



Folding door system:
WingLine L

Technik für Möbel


Hettich

Folding door system

- ▶ WingLine L / attached to the side
- ▶ All the benefits at a glance



Experiencing folding doors in a new way. WingLine L lets you produce folding sliding doors in a completely new dimension of convenience. The revolutionary Push / Pull to move opening mechanism provides access to everything inside the cabinet with just one movement of the hand. An impressive panorama effect! Further highlights: optimized

running performance, soft opening and closing, tool-less installation as well as minimal door protrusion for efficiently organizing the space inside. WingLine L competently and securely moves door wings weighing up to 55 lbs and measuring up to 94½" in height: a talented all rounder for the bedroom, kitchen and office.



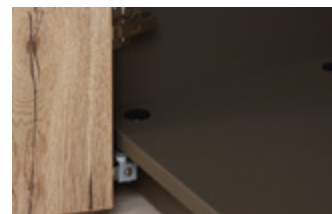
Panorama convenience: access to 65 sf of cabinet content, leaving everything in perfect view.



For easy and gentle opening: Push / Pull to move module first class practical convenience.



Optimum use of space: minimal door protrusion, with door reliably held in place while open.



Purist and convenient: no distracting profile on the bottom panel.



Handleless perfection: The door set opens all the way with just one push - from the Push to move module.



Impresses everywhere: WingLine L is suitable for all commonly used door wing formats.



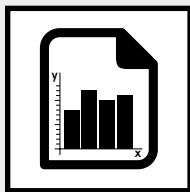
Impressive running performance: as smooth as never before and virtually silent.



Easy and cost effective: intelligent installation accessories for efficient one person installation.

Folding door system

- ▶ WingLine L / attached to the side
- ▶ Summary



Performance summary

4 – 5

- ▶ Technical details in brief
- ▶ Door sizes
- ▶ Operating principle



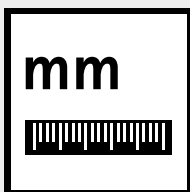
System summary

6 – 7



System components

8 – 15



Planning dimensions

16 – 20



Installation

21 – 25

Folding door system

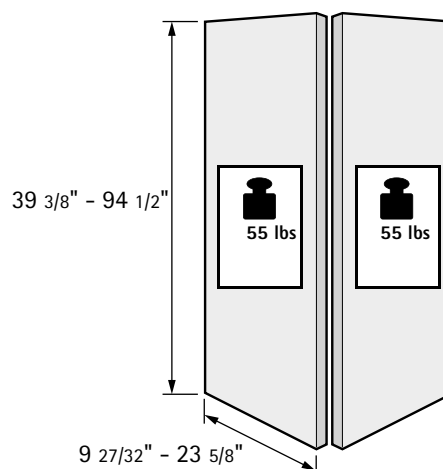
- ▶ WingLine L / attached to the side
- ▶ Performance summary



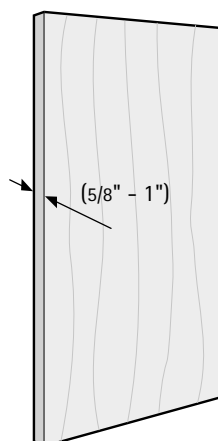
Technical details in brief

- ▶ For one folding door with 2 wings
- ▶ Overlay door position
- ▶ For wooden doors
- ▶ Push / Pull to move
- ▶ Suitable for use with Sensys hinge with Silent System
- ▶ Door wing weight up to 55 lbs
- ▶ Door height up to 94 1/2"
- ▶ Door wing width up to 24"
- ▶ Tested with 40000 cycles

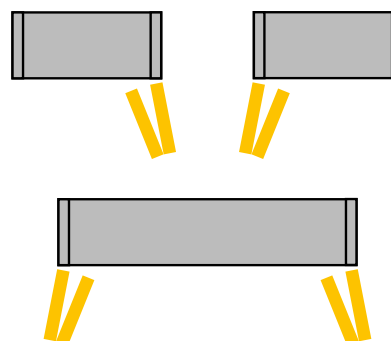
Door format and door weight



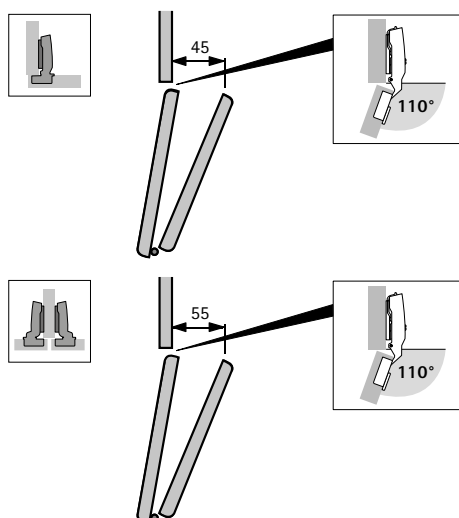
Door material



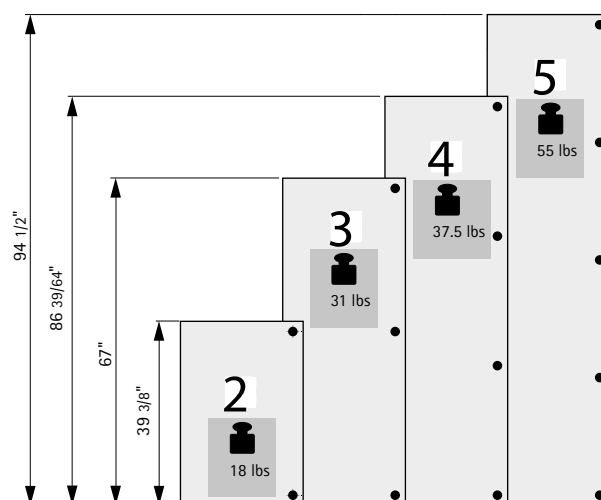
Number of door wings and door position



Door protrusion



Recommended number of carcase and folding door hinges

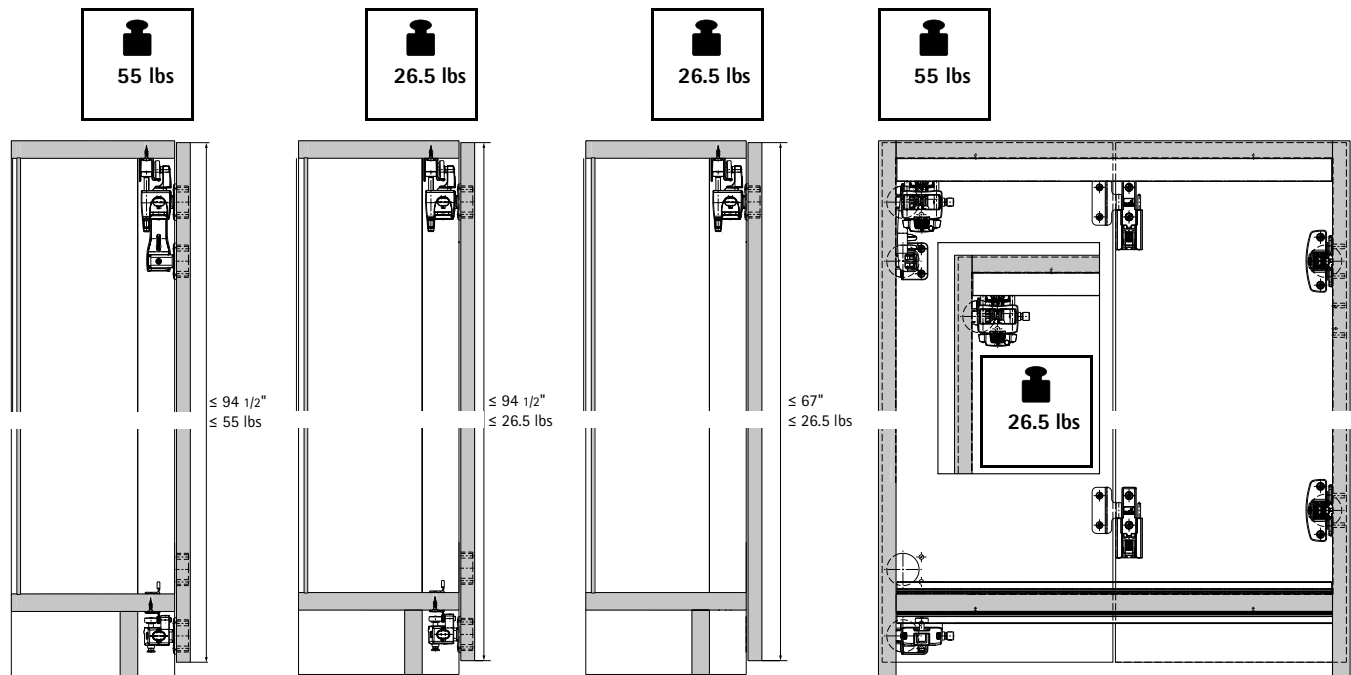


Folding door system

- ▶ WingLine L / attached to the side
- ▶ Performance summary

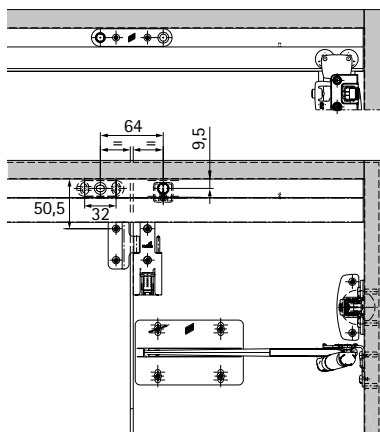
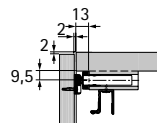
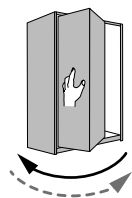


Operating principle / WingLine L

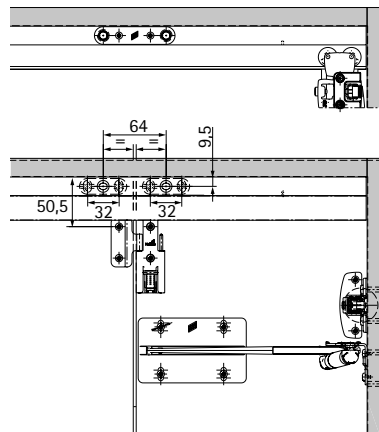
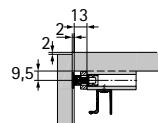
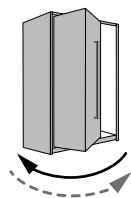


