



Folding door systems:
WingLine

Technik für Möbel


Hettich




Folding door system

► Range summary / technical comparison

	WingLine L	WingLine 220	WingLine 230
			
Page	4 – 5	30 – 31	40 – 41
Description	Side mounted folding door system with guide profile at top / bottom	Side mounted folding door system with guide profile at top / bottom with invisibly installed fittings / guides	Side mounted folding door system with guide profile at top for large-size doors
Number of door wings	2	2	2
Door wing weight	25 kg max.	25 kg max.	20 – 25 kg
Side mounting	Yes	Yes	Yes
Door material	Wood	Wood	Wood
Door wing width mm	600 mm max.	500 mm max.	600 mm max.
Door wing height mm	2400 mm max.	2400 mm max.	3000 mm max.
Push / Pull to move, Pull to move Silent	Yes	No	No

Folding door system

► Range summary / technical comparison

WingLine 77	WingLine 170	Wing 77
		
50 – 51	58 – 59	66 – 67
Side mounted folding door system with guide profile at top / bottom for heavy doors	Side mounted folding door system with runner bar at top	Folding door system without side mounting, with guide profile at top / bottom, for folding doors that move freely in front of the carcass
2	2	2 or 4
25 kg max.	depends on hinges	25 kg max. for 2 door wings, 20 kg max. for 4 door wings
Yes	Yes	No
Wood	Wood / wood, wood / aluminium	Wood
500 mm max.	300 mm max.	500 mm max. for 2 door wings, 400 mm max. for 4 door wings
2400 mm max.	2200 mm max.	2400 mm max.
No	No	No

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:

optimised running performance, soft opening and closing, tool-less installation as well as minimal door protrusion for efficiently organising the space inside. WingLine L competently and securely moves door wings weighing up to 25 kg and measuring up to 2,400 mm in height: a talented all rounder for the bedroom, kitchen and office.



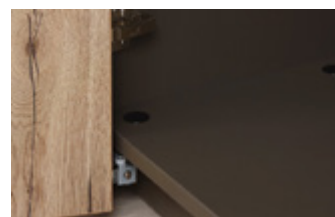
Panorama convenience: access to 6m² of cabinet content, leaving everything in perfect view.



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.



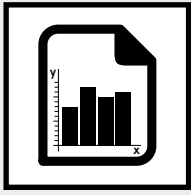
Impressive running performance: as smooth as never before and virtually silent.



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

Folding door system

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



Performance summary

6 – 7

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



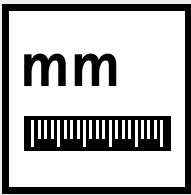
System summary

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System components

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Planning dimensions

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Installation

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Accessories

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Technical information

- ▶ Calculating door weights
- ▶ Quality criteria

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Folding door system

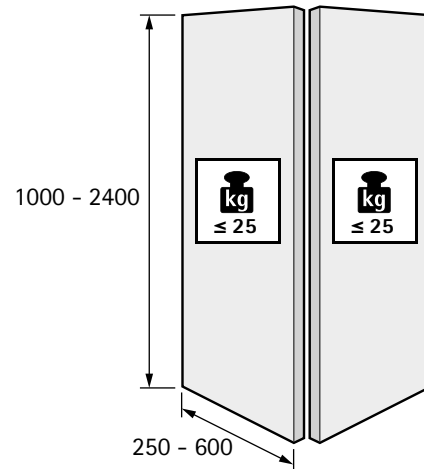


- ▶ WingLine L / attached to the side
- ▶ Performance summary

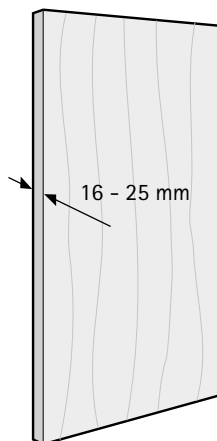
Technical details in brief

- ▶ 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 25 kg
- ▶ Door height up to 2400 mm
- ▶ Door wing width up to 600 mm
- ▶ Tested with 40000 cycles

