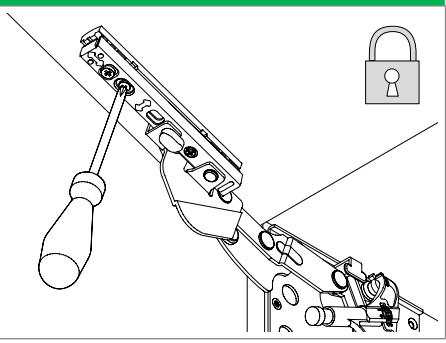
Side adjustment (SV)
+/- 1,5 mm



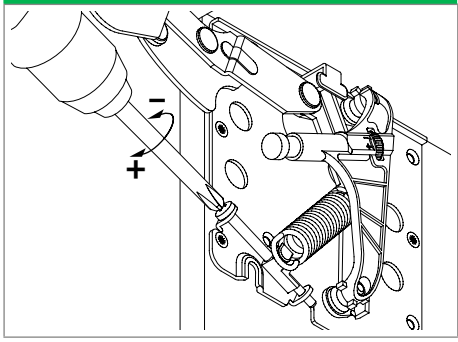
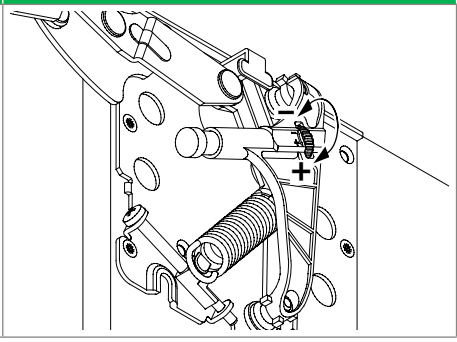
Depth adjustment (TV)
+/- 1,5 mm

All adjustments can be carried out independently of each other.

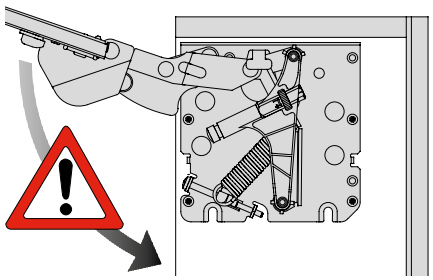
Unlocking	Height adjustment (HV)	Side adjustment (SV)
		

Depth adjustment (TV)	Locking	
		

ADJUSTMENTS

Adjusting the spring force	Adjusting the closing damper
	

WARNING

Note


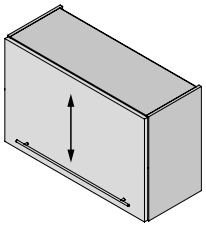
PAGE REFERENCES

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Assembly aids	88				

LEGEND

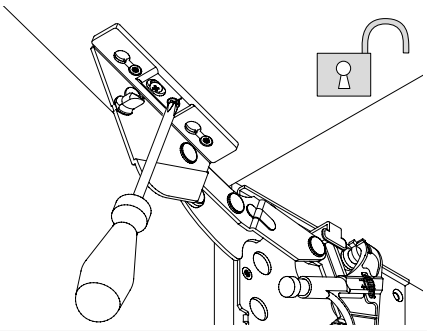
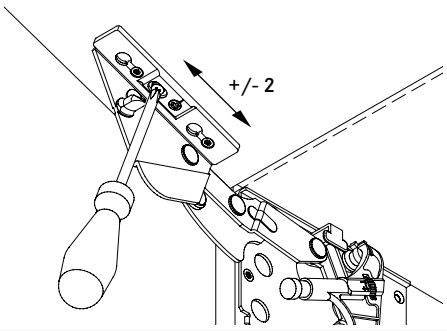
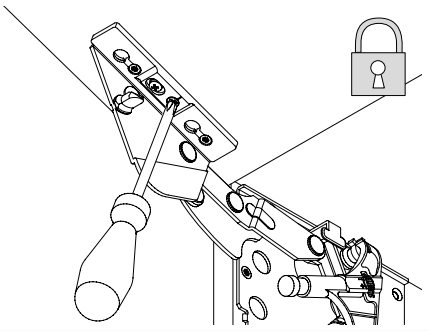
HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

KINVARO
T-75 adjustment facilities

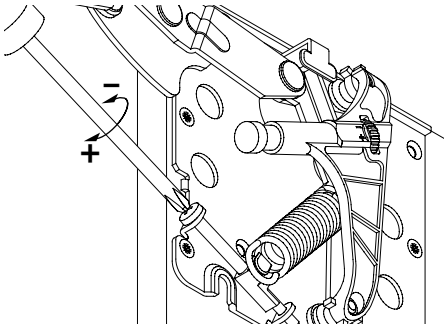
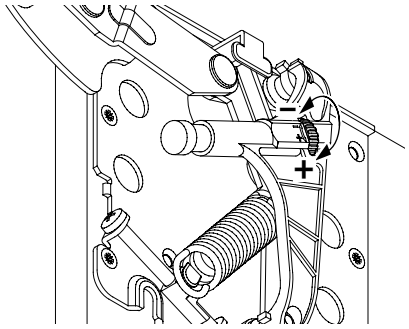


Height adjustment (HV)
+/-2 mm

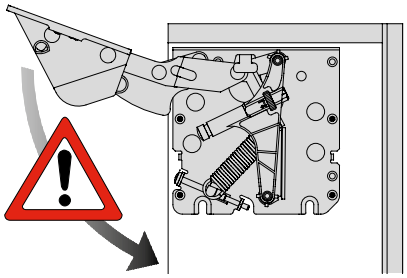
All adjustments can be carried out independently of each other.

Unlocking	Height adjustment (HV)	Locking
		

ADJUSTMENTS

Adjusting the spring force	Adjusting the closing damper	
		

WARNING

		Note
		

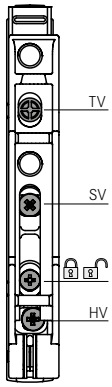
PAGE REFERENCES

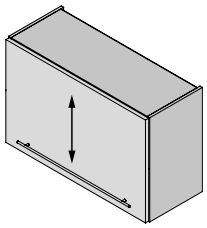
Kinvaro flap system	11				
Assembly aids	88				

LEGEND

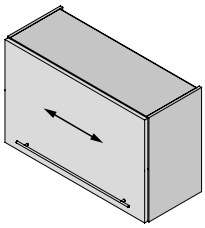
HV	Height adjustment

KINVARO
T-76 adjustment facilities

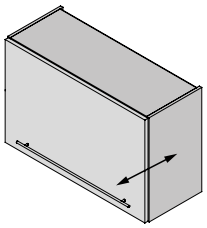




Height adjustment (HV)
+/- 1,5 mm

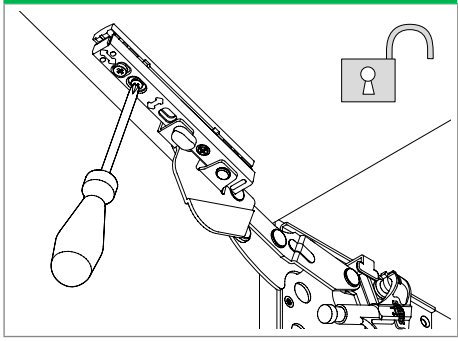
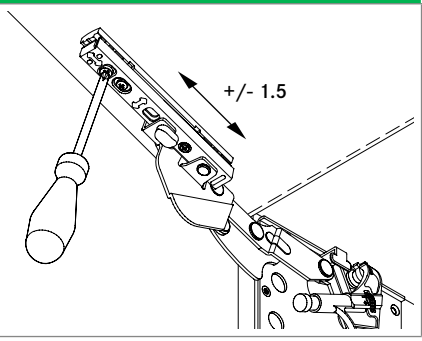
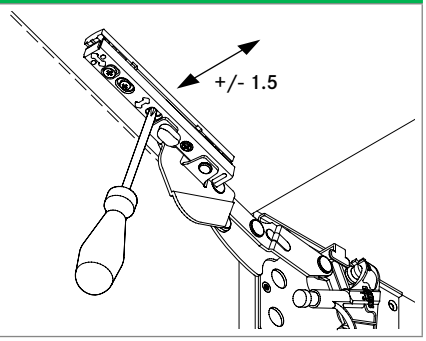