Operating principle / WingLine L with Push to move / Pull to move / Pull to move Silent

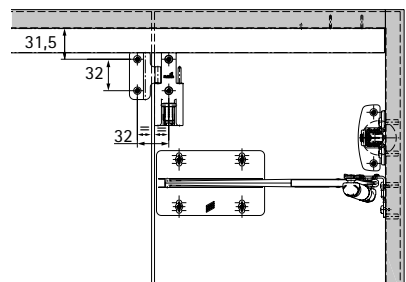
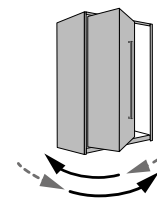
Push to move



Pull to move



Pull to move Silent



Folding door system

- ▶ WingLine L / attached to the side
- ▶ System summary

The new multifold: WingLine L



- Runner and guide profiles**
- Runner profile
 - Guide profile for installing on the plinth or under the plinth



- Push to move/Pull to move**
- Mechanical, soft opening of the door panel set
 - 3 force options depending on door panel width and weight



Runners

- Tool-less fast installation
- Running component for door panel weight up to 55 lbs
- Running component for door panel weight up to 26,5 lbs



- Push to move**
- Reliably keeps the door closed



Guide component

- Tool-less fast installation
- Installation on the plinth
- Installation under the plinth



Carcass hinges

- Sensys 110° or 95°, with or without self closing feature



Intelligent installation accessories

- Profile installation
- Positioning centre hinges
- Positioning Push/Pull to move



Centre hinge

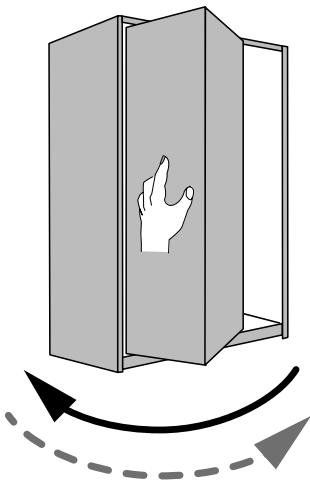
- 2 part
- Tool-less fast installation

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System summary

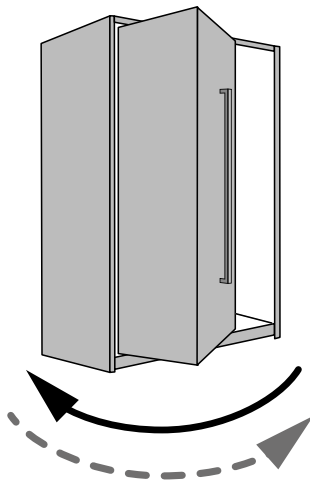
WingLine L with Push to move and Pull to move

Pull to move and Push to move are two innovative and unique opening mechanisms for folding door systems. A slight pull on the handle or gentle push on the (handleless) front automatically opens the door all the way, taking it to the open position in a cushioned movement. A fascinating opening effect that works all mechanically! This means it requires neither cables nor any connection to the power supply.



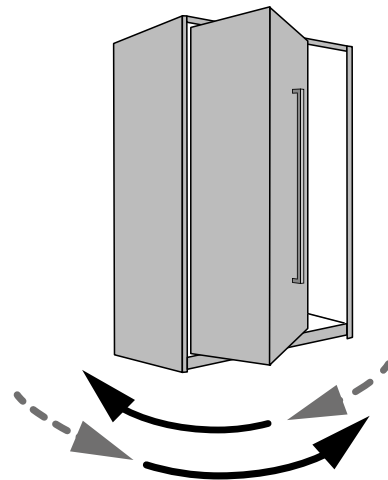
Push to move

The door opens automatically in response to a light press on the front and is returned to the closed position by hand.



Pull to move

The door opens automatically from a 1° opening angle in response to a minimal pull on the handle and is returned to the closed position by hand.

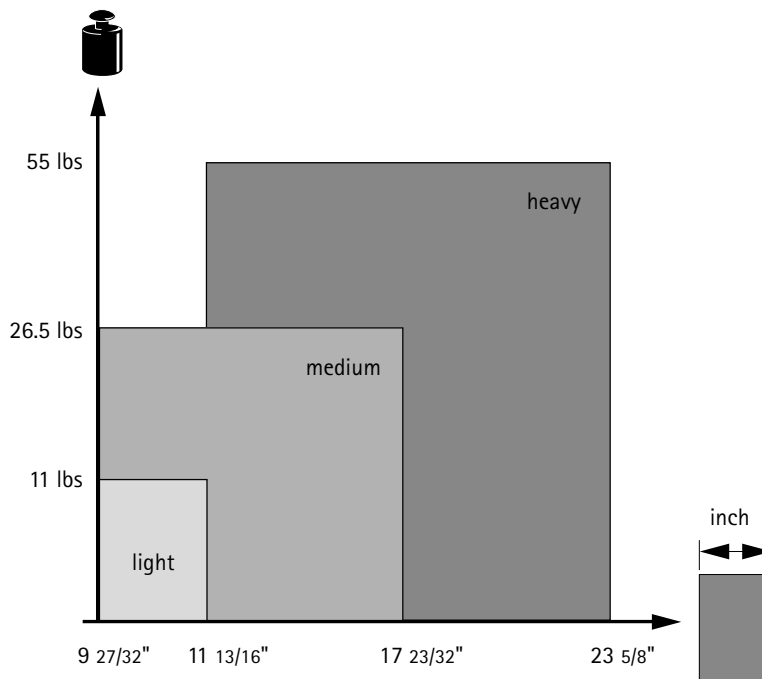


Pull to move Silent

The door opens automatically from a 35° opening angle in response to a slight pull on the handle and is returned to the closed position in a cushioned movement.

Capacity classes

For Push to move and Pull to move to work perfectly in conjunction with every door size and weight, the modules are available in various capacity classes. Choose the right set for your particular application. A trial mounting is recommended!

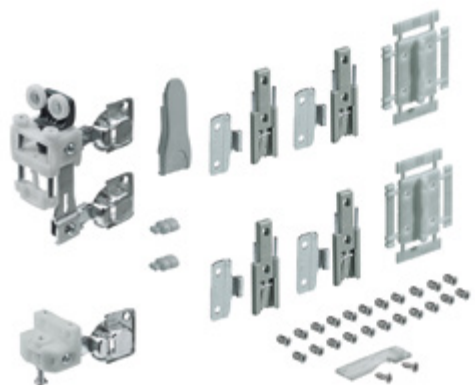


Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components



WingLine L set of fittings for max. door wing weight of 55 lbs with self closing feature



- ▶ Set of fittings contains all the parts required for 1 folding sliding door with 2 wings
- ▶ Set of fittings can be used for standard folding door application without opening mechanism
- ▶ Set of fittings can be used in combination with Pull to move Silent
- ▶ Running and guide components with spring assisted self closing feature
- ▶ Running and guide components with tool-less fast installation function

Set comprises:

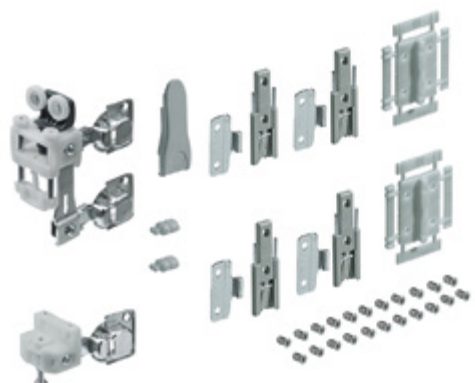
- ▶ 1 running component, 55 lbs max, with self closing feature
- ▶ 1 guide component with self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids, centre hinges
- ▶ 1 running component cover
- ▶ 2 door dampers
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

- ▶ Please order profiles separately
- ▶ Cabinet body hinges with self closing feature must be used with this set of fittings. Recommendation: Sensys 8645i opening angle 110°

Order no. / Cabinet side		PU
left	right	
9 237 852	9 237 890	1 set

WingLine L set of fittings for max. door wing weight of 55 lbs without self closing feature



- ▶ Set of fittings contains all the parts required for 1 folding sliding door with 2 wings
- ▶ Set of fittings can only be used in combination with Pull to move and Push to move
- ▶ Running and guide components without spring assisted self closing feature
- ▶ Running and guide components with tool-less fast installation function

Set comprises:

- ▶ 1 running component, 55 lbs max, without self closing feature
- ▶ 1 guide component without self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids, centre hinges
- ▶ 1 running component cover
- ▶ 2 door dampers
- ▶ Fixing screws

Advice:

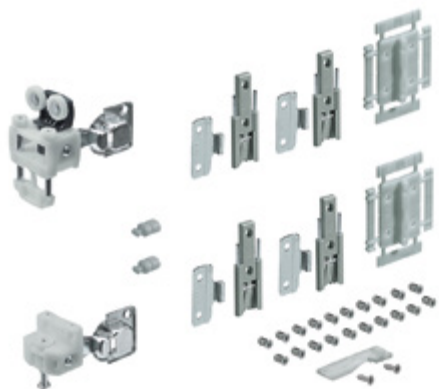
- ▶ Please order profiles separately
- ▶ Cabinet body hinges without self closing feature must be used with this set of fittings. Recommendation: Sensys 8675 opening angle 110°

Order no. / Cabinet side		PU
left	right	
9 237 880	9 237 881	1 set

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components

WingLine L set of fittings for max. door wing weight of 26.5 lbs with self closing feature and bottom guide



- ▶ Set of fittings contains all the parts required for 1 folding sliding door with 2 wings
- ▶ Set of fittings can be used for standard folding door application without opening mechanism
- ▶ Set of fittings can be used in combination with Pull to move Silent
- ▶ Running and guide component with spring assisted self closing feature
- ▶ Running and guide component with fast installation function

Set comprises:

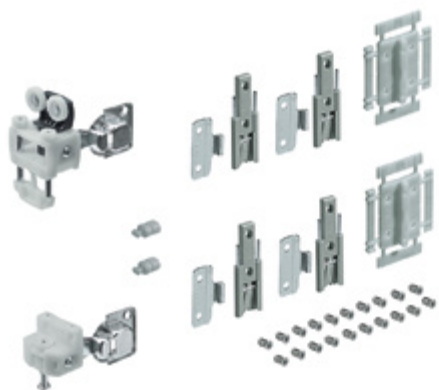
- ▶ 1 running component, 26.5 lbs max, with self closing feature
- ▶ 1 guide component with self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids, centre hinges
- ▶ 2 door dampers
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