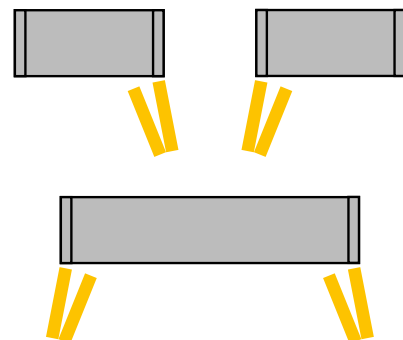
Door format and door weight



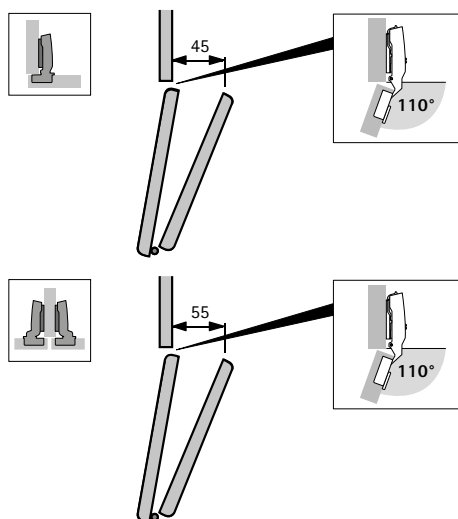
Door material



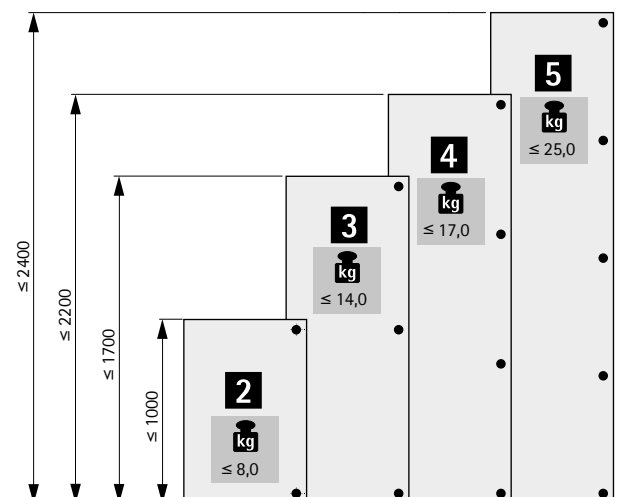
Number of door wings and door position



Door protrusion



Recommended number of carcass and folding door hinges

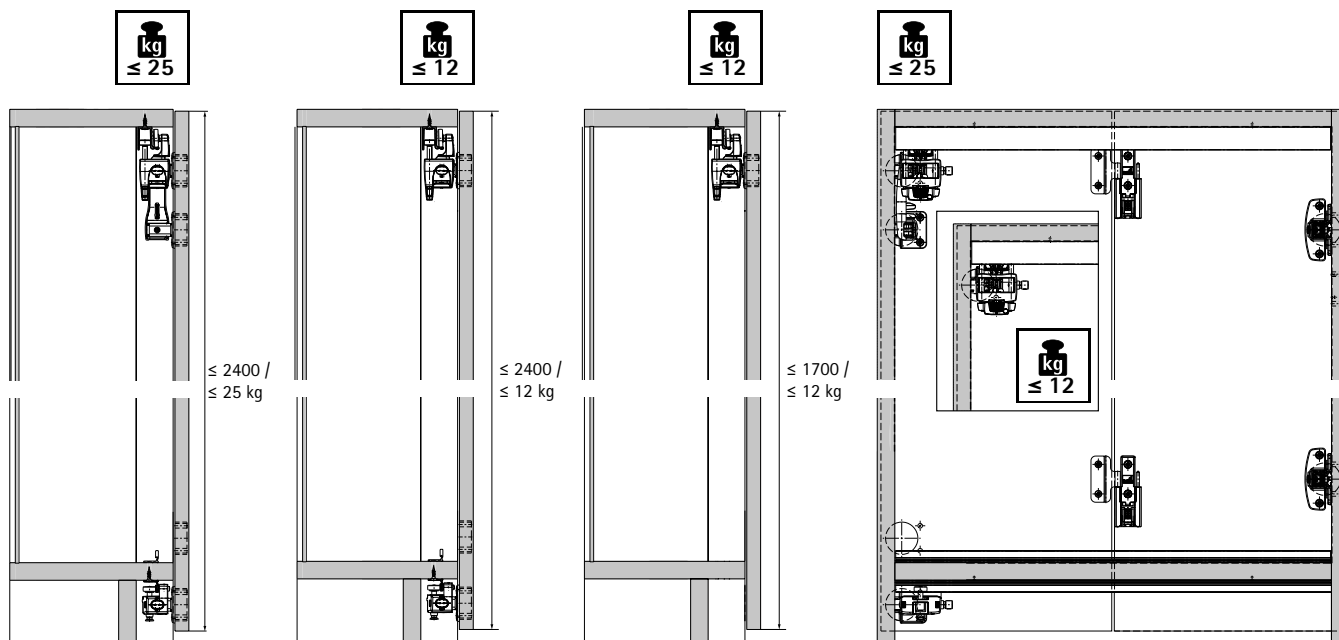


Folding door system

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

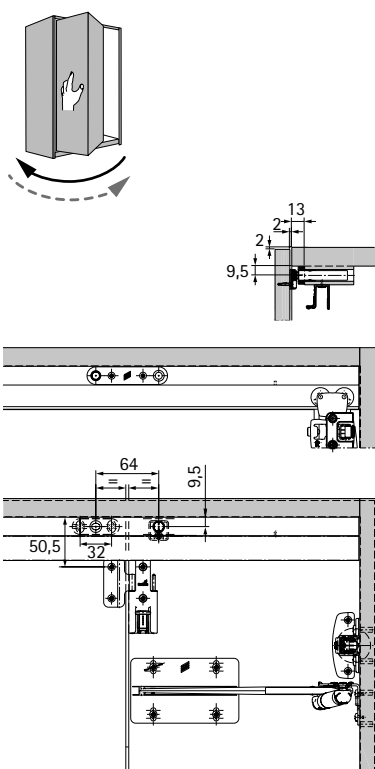


Operating principle / WingLine L

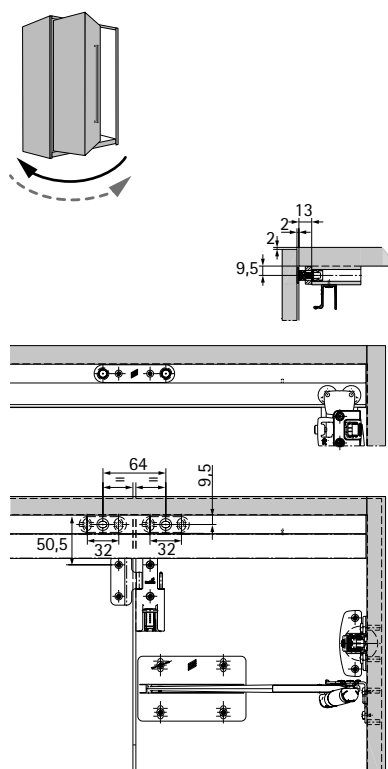


Operating principle / WingLine L with Push to move / Pull to move / Pull to move Silent