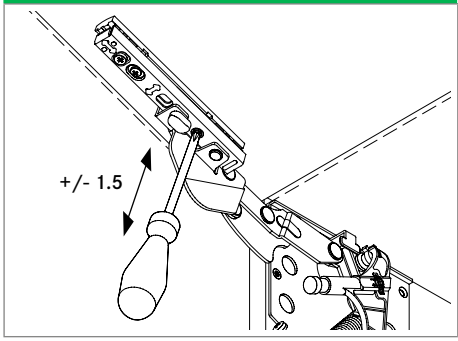
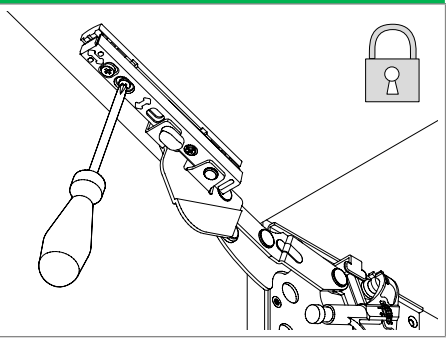
Side adjustment (SV)
+/- 1,5 mm



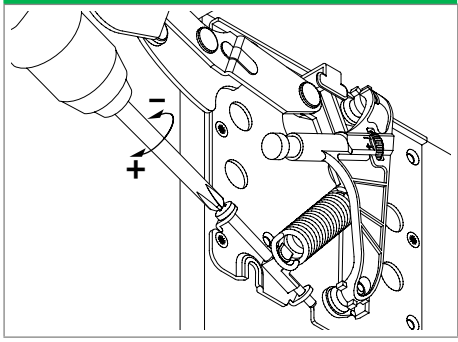
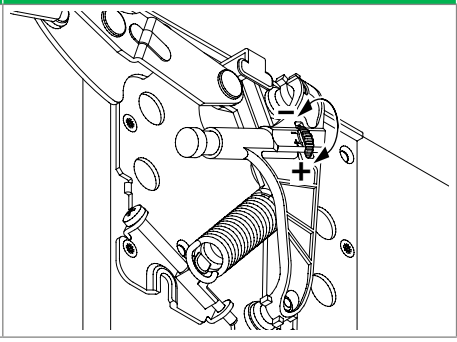
Depth adjustment (TV)
+/- 1,5 mm

All adjustments can be carried out independently of each other.

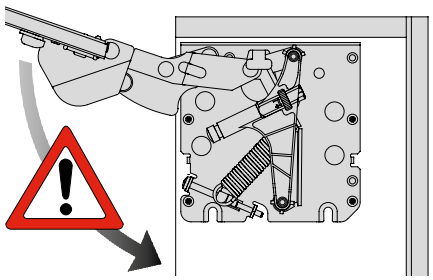
Unlocking	Height adjustment (HV)	Side adjustment (SV)
		

Depth adjustment (TV)	Locking	
		

ADJUSTMENTS

Adjusting the spring force	Adjusting the closing damper
	

WARNING

Note


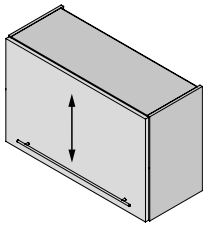
PAGE REFERENCES

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LEGEND

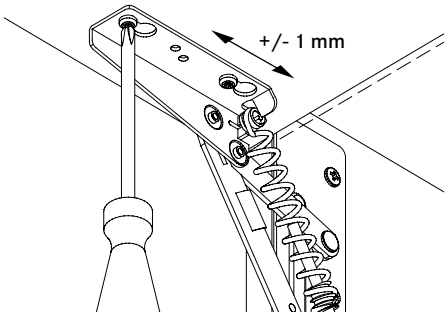
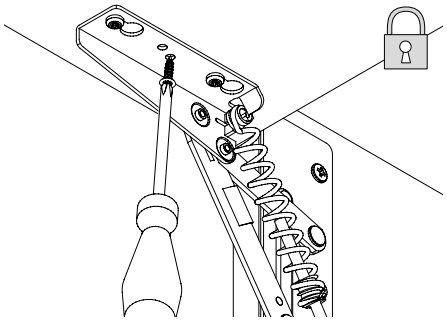
HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

KINVARO
T-57 adjustment facilities

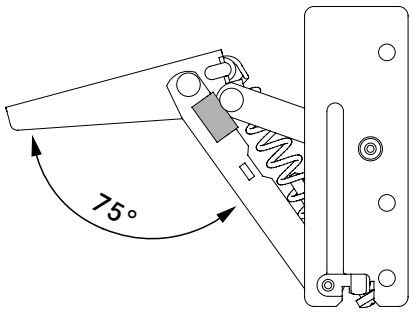
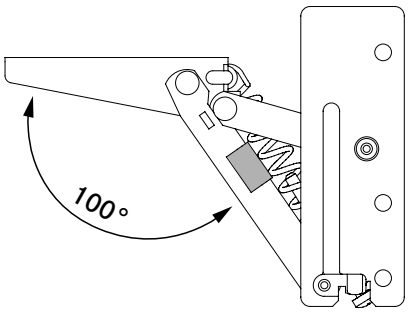
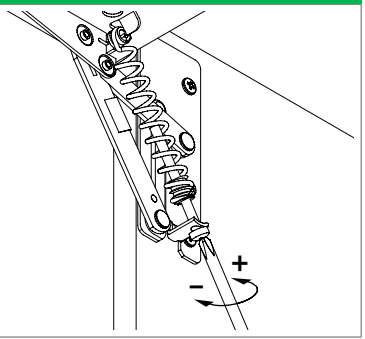


Height adjustment (HV)
+/- 1 mm

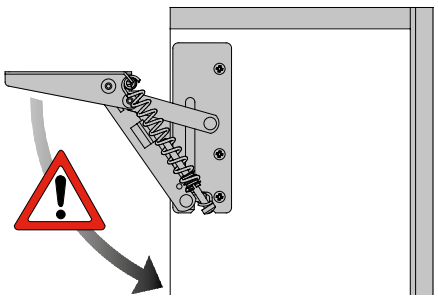
All adjustments can be carried out independently of each other.

Height adjustment (HV)	Locking	
		

ADJUSTMENTS

Adjusting to 75° opening angle	Adjusting to 100° opening angle	Adjusting the spring force
		

WARNING

		Note
		

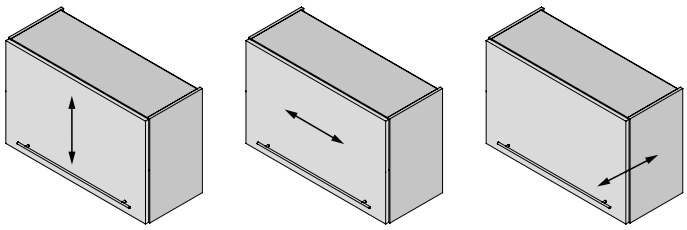
PAGE REFERENCES

Kinvaro flap system	11				
Assembly aids	88				

LEGEND

HV	Height adjustment

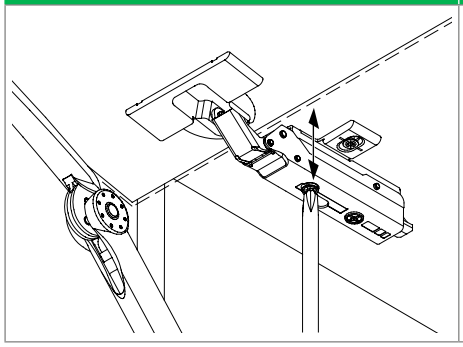
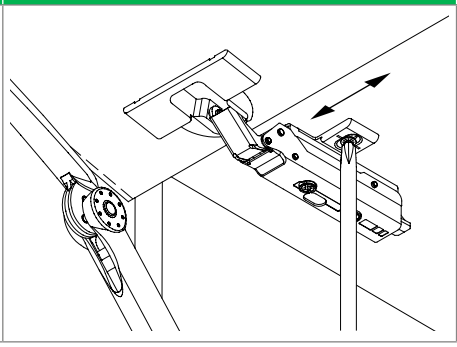
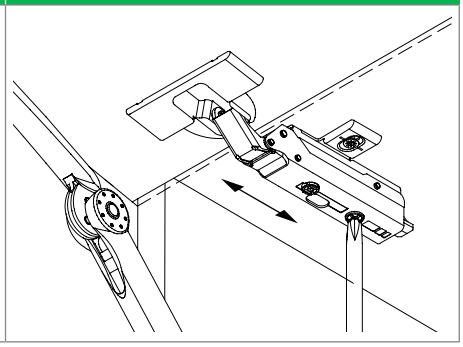
KINVARO
T-105 adjustment facilities