- ▶ Please order profiles separately
- ▶ Cabinet body hinges with self closing feature must be used with this set of fittings. Recommendation: Sensys 8645i opening angle 110°

Order no. / Cabinet side		PU
left	right	
9 237 882	9 237 906	1 set

WingLine L set of fittings for max. door panel weight of 26.5 lbs without self closing feature and bottom guide



- ▶ Set of fittings contains all the parts required for 1 folding sliding door with 2 wings
- ▶ Set of fittings can only be used in combination with Pull to move and Push to move
- ▶ Running and guide components without spring assisted self closing feature
- ▶ Running and guide component with tool-less fast installation function

Set comprises:

- ▶ 1 running component, 26.5 lbs max, without self closing feature
- ▶ 1 guide component without self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids, centre hinges
- ▶ 2 door dampers
- ▶ Fixing screws

Advice:

- ▶ Please order profiles separately
- ▶ Cabinet body hinges without self closing feature must be used with this set of fittings. Recommendation: Sensys 8675 opening angle 110°

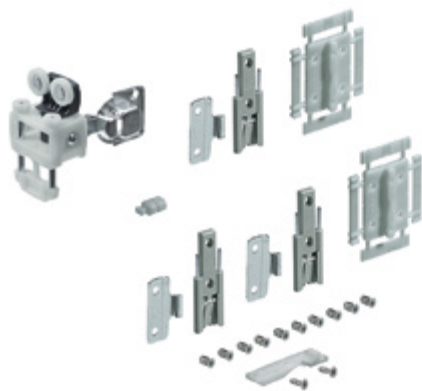
Order no. / Cabinet side		PU
left	right	
9 237 905	9 237 904	1 set

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components



WingLine L set of fittings for max. door panel weight of 26.5 lbs with self closing feature, without bottom guide



- ▶ Set of fittings contains all the parts required for 1 folding sliding door with 2 wings
- ▶ Set of fittings can be used for standard folding door application without opening mechanism
- ▶ Set of fittings can be used in combination with Pull to move Silent
- ▶ Running component with spring assisted self closing feature
- ▶ Running component with fast installation function

Set comprises:

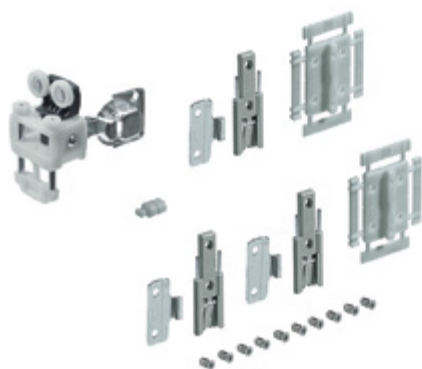
- ▶ 1 running component, 26.5 lbs max, with self closing feature
- ▶ 3 folding door hinges
- ▶ 2 positioning aids, centre hinges
- ▶ 1 door damper
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

- ▶ Please order profiles separately
- ▶ Cabinet body hinges with self closing feature must be used with this set of fittings. Recommendation: Sensys 8645i opening angle 110°

Order no. / Cabinet side		PU
left	right	
9 237 903	9 237 902	1 set

WingLine L set of fittings for max. door wing weight of 26.5 lbs without self closing feature, without bottom guide



- ▶ Set of fittings contains all the parts required for 1 folding sliding door with 2 wings
- ▶ Set of fittings can only be used in combination with Pull to move and Push to move
- ▶ Running component without spring assisted self closing feature
- ▶ Running component with fast installation function

Set comprises:

- ▶ 1 running component, 26.5 lbs max, without self closing feature
- ▶ 3 folding door hinges
- ▶ 2 positioning aids, centre hinges
- ▶ 1 door damper
- ▶ Fixing screws

Advice:

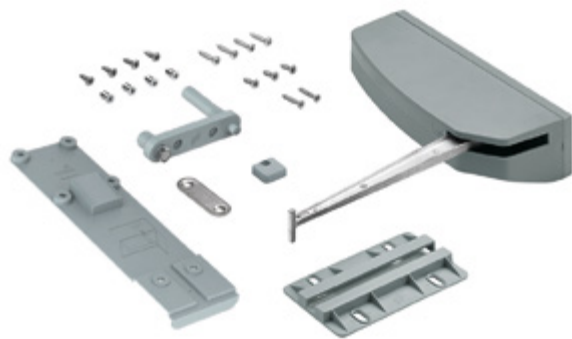
- ▶ Please order profiles separately
- ▶ Cabinet body hinges without self closing feature must be used with this set of fittings. Recommendation: Sensys 8675 opening angle 110°

Order no. / Cabinet side		PU
left	right	
9 237 901	9 237 900	1 set

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components

Push to move



- ▶ Mechanism for automatic, soft opening of a door set by pressing on the handleless front
- ▶ Set contains all the parts required for opening a folding sliding door with 2 wings

Set comprises:

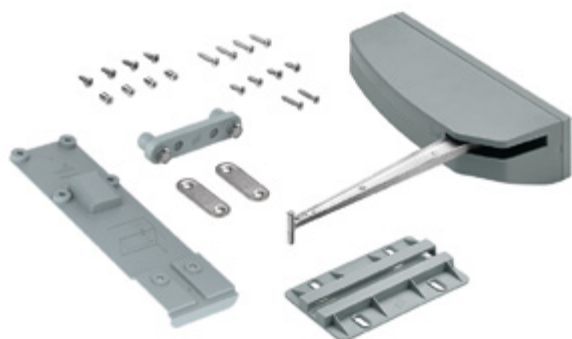
- ▶ 1 Push to move unit
- ▶ 1 support unit with 1 Push to open Pin and 1 magnet
- ▶ 1 magnetic counterplate
- ▶ 1 activator
- ▶ 1 door rail
- ▶ 1 positioning aid
- ▶ Fixing screws

Advice:

- ▶ Please order profiles and fittings separately
- ▶ Cabinet body hinges without self closing feature must be used in combination with Push to move. Recommendation: Sensys 8675 opening angle 110°

Version	Order no. / Cabinet side		PU
	left	right	
light	9 238 102	9 238 113	1 set
medium	9 238 051	9 238 101	1 set
heavy	9 238 052	9 238 053	1 set

Pull to move



- ▶ Mechanism for automatic, soft opening of a door set with minimal pull on the handle
- ▶ Set contains all the parts required for opening a folding sliding door with 2 wings

Set comprises:

- ▶ 1 Pull to move unit
- ▶ 1 support unit with 2 magnets
- ▶ 2 magnetic counterplates
- ▶ 1 door rail
- ▶ 1 positioning aid
- ▶ Fixing screws

Advice:

- ▶ Please order profiles and fittings separately
- ▶ Cabinet body hinges without self closing feature must be used in combination with Pull to move. Recommendation: Sensys 8675 opening angle 110°

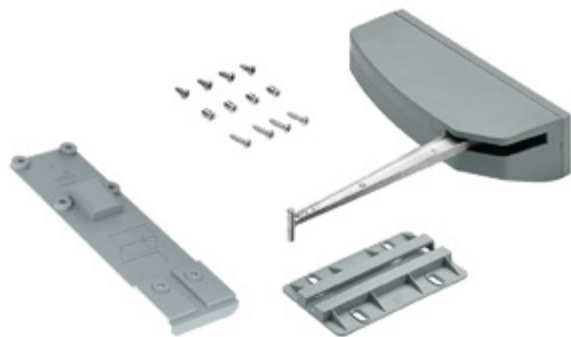
Version	Order no. / Cabinet side		PU
	left	right	
light	9 238 117	9 238 118	1 set
medium	9 238 115	9 238 116	1 set
heavy	9 238 125	9 238 114	1 set

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components



Pull to move Silent



- ▶ Mechanism for automatic, soft opening of a door set with a light pull on the handle
- ▶ Silent and soft closing of the door set with Sensys cabinet body hinge
- ▶ Set contains all the parts required for opening a folding sliding door with 2 wings

Set comprises:

- ▶ 1 Pull to move Silent unit
- ▶ 1 door rail
- ▶ 1 positioning aid
- ▶ Fixing screws

Advice:

- ▶ Please order profiles and fittings separately
- ▶ Cabinet body hinges with self closing feature must be used in combination with Push to move Silent. Recommendation: Sensys 8645i opening angle 110°

Version	Order no. / Cabinet side		PU
	left	right	
light	9 238 120	9 238 119	1 set
medium	9 238 121	9 238 124	1 set
heavy	9 238 123	9 238 122	1 set

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components

Profile set



- ▶ Aluminium, anodised
- ▶ Screw mounting positions predrilled

Set comprises:

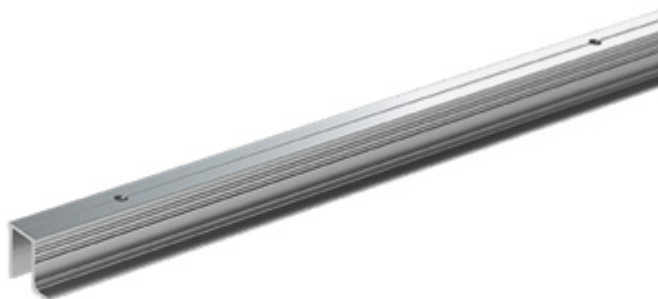
- ▶ 1 runner profile
- ▶ 1 guide profile
- ▶ 2 profile mounting clips
- ▶ Fixing screws

Advice:

- ▶ Please make a separate order for fittings, Push to move, Pull to move and Pull to move Silent

Length inch	Order no.	PU
47 1/4"	9 239 311	1 set
94 1/2"	9 239 310	1 set

Runner profile



- ▶ Aluminium
- ▶ For screwing on
- ▶ Screw on positions predrilled

Advice:

Customized lengths on request

Length inch	Finish	Order no.	PU
47 1/4"	Anodized	9 237 916	1/100 ea.
94 1/2"	Anodized	9 237 917	1/100 ea.
47 1/4"	bright	9 237 991	1/100 ea.
94 1/2"	bright	9 237 992	1/100 ea.
individual	individual	LA 02070	100 ea.

Guide profile



- ▶ Aluminium
- ▶ For screwing on
- ▶ Screw on positions predrilled

Advice:

Customized lengths on request

Length inch	Finish	Order no.	PU
47 1/4"	Anodized	9 237 989	1/100 ea.
94 1/2"	Anodized	9 237 990	1/100 ea.
47 1/4"	bright	9 237 987	1/100 ea.
94 1/2"	bright	9 237 988	1/100 ea.
individual	individual	LA 12130	100 ea.

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components



Cover cap for running component for door wings weighing up to 55 lbs



- ▶ For covering running components for door wings weighing up to 55 lbs
- ▶ Plastic, grey

Order no.	PU
9 227 326	500 ea.

Door damper



- ▶ Prevents running and guide component from colliding with the side panel
- ▶ One door damper must be fitted for each running and guide component
- ▶ Can be shortened as required to suit door overlay
- ▶ Plastic, grey

Order no.	PU
9 236 926	500 ea.

Stay open element



- ▶ Holds door set in opened position
- ▶ Prevents the door set from springing back
- ▶ One stay open element must be used for each door set
- ▶ Not needed when using Push to move, Pull to move or Pull to move Silent
- ▶ Plastic, grey

Cabinet side	Order no.	PU
left	9 237 710	500 ea.
right	9 237 711	500 ea.

Centre hinge positioning aid



- ▶ For easily defining the right drilling position for the fast assembly centre hinge
- ▶ 2 mm, 3 mm, 4 mm and 7 mm centre reveal possible
- ▶ Plastic, grey

Order no.	PU
9 237 039	100 ea.

Folding door system

- ▶ WingLine L / attached to the side
- ▶ System components



Door protection clip



- ▶ Prevents a bowing door from colliding with the centre panel on closing
- ▶ Installed on the side panel in hole line 37 or 28
- ▶ Plastic, grey

Order no.	PU
9 236 460	500 ea.

Profile support



- ▶ Supports the runner profile at the end of the profile
- ▶ Use is recommended if the last screw on position cannot be used in the profile for design reasons
- ▶ Plastic, grey

Order no.	PU
9 236 461	500 ea.

Profile mounting clip



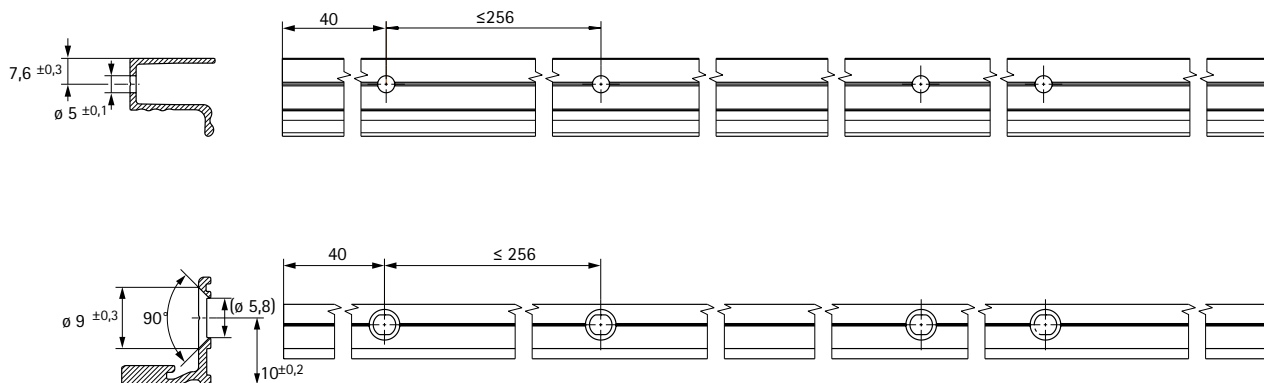
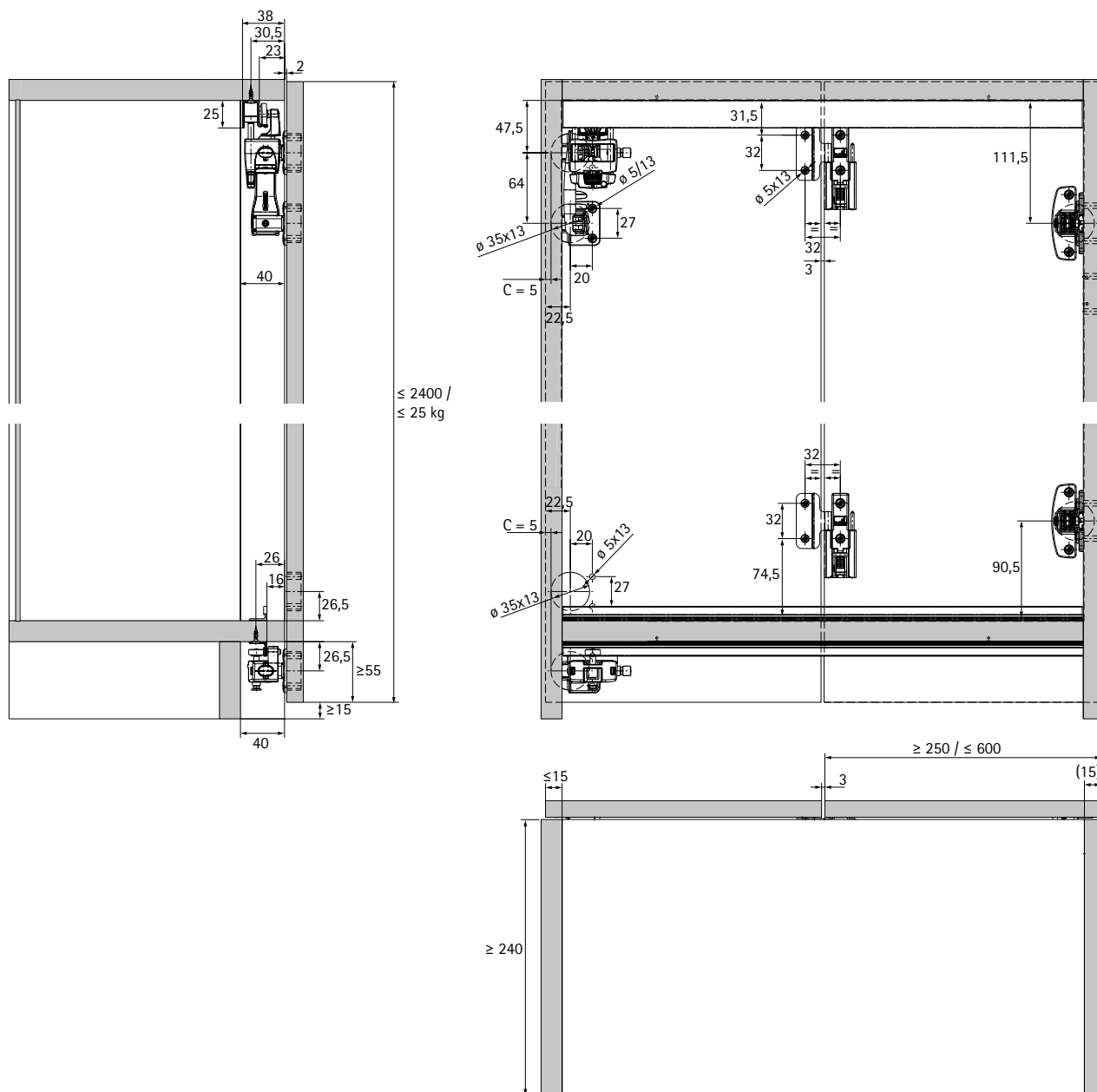
- ▶ Securely holds the profiles in the correct screw mounting position
- ▶ Installation clip can be used on the runner profile and guide profile (on and under the plinth)
- ▶ Plastic, grey

Order no.	PU
9 237 758	500 ea.