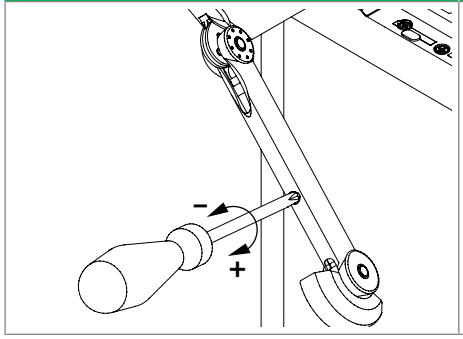
Height adjustment (HV) | Side adjustment (SV) | Depth adjustment (TV)

All adjustments can be carried out independently of each other.

ADJUSTMENT OPTIONS FOR HINGE IN CABINET TOP PANEL

Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
		

ADJUSTMENTS

Adjusting the spring force		
		

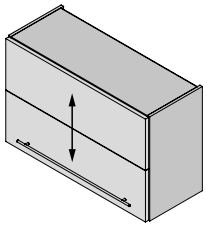
PAGE REFERENCES

Kinvaro flap system	11				
Assembly aids	88				

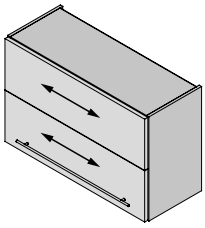
LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

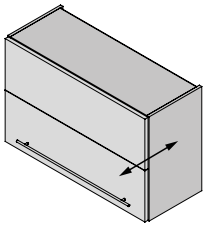
KINVARO
F-20 adjustment facilities



(HV) height adjustment
+/- 1.5 mm



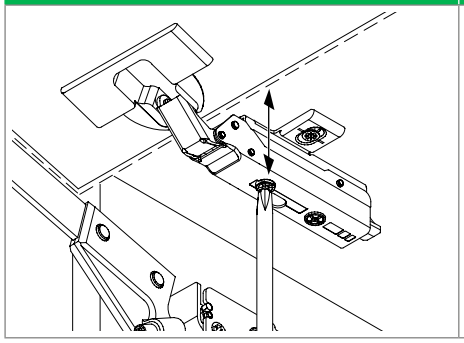
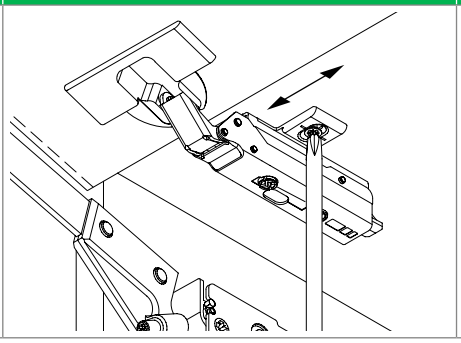
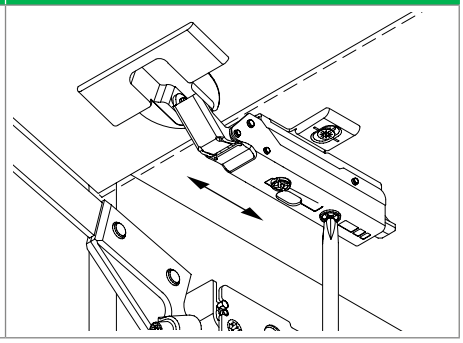
(SV) side adjustment
+/- 2 mm



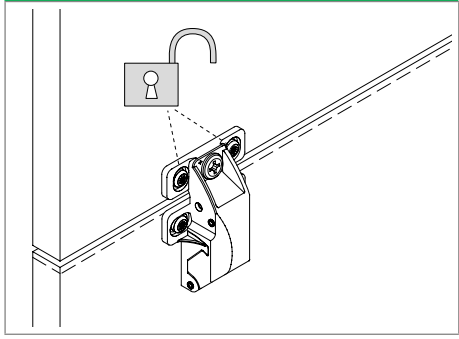
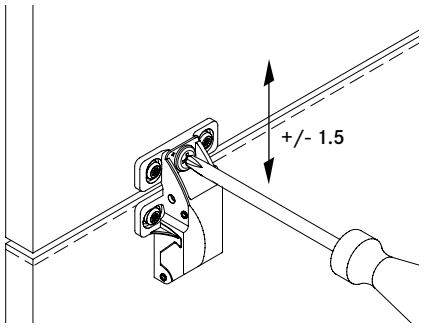
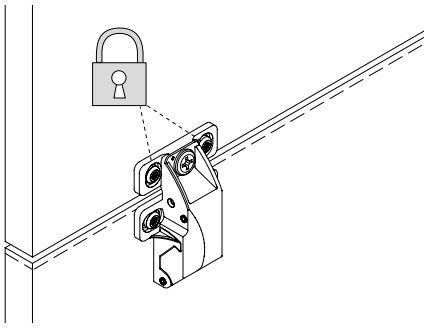
(TV) depth adjustment
+/- 0.5 mm

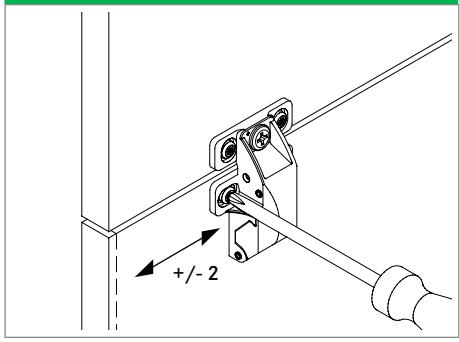
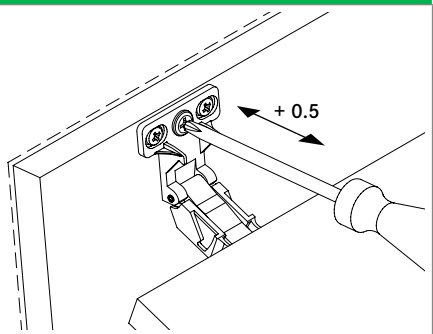
All adjustments can be carried out independently of each other.