Folding door system

- ▶ WingLine L / attached to the side
- ▶ Planning dimensions

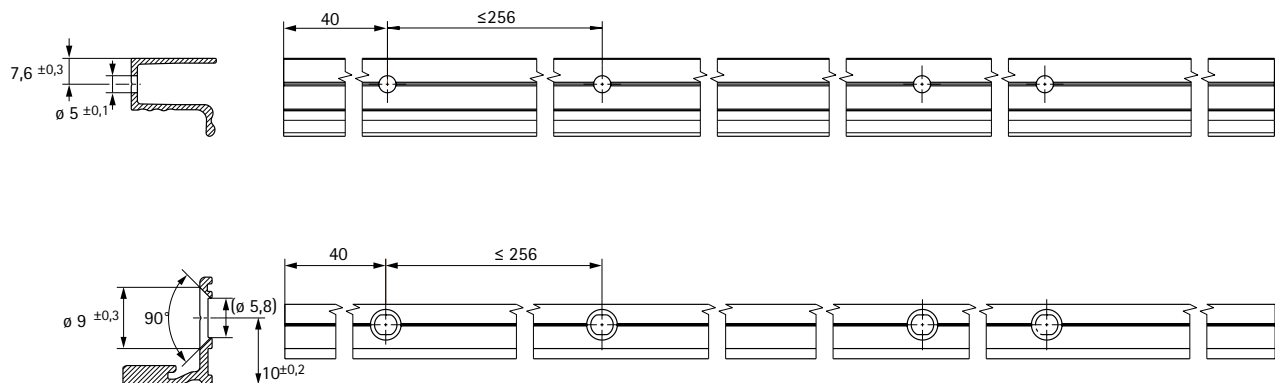
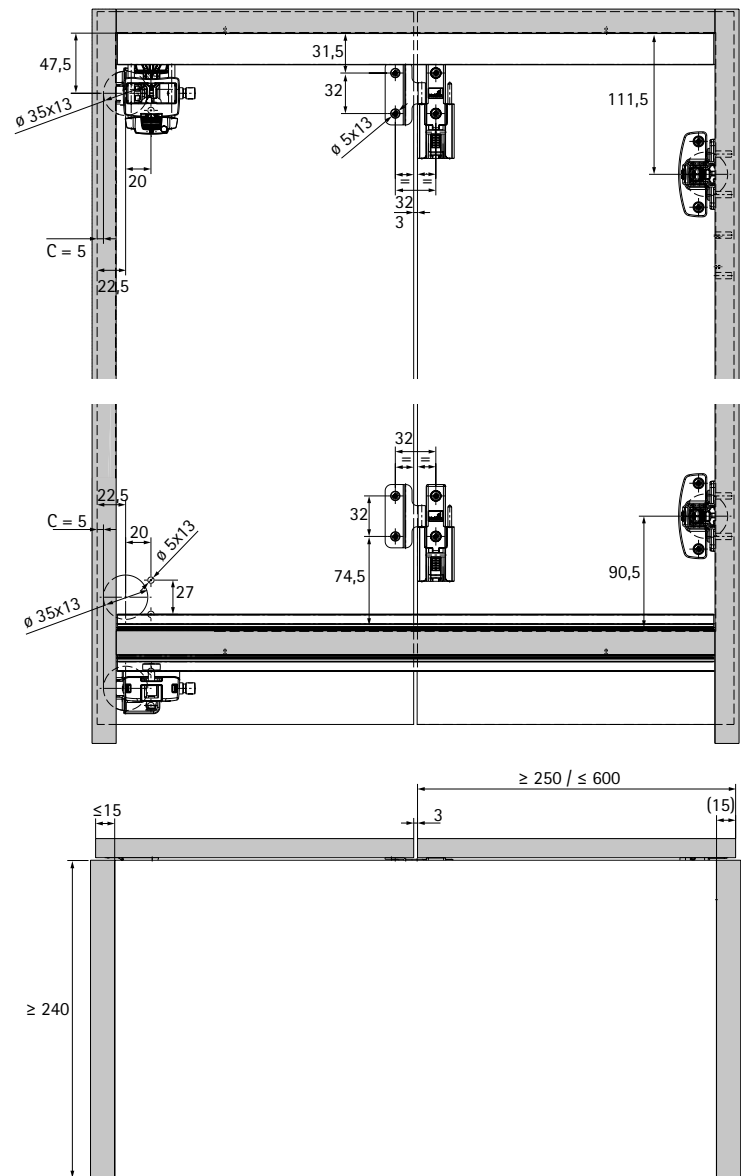
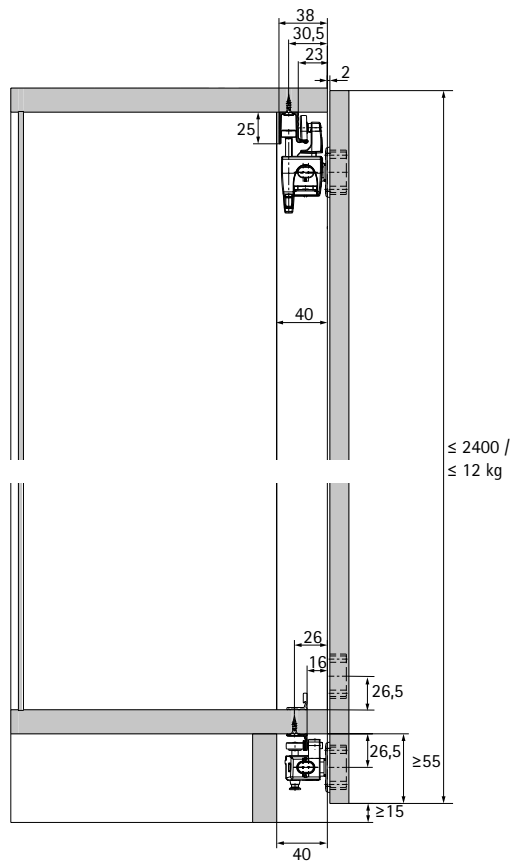
WingLine L max. door wing weight 55 lbs



Folding door system

- ▶ WingLine L / attached to the side
- ▶ Planning dimensions

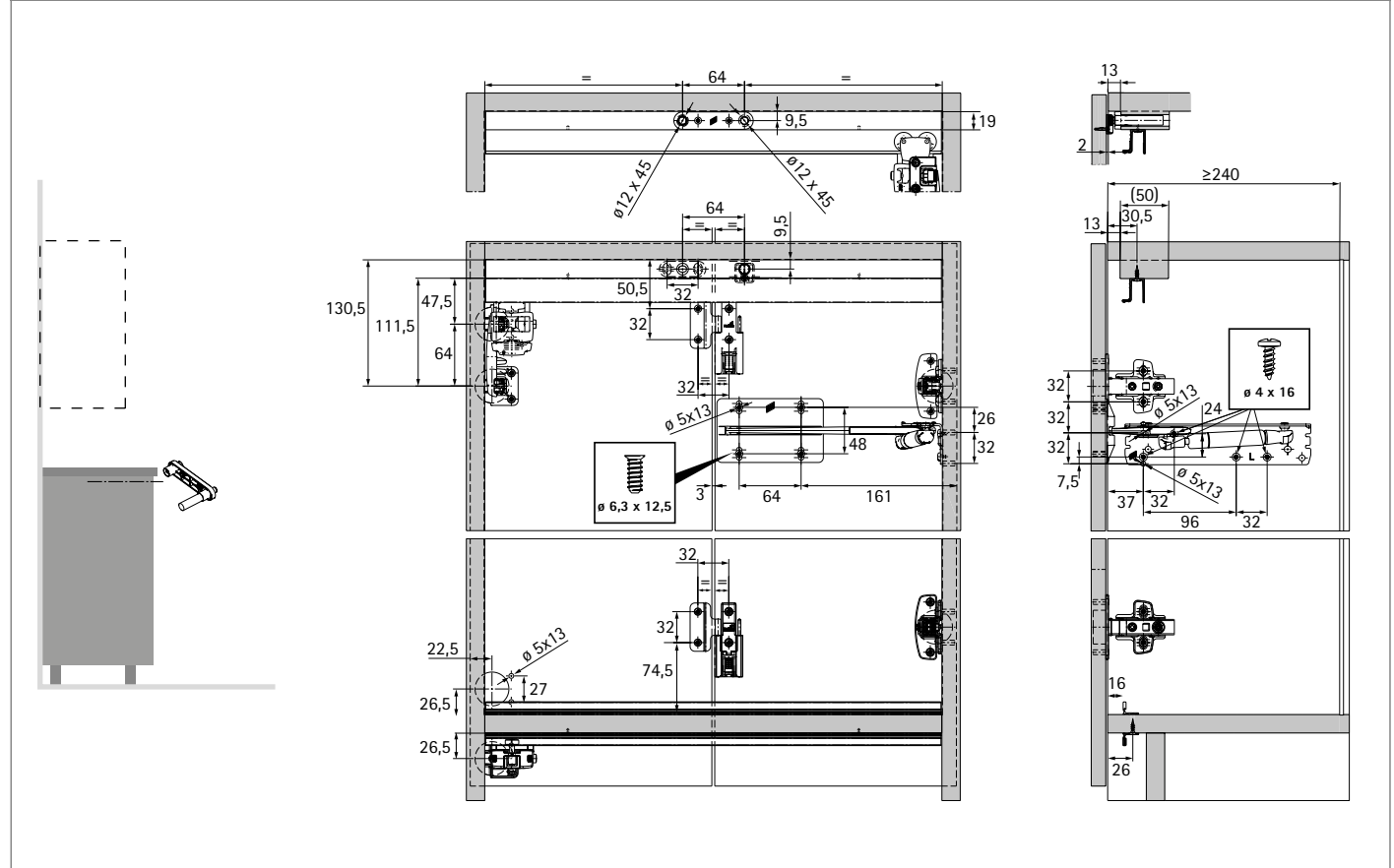
WingLine L max. door panel weight 26.5 lbs



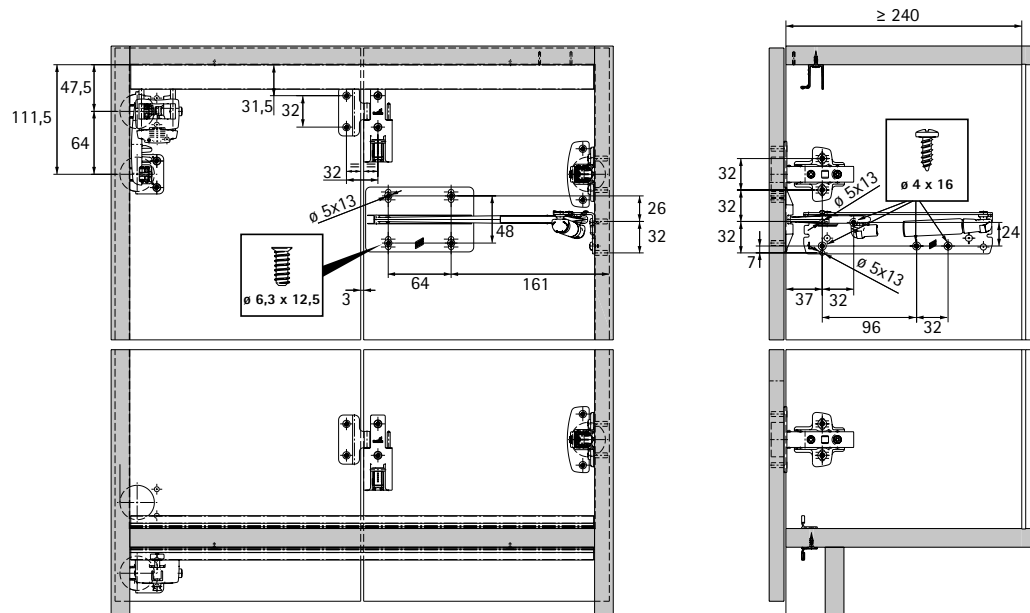
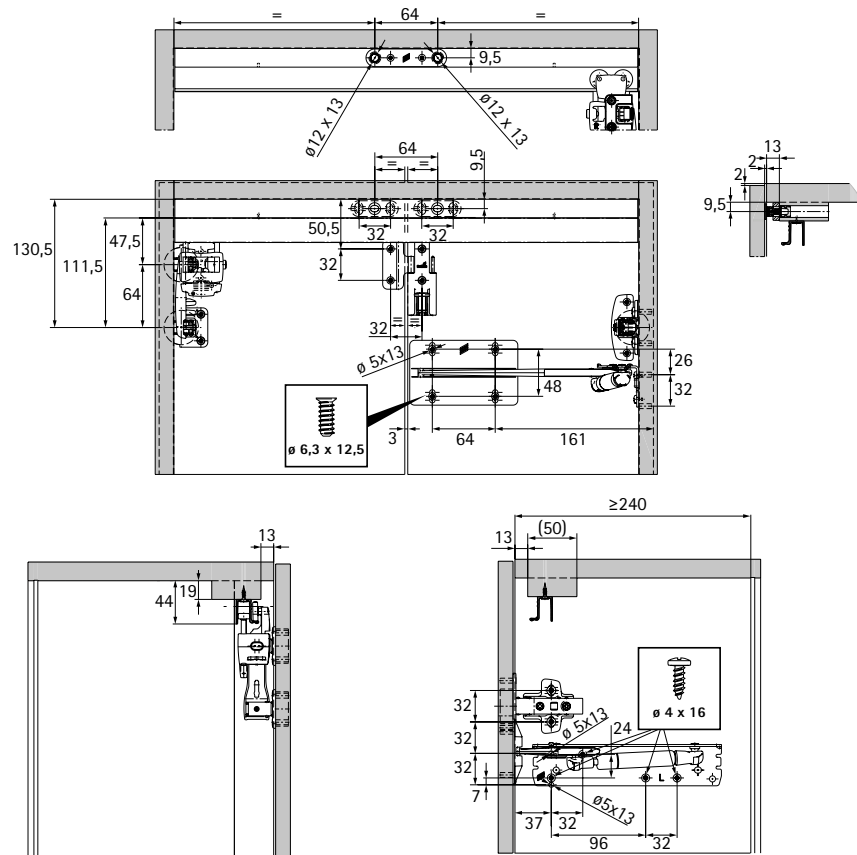
Folding door system

- WingLine L / attached to the side
- Planning dimensions

WingLine L max. door wing weight 55 lbs



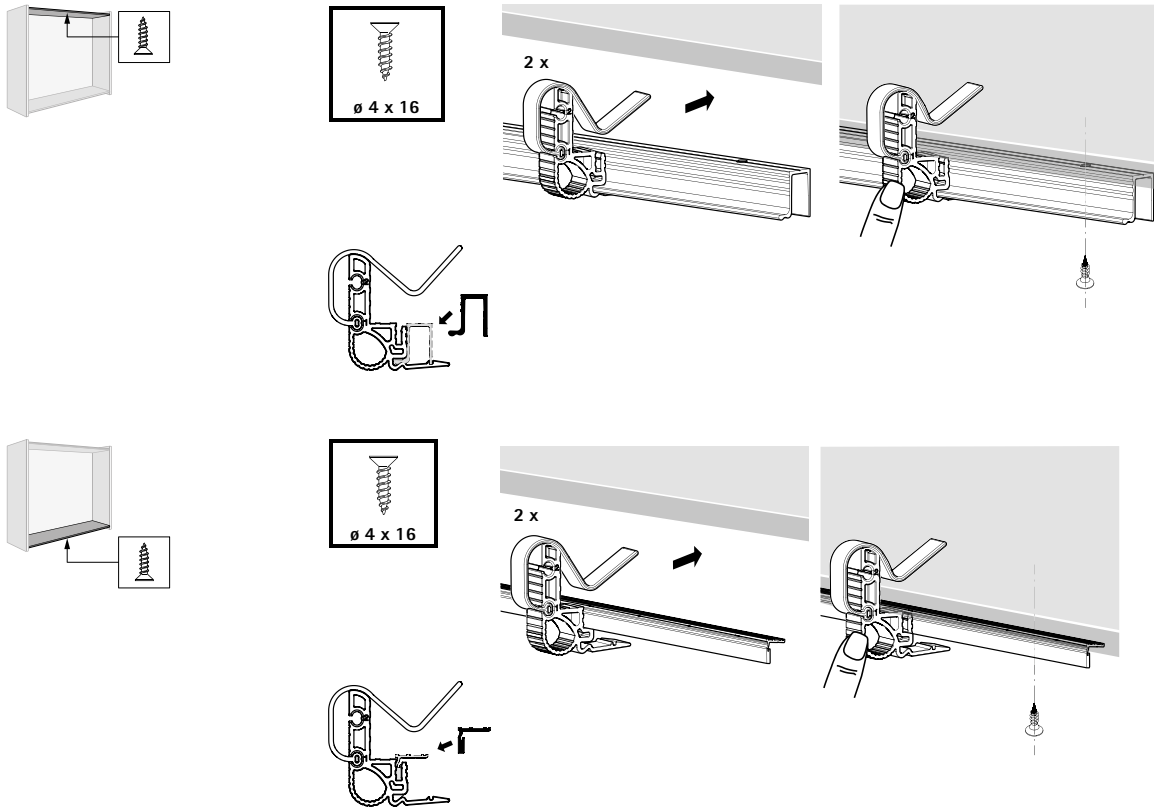
- ▶ WingLine L / attached to the side
- ▶ Planning dimensions



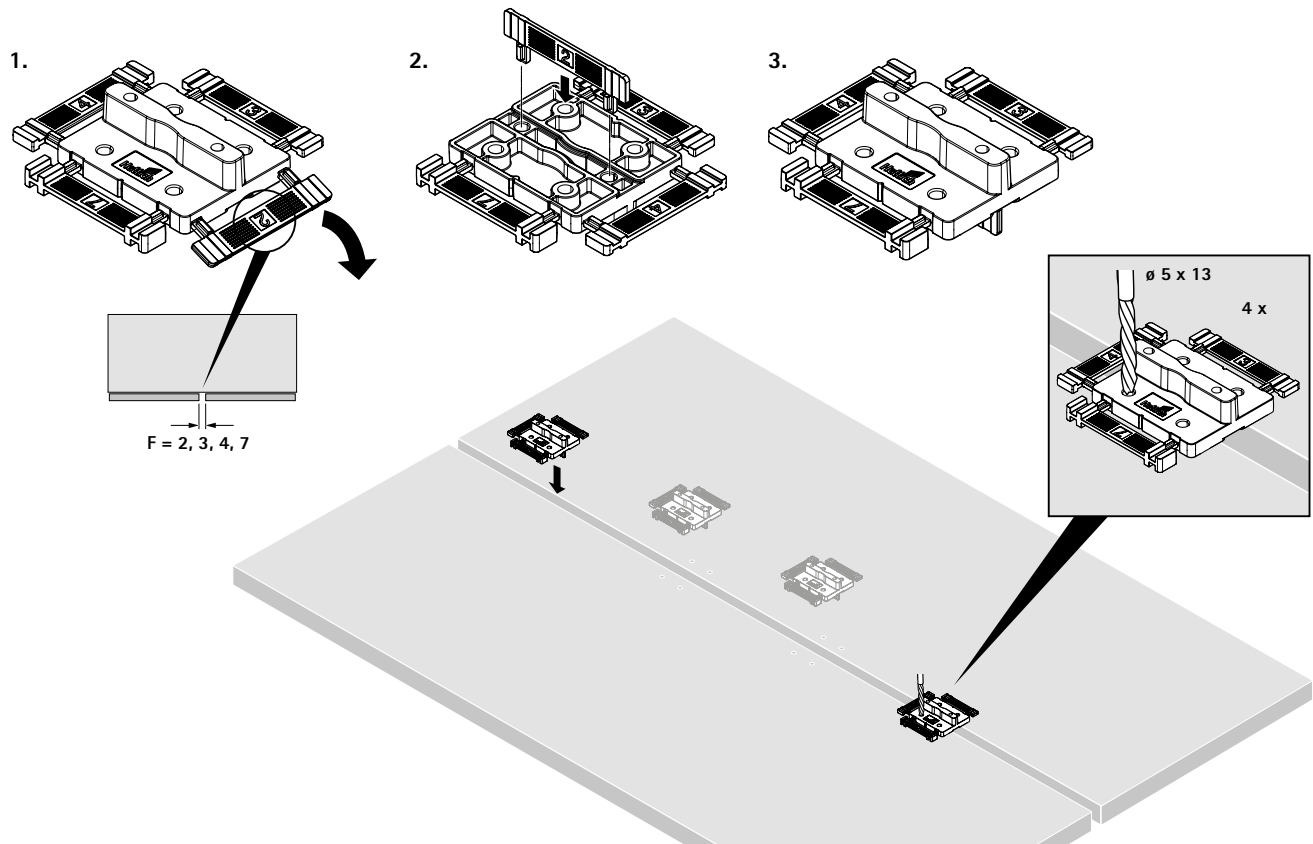
Folding door system

- WingLine L / attached to the side
- Installation

Installing runner and guide profiles



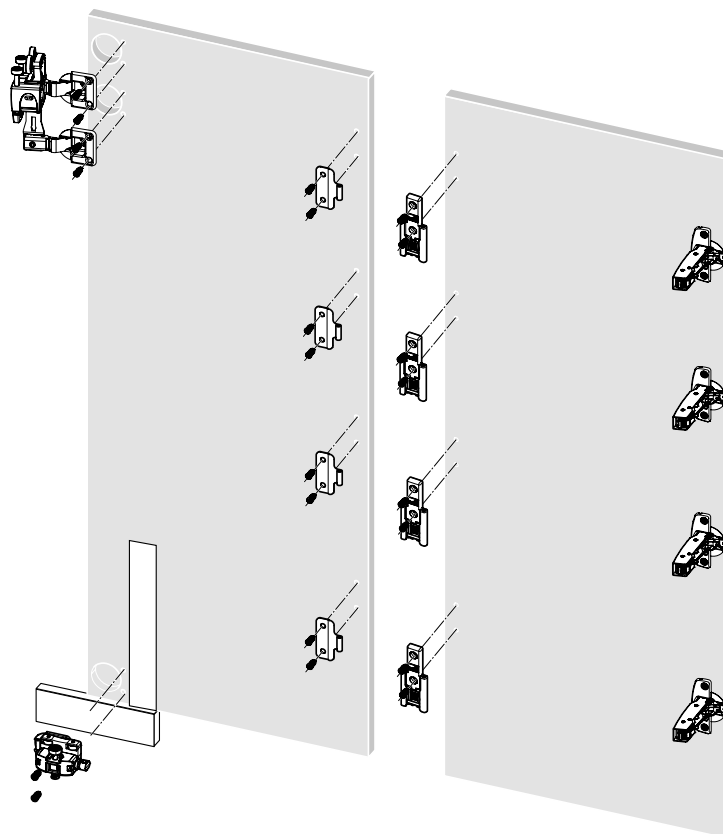
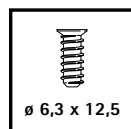
Positioning centre hinges