ADJUSTMENT OPTIONS FOR HINGE IN CABINET TOP PANEL

Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
		

ADJUSTMENT OPTIONS FOR INTERMEDIATE HINGE

Height adjustment (HV)		
		

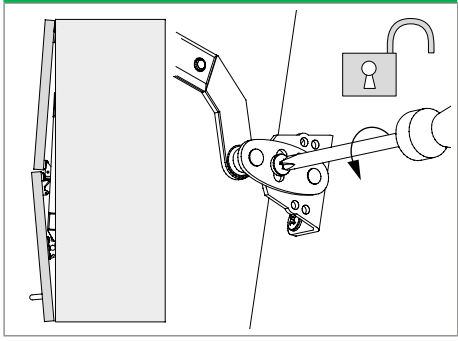
Side adjustment (SV)	Depth adjustment (TV)	
		

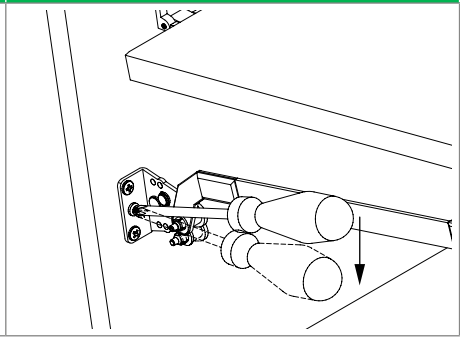
PAGE REFERENCES

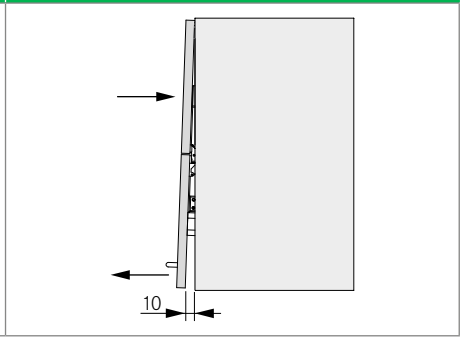
Kinvaro flap system	11
Assembly aids	88

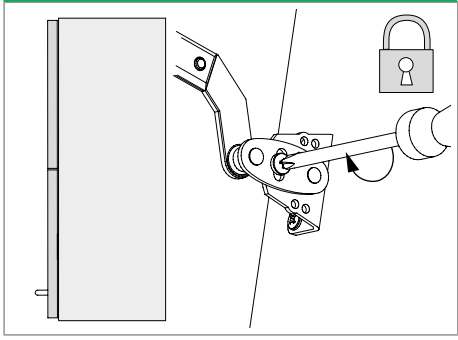
ADJUSTMENTS

Adjusting the flap closing position

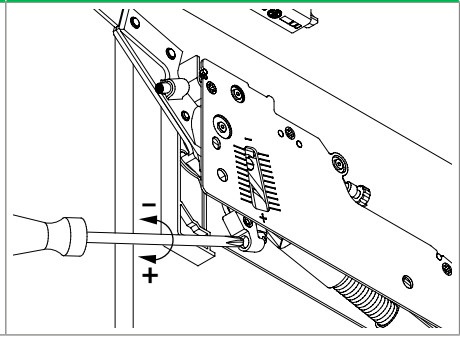




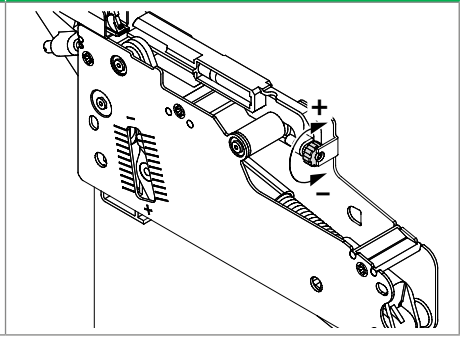




Adjusting the spring force

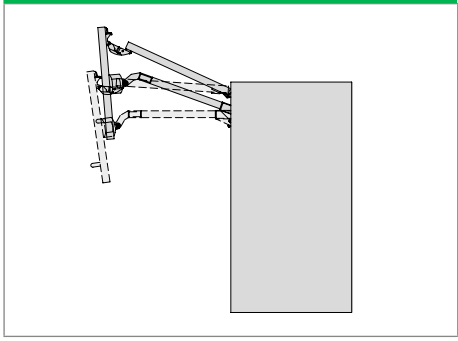


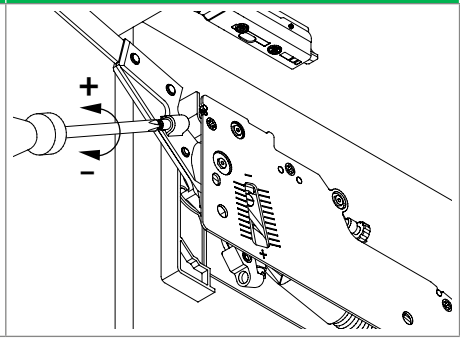
Adjusting the closing damper



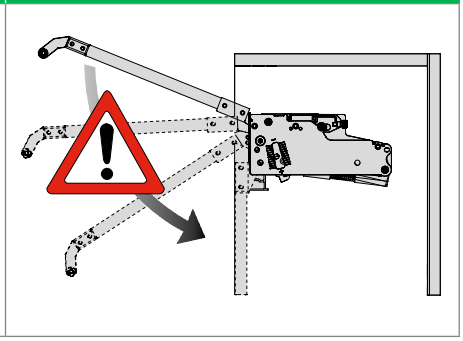
WARNING

Adjusting the opening angle 90° to 120°





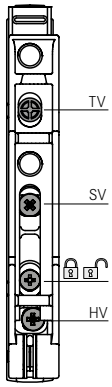
Note

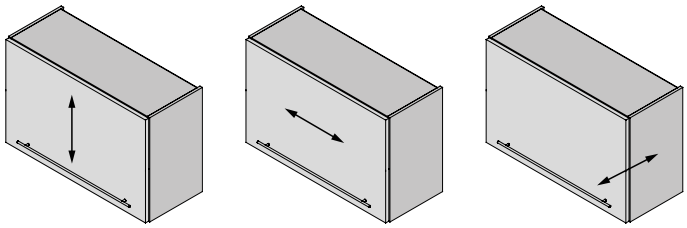


LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

KINVARO
L-80 adjustment facilities



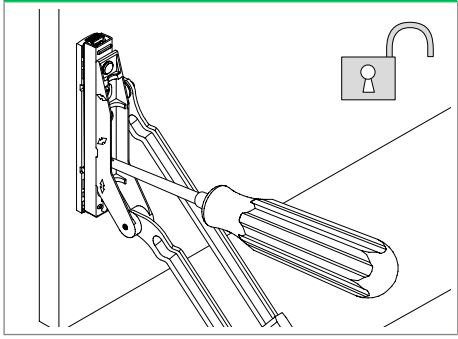
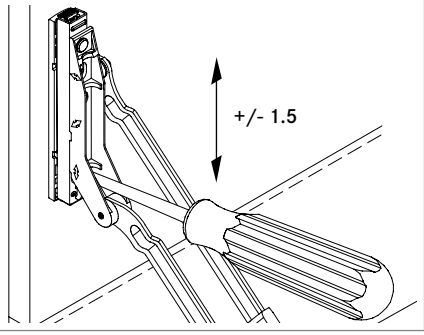
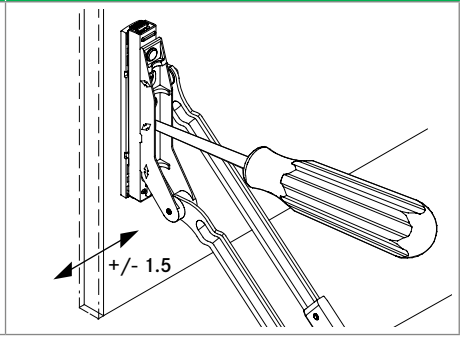


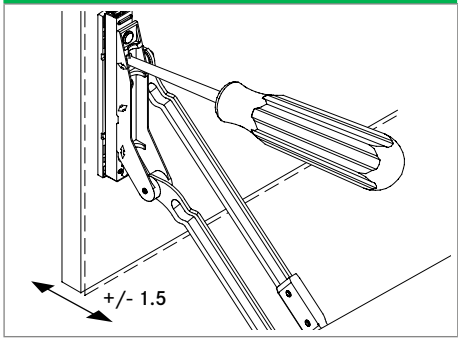
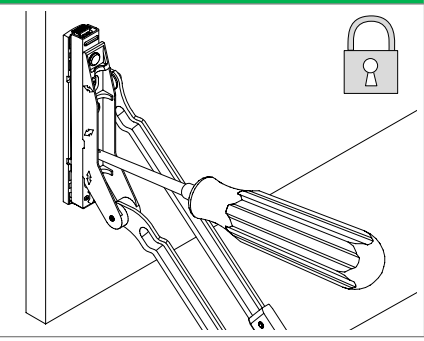
Height adjustment (HV)
+/- 1,5 mm

Side adjustment (SV)
+/- 1,5 mm

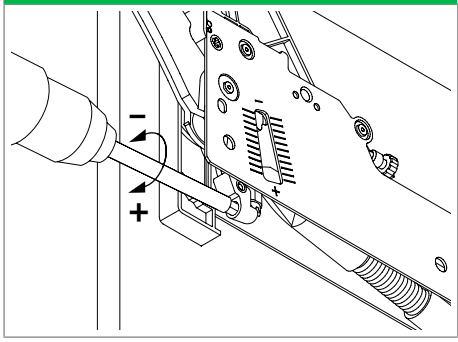
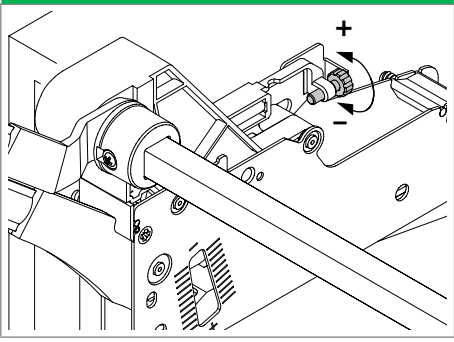
Depth adjustment (TV)
+/- 1,5 mm

All adjustments can be carried out independently of each other.

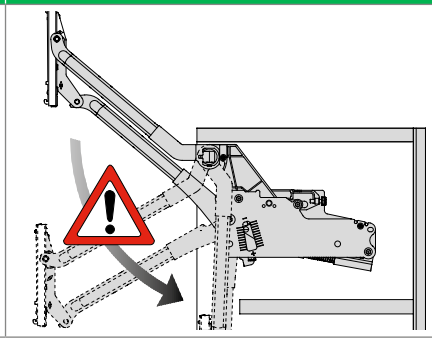
Unlocking	Height adjustment (HV)	Side adjustment (SV)
		

Depth adjustment (TV)	Locking	
		

ADJUSTMENTS

Adjusting the spring force	Adjusting the closing damper
	

WARNING

Note


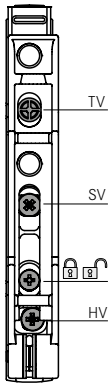
PAGE REFERENCES

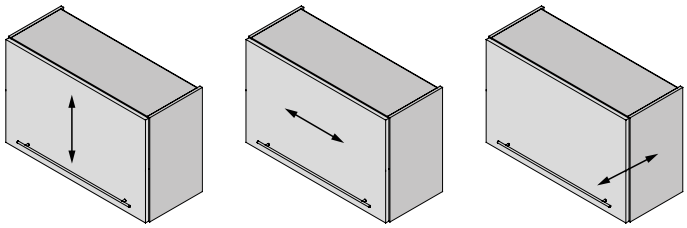
Kinvaro flap system	11				
Assembly aids	88				

LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

KINVARO
S-35 adjustment facilities



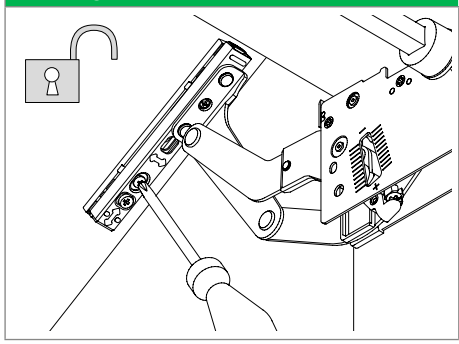
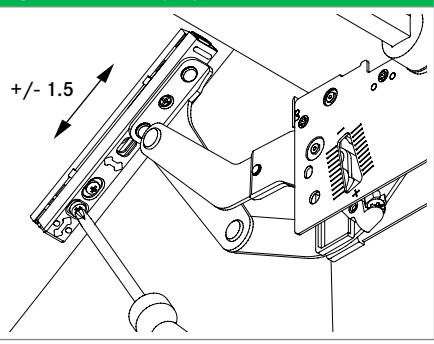
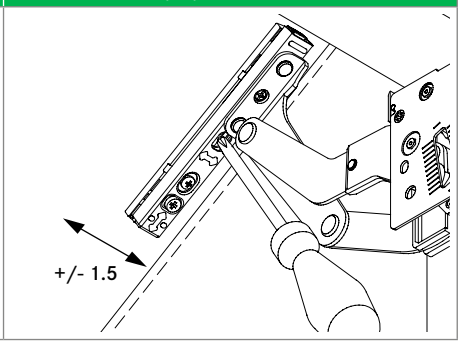


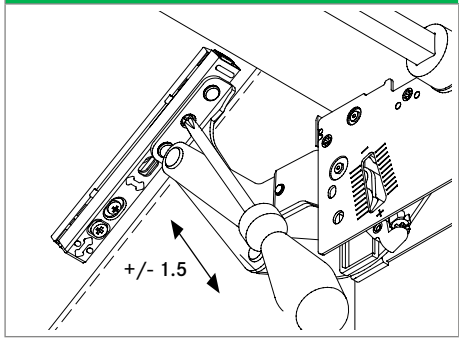
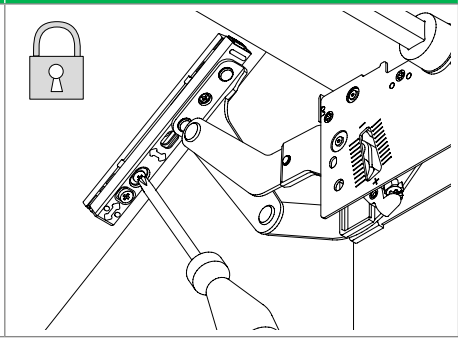
Height adjustment (HV)
+/- 1,5 mm

Side adjustment (SV)
+/- 1,5 mm

Depth adjustment (TV)
+/- 1,5 mm

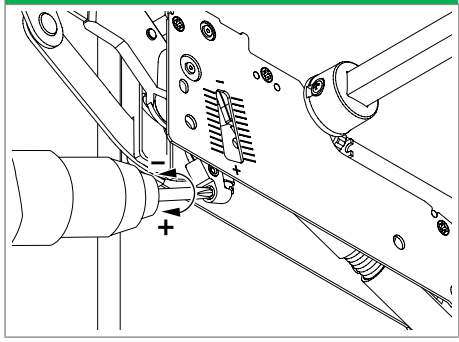
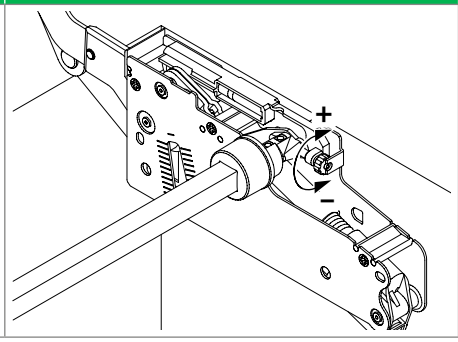
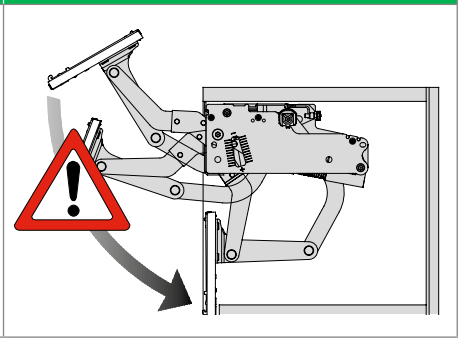
All adjustments can be carried out independently of each other.