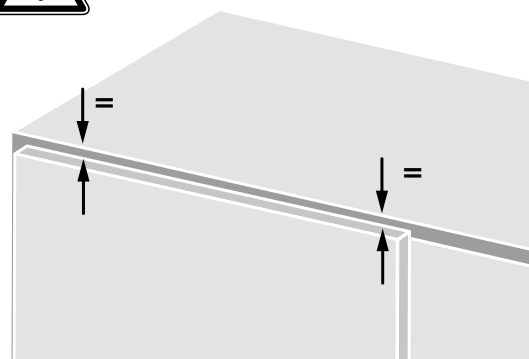
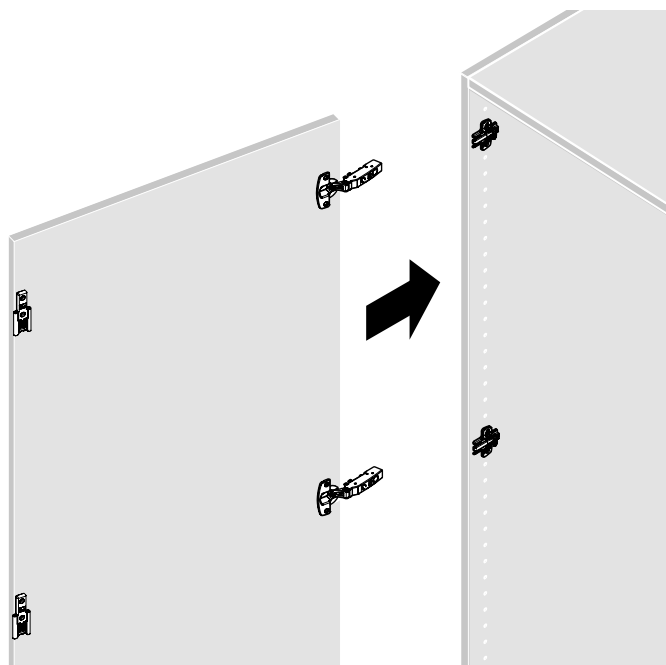
Folding door system

- ▶ WingLine L / attached to the side
- ▶ Installation

Installing fitting components



Installing first door wing

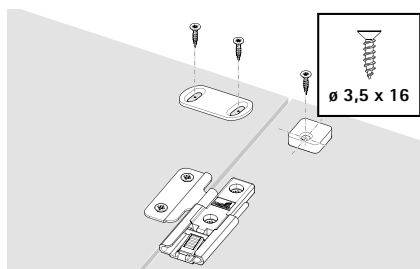
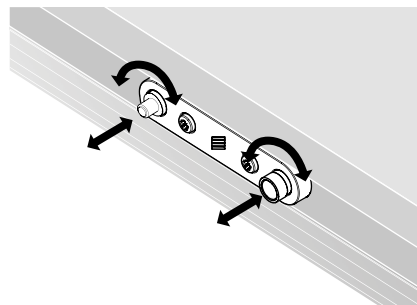
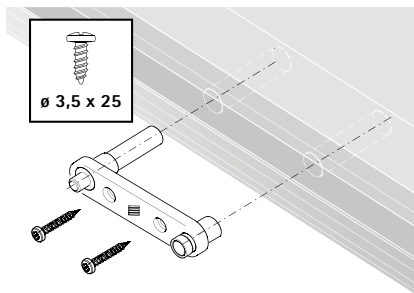
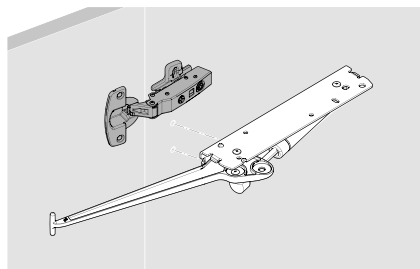


Folding door system

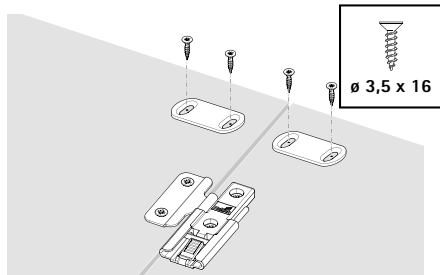
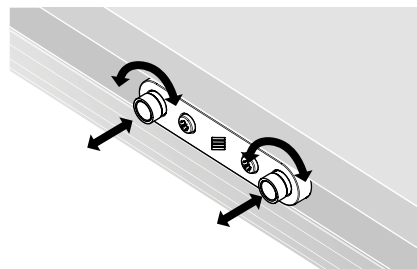
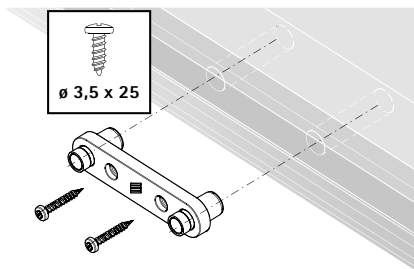
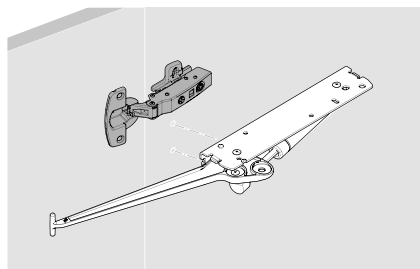
- ▶ WingLine L / attached to the side
- ▶ Installation