Unlocking	Height adjustment (HV)	Side adjustment (SV)
		

Depth adjustment (TV)	Locking	
		

ADJUSTMENTS

WARNING

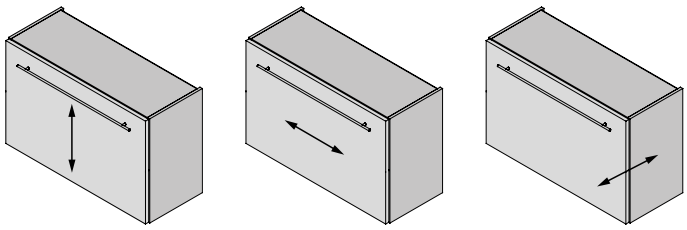
Adjusting the spring force	Adjusting the closing damper	Note
		

PAGE REFERENCES

Kinvaro flap system	11				
Assembly aids	88				

LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment



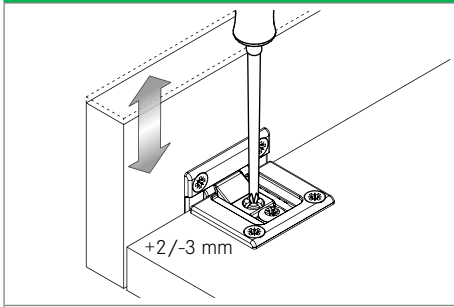
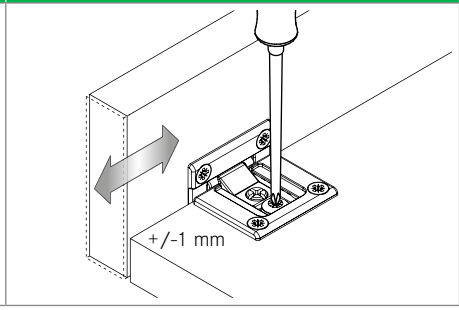
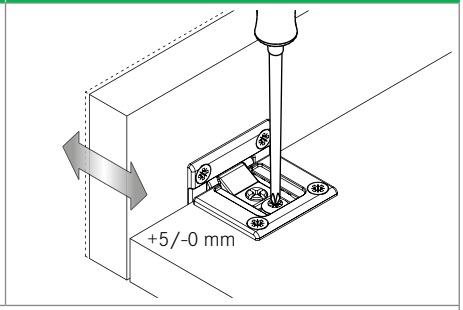
Height adjustment (HV)
+2/-3 mm

Side adjustment (SV)
+/- 1 mm

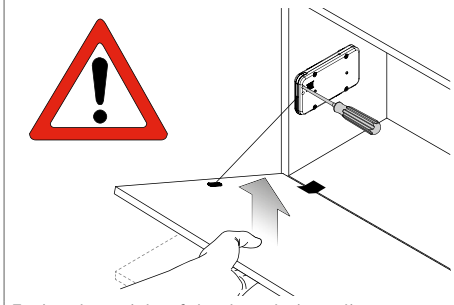
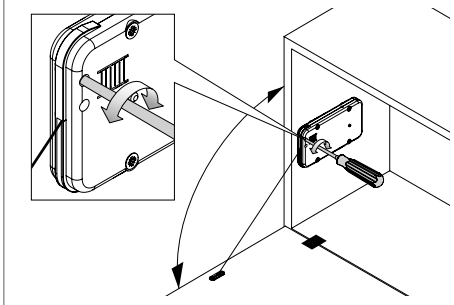
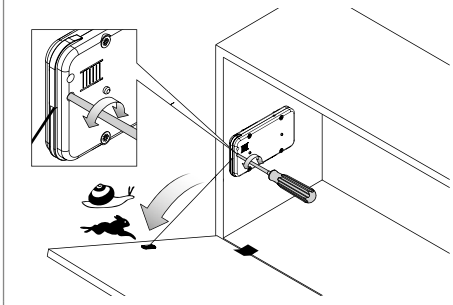
Depth adjustment (TV)
+5/-0 mm

All adjustments can be carried out independently of each other.

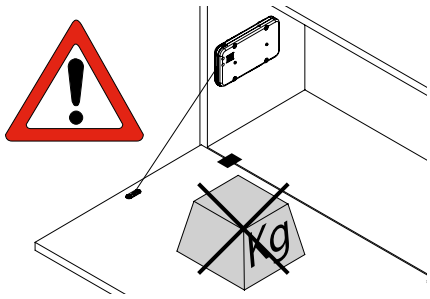
ADJUSTMENT OPTIONS, HINGE IN THE CABINET BASE

Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
		
The adjustment options shown here refer to the Tiomos flap hinge. You can find these in the hinge systems product catalogue.		

ADJUSTMENTS

Adjusting the opening angle		Adjusting the opening speed
 Easing the weight of the door during adjustment.		

WARNING

		Note
		

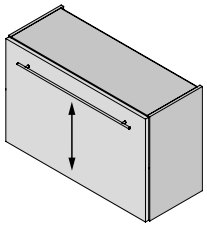
PAGE REFERENCES

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Assembly aids	88				

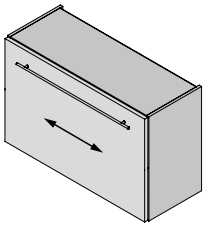
LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment

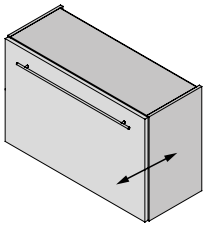
KINVARO
D-S adjustment facilities



Height adjustment (HV)
+2/-3 mm



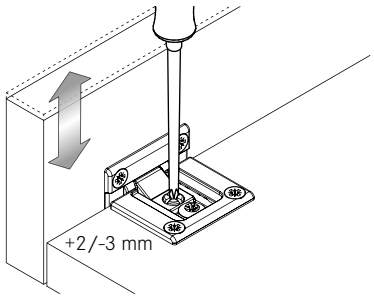
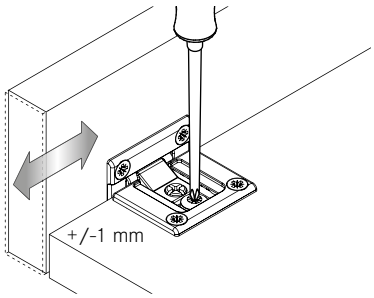
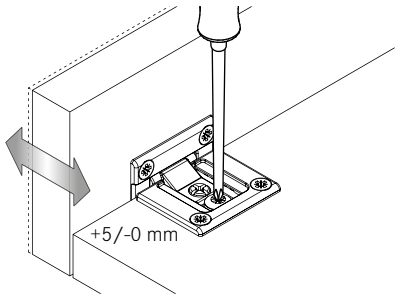
Side adjustment (SV)
+/- 1 mm



Depth adjustment (TV)
+5/-0 mm

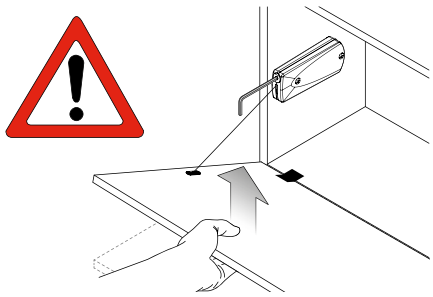
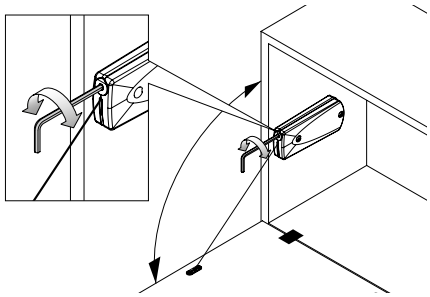
All adjustments can be carried out independently of each other.

ADJUSTMENT OPTIONS, HINGE IN THE CABINET BASE

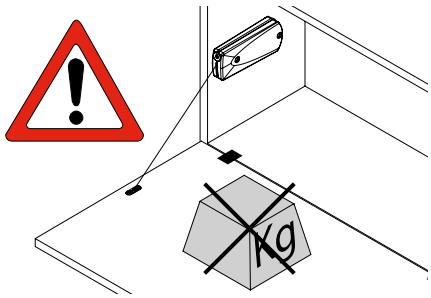
Height adjustment (HV)	Side adjustment (SV)	Depth adjustment (TV)
		

The adjustment options shown here refer to the Tiomos flap hinge. You can find these in the hinge systems product catalogue.

ADJUSTMENTS

Adjusting the opening angle		
		
Easing the weight of the door during adjustment.		