Installing Push to move / Pull to move / Pull to move Silent

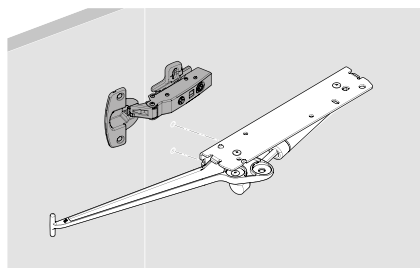
Push to move



Pull to move



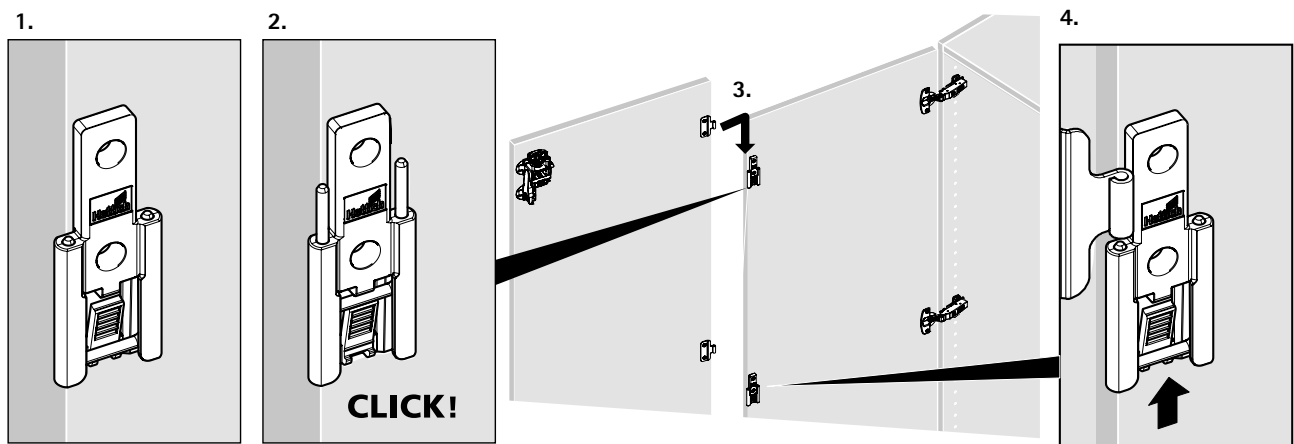
Pull to move Silent



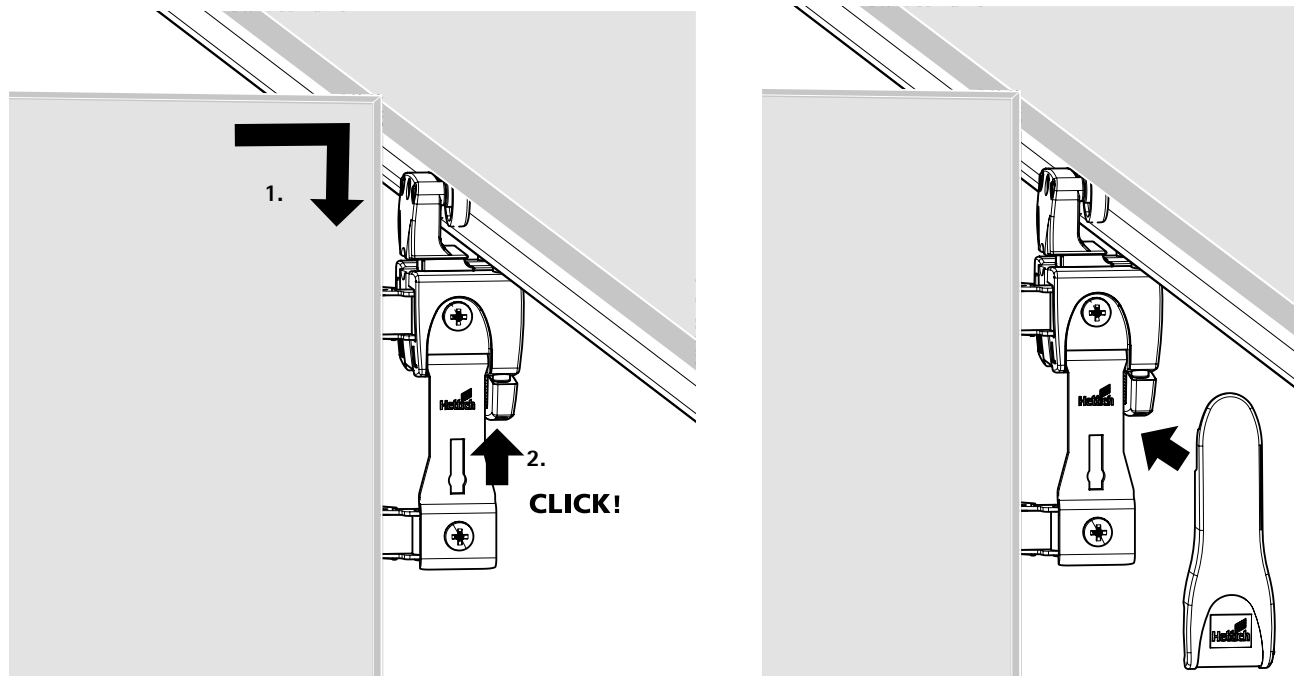
Folding door system

- ▶ WingLine L / attached to the side
- ▶ Installation

Toolless fast installation of the second door wing



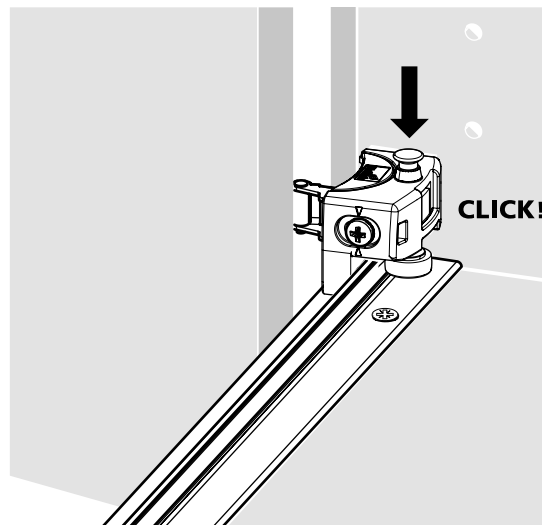
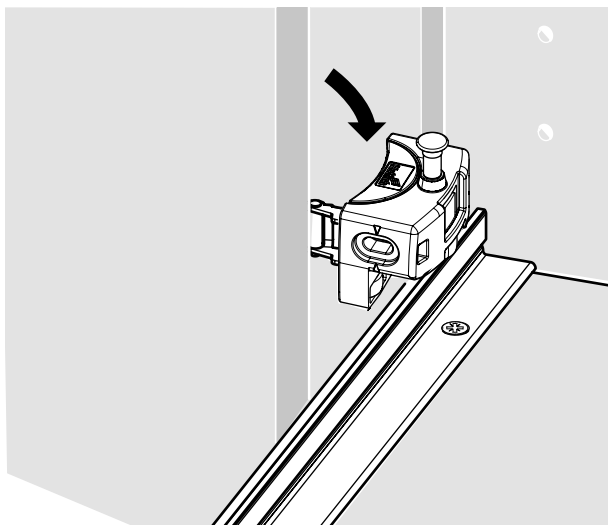
Tool-less running component fast assembly



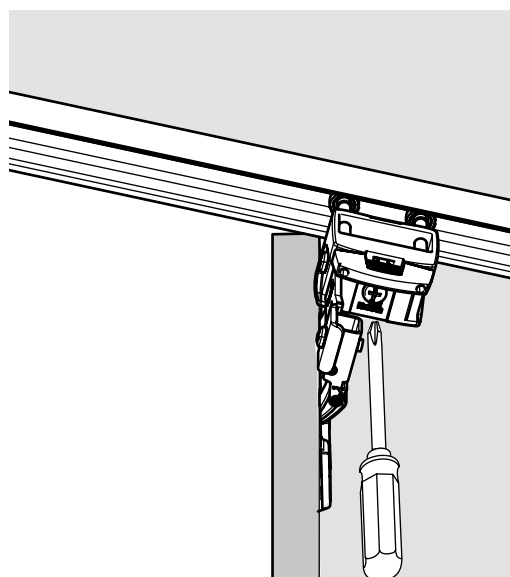
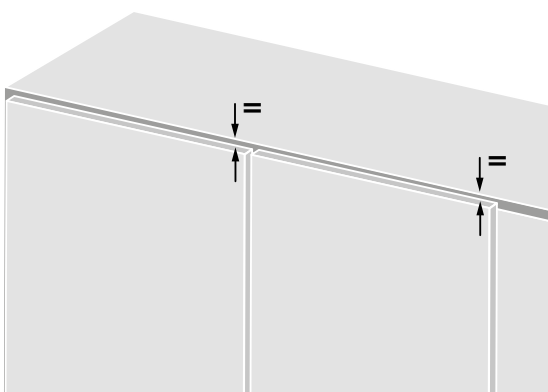
Folding door system

- ▶ WingLine L / attached to the side
- ▶ Installation

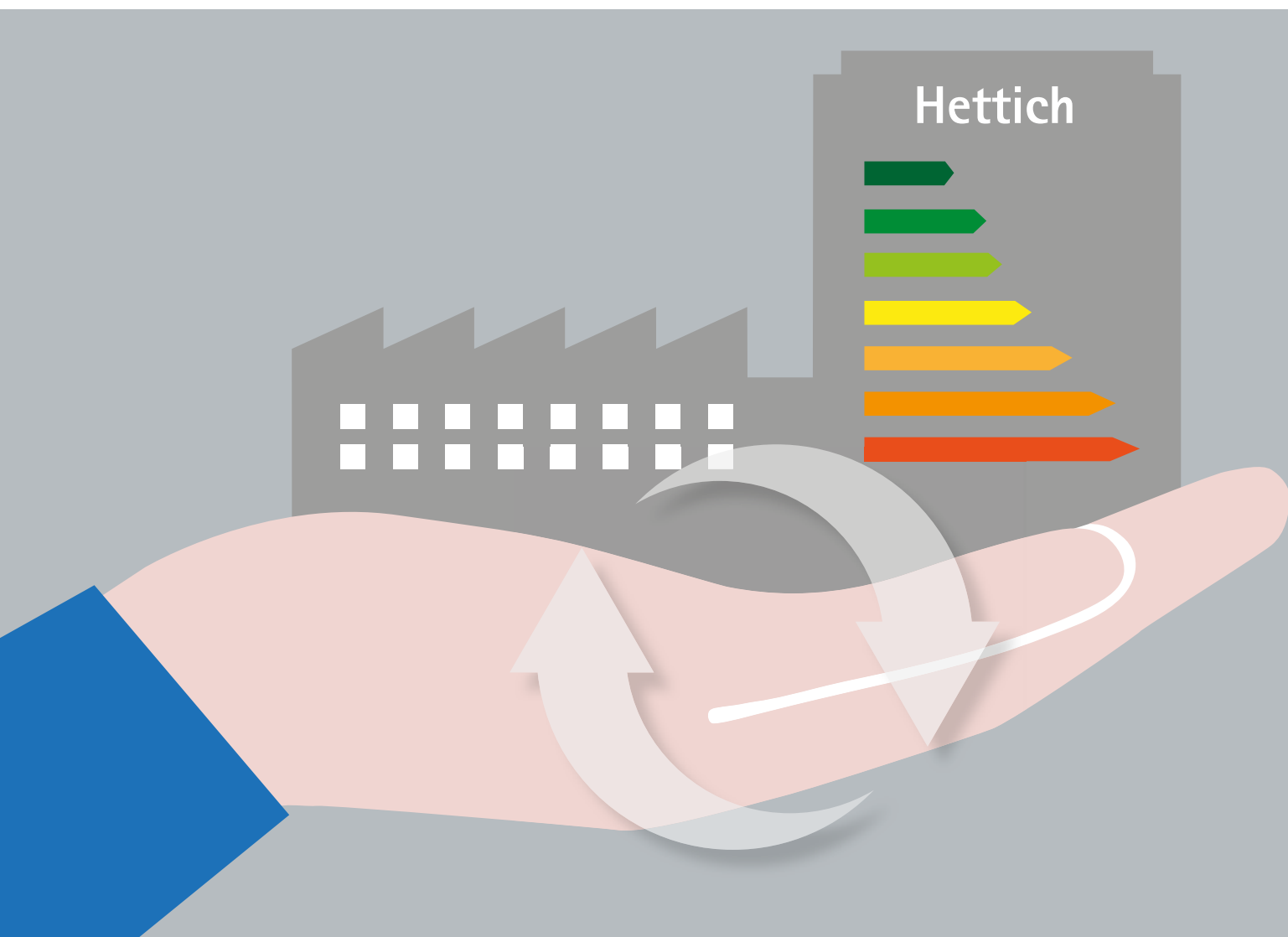
Tool-less fast assembly of guide components



Height adjustment at the running component



We are improving our environmental performance –
as proven by EMAS, the world's most stringent environmental management system.



Our corporate principles include taking responsibility for preserving the natural basis of life. This is where we regard statutory provisions as minimum requirements. Over and above meeting statutory requirements, it is imperative for all members of staff to act in a way that conserves energy and resources in their own particular work environment in order to overcome the global ecological challenges of the near future. In the same way, using energy and resources efficiently also plays a key part in maintaining our competitive edge.

The group wide Environmental Department was established back in 1992, with its sustainability principles of environmental protection and occupational health and safety having consistently set the framework for leading the company group forward in this direction since 1993. Introduced in 1996, the environmental management systems complying with the European EMAS Regulation (Eco Management and Audit Scheme), including ISO 14.001, are of central impor-

tance in this context. These implemented a targeted approach to identifying and realizing the potentials for using energy and resources in an efficient manner as well as to ensuring conformity with the law. The results are nothing short of impressive.

Environmentally friendly projects

Innovative projects are the mark of our approach to environmental management. For instance, the primary-energy requirement of our new production facilities is up to 75% below the specifications demanded in building legislation. The exemplary, consistent use of wood-based materials in constructing our commercial buildings puts us on the forefront of using resource-conserving, renewable building materials that take enormous quantities of climate-damaging CO₂ out of the atmosphere while they are growing.

Since 2015, we have been trying out three new vehicles, each employing different propulsion systems, to test the



practical suitability of electric mobility in a variety of usage situations. At our Indian production plant, heavy metals are absorbed from concentrated waste water using an innovative method that involves living algae. At our factory in China, a solar-powered system provides staff accommodation and the canteen with hot water.

Success stories

Between 1997 and 2015, for example, we have managed to reduce environmental pollution from manufacturing our drawer runners and drawer systems at the Kirchlingern-Bünde production facility as follows:

- ▶ Specific water consumption 45 %
- ▶ Specific power consumption 10 %
- ▶ Specific heat consumption 73 %
- ▶ Specific CO₂ emission 30 %

Numerous awards reflect our commitment to the environment. In 2009, the European Commission gave our zero-energy Hettich Forum building the Green Building Award at national level. In 2016, we won the sustainability prize from the East Westphalian Business Environment Foundation for an environment education project carried out over 20 years.

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Technik für Möbel