WARNING

		Note
		

PAGE REFERENCES

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LEGEND

HV	Height adjustment
SV	Lateral adjustment
TV	Depth adjustment



DRILLING JIG FOR FLAP FITTINGS

- For Kinvaro, side wall application
  Kinvaro S-35
  Kinvaro L-80
  Kinvaro F-20

Product type	Art. no.
Drilling jig	**F146**100**495**



WOOD DRILL BIT WITH STOP RING

- Used for pre-drilling holes for Euro screws
- Length 85 mm
- With stop ring

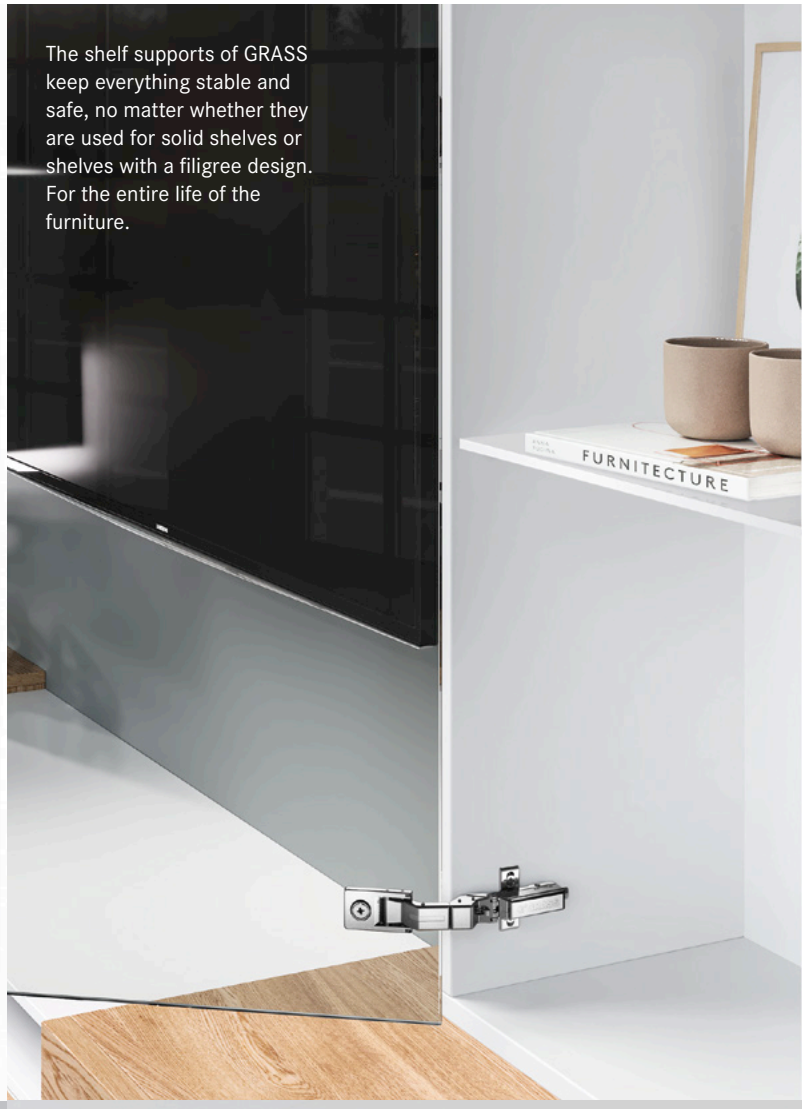
Diameter	Art. no.
5 mm	**F146**092**594**

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Kinvaro flap system	11				

LEGEND





The shelf supports of GRASS keep everything stable and safe, no matter whether they are used for solid shelves or shelves with a filigree design. For the entire life of the furniture.

Robust eccentric connectors and shelf supports for increased stability and a long furniture life.

The strong connector systems FixoGRASS 9000 and 9200 keep the side walls with top, bottom and intermediate shelves securely and firmly in shape. Even when they are loaded with heavy goods.



Small components. High efficiency.

Cabinet making accessories
for a firm hold

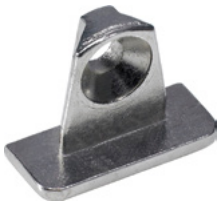
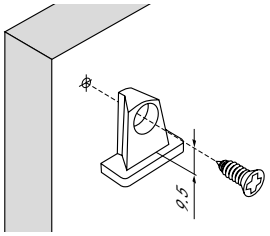
	Description		Page
	Cabinet making accessories Shelf support		92
	Cabinet making accessories Mitre joint fastener, front panel adjuster, door buffer		94
	Cabinet making accessories Eccentric connector FixoGRASS 9200		96

CABINET MAKING ACCESSORIES
Shelf support

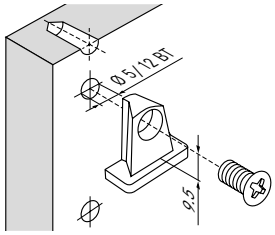


- Connecting shelf support FixoGRASS 9000
- Prevents any „buckling“ of the cabinet side walls
- For heavily loaded shelves
- For shelves with a minimum thickness of 19 mm
- Clip prevents fitting from working loose

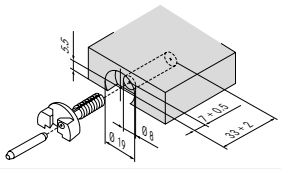
SHELF SUPPORT FOR SCREWING ON WITH WOOD SCREWS

Description			Material/surface	Art. no.
• Shelf support for screwing on with wood screws (Length 13 mm, dia. 3.5 mm) • Prevents any „buckling“ of the cabinet side walls • For heavily loaded shelves • For shelves with a minimum thickness of 19 mm • Clip prevents fitting from working loose			Zamak/Zinc plated	**F148**043**028**

SHELF SUPPORT FOR SCREWING ON WITH EURO SCREWS

Description			Material/surface	Art. no.
• Shelf support for screwing on with Euro screws (Length 13 mm, dia. 6 mm) • Prevents any „buckling“ of the cabinet side walls • For heavily loaded shelves • For shelves with a minimum thickness of 19 mm • Clip prevents fitting from working loose			Zamak/Zinc plated	**F148**043**036**

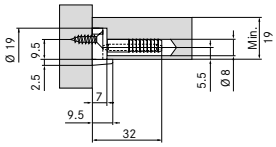
HOUSING

Description			Material/color	Art. no.
			Plastic/White	**F148**043**056**

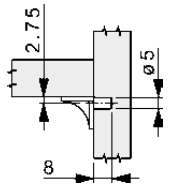
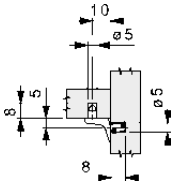
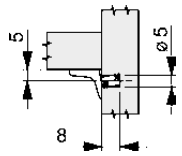
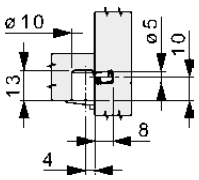
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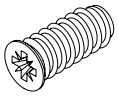
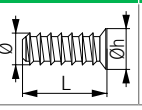
EXPANDING PIN FOR HOUSING

Description			Material/surface	Art. no.
			Die-cast zinc/Zinc plated	**F148**043**053**

SHELF SUPPORT

Description			Material/surface	Art. no.
			Zamak/Nickel plated	**F069**073**459**
				**F069**073**463**
				**F069**073**464**
				**F069**073**460**

EURO SCREW

	Ø	L	Øh	Colour	Material	Internal drive		Art. no.
	6 mm	13 mm	8 mm	Nickel	Steel	Z2		**F145**083**545**

LEGEND

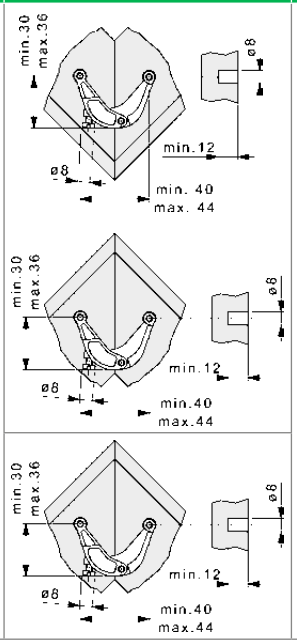
BT	Drilling depth

CABINET MAKING ACCESSORIES

Mitre joint fastener, front panel adjuster, door buffer



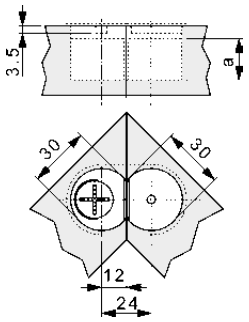
MITRE JOINT FASTENER

Description			Material	Art. no.
			Zamak	**F069**073**454**

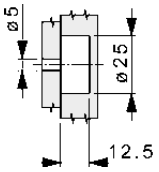
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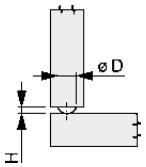
MITRE JOINT FSTNRS FOR THICK PROFILES AND WORKTOPS

Description			Material/color	Art. no.
• Drilling depth (a) 12 mm			Zamak/Plastic/ White	**F069**073**452**

FRONT PANEL ADJUSTER

Description			Material/color	Art. no.
• Fixing with M4 screw			Plastic/Black	**F069**073**381**

DOOR BUFFER

Description			Material/color	Art. no.
• Door buffer dia. 7 mm (D), H 1.5 mm			Plastic/0 - not applicable	**F146**073**835**

LEGEND

BT	**Drilling depth**

CABINET MAKING ACCESSORIES

Eccentric connector FixoGRASS 9200

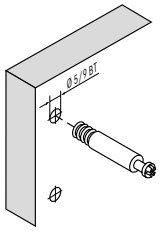


- For connecting the side walls with worktops, base panels or shelves
- Small but sturdy connection fitting
- A range of steel bolts for different application options
- Easy to install
- Eccentric installation with hex size 5 Allen key

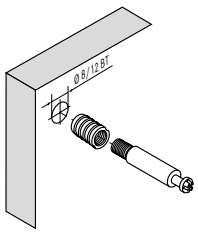
ECCENTRIC

Description			Material/surface	Art. no.
• Eccentric for board thickness 14–16 mm			Zamak/Nickel plated	**F148**043**000**
• Eccentric for board thickness 17–20 mm				**F148**043**007**
• Eccentric for board thickness 21–23 mm				**F148**043**015**

FIXOGRASS 9200 CORNER BOLT FOR FIXING WITH EURO THREAD

Description			Material/surface	Art. no.
• Corner bolt for fixing with Euro thread dia. 6 mm			Die-cast zinc/Zinc plated	**F148**044**883**

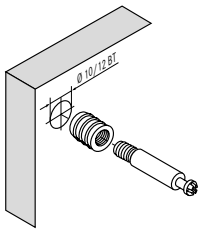
FIXOGRASS 9200 CORNER BOLT FOR FIXING WITH DOWEL DIA. 8 MM/M5

Description			Material/surface	Art. no.
• Corner bolt for fixing with dowel dia. 8 mm/M5			Die-cast zinc/Zinc plated	**F148**044**748**
• Dowel dia.8 mm/M5			Plastic/Plastic	**F071**085**142**

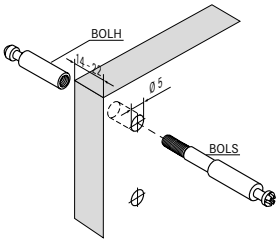
PAGE REFERENCES

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FIXOGRASS 9200 CORNER BOLT FOR FIXING WITH DOWEL DIA. 10 MM/M6

Description			Material/surface	Art. no.
• Corner bolt for fixing with dowel dia. 10 mm/M6			Die-cast zinc/Zinc plated	**F148**043**024**
• Dowel dia.10 mm/M6			Plastic/Plastic	**F145**083**050**

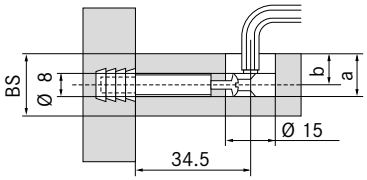
FIXOGRASS 9200 TWIN BOLTS FOR SCREWING IN A ROW OF HOLES

Description			Material/surface	Art. no.
• Twin bolts for fitting in dia. 5 mm holes			Die-cast zinc/Zinc plated	**F148**044**841**
				**F148**044**842**

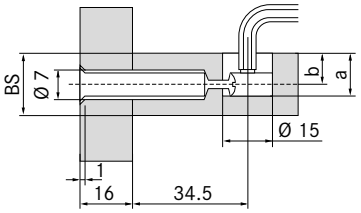
PLANNING INFORMATION

All dimensions in millimetres

Installation dimensions



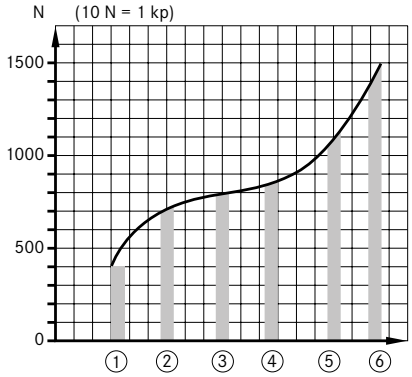
Installation drawing with corner bolt



Installation drawing with countersunk bolt or twin bolt

	Board thickness		
	14 - 16	17 - 20	21 - 23
a	12.5	15.0	16.2
b	8.0	9.5	11.0

LOADING WEIGHT



1 Dowel dia. 8/M5 (not glued)
2 Dowel dia. 8/M5 (glued)
3 Euro screw dia. 6 x 11
4 Dowel dia. 10/M6 (not glued)
5 Dowel dia. 10/M6 (glued)
6 Twin bolts

NOTICE

The maximum load shown in the diagram is intended for reference and is based on the axial pull-out resistance (of the bolt on the cabinet side).

The key factors are the material quality and bore diameter.

In case of doubt, the pull-out resistance must be determined by means of a trial fitting.

LEGEND

BOLH	Bolt sleeve
BOLS	Bolt screw
BS	Base thickness
BT	Drilling depth

kp	Kilopond
N	Newton

ART. NO. INDEX

Article number/packaging code/page number

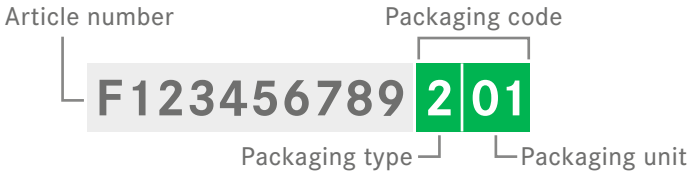
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F069073459	253			93
F069073460	253			93
F069073463	240			93
F069073464	253			93
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F069149388	513			60
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F146092594	501			88
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PACKAGING TYPE

Code	Explanation
1	PE (bag, film or band)
2	Cardboard box
3	Reusable packaging (cardboard)
4	Reusable packaging (different containers)
5	PE (bag, film or band) in cardboard box
6	Cardboard box in cardboard box
7	Cardboard box in various containers
8	PE (bag, film or band) in different containers

PACKAGING UNIT

Code	Units	Code	Units	Code	Units
01	01	27	140	53	2500
02	02	28	150	54	3000
03	04	29	170	55	4000
04	05	30	175	56	5000
05	06	31	180	57	6000
06	08	32	190	58	7000
07	10	33	200	59	8000
08	12	34	225	60	9000
09	14	35	240	61	10000
10	15	36	250	62	15000
11	20	37	275	63	20000
12	24	38	300	64	30000
13	25	39	400	65	16
14	30	40	500	66	21
15	35	41	550	67	22
16	40	42	600	68	18
17	50	43	700	69	160
18	60	44	750	70	45
19	70	45	800	71	9
20	75	46	900	72	36
21	80	47	1000	73	44
22	85	48	1100	74	1250
23	100	49	1200	75	360
24	120	50	1500	99	x
25	125	51	2000		
26	136	52	2200		

TERMS AND DEFINITIONS

Unit	X pieces/sets in specific packaging
Pieces	X parts of one type (e.g. installation hooks)
Set	X parts of different types (e.g. railing, railing clip [front/back] and cover cap, one each left/right)

* upon request

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09 | 2023 – EN – Subject to change. Typesetting and printing errors excepted.



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