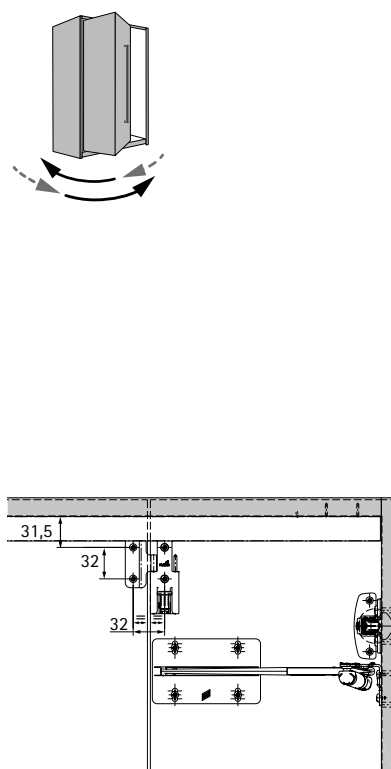
Push to move



Pull to move



Pull to move Silent



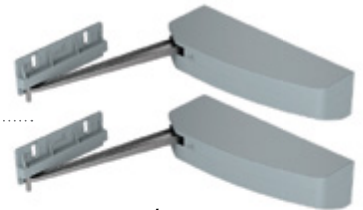
Folding door system

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

The new multifolder: 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 25 kg
- Running component for door panel weight up to 12 kg



Guide component

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



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



- Carcase hinges**
- Sensys 110 degrees or 95 degrees
 - With or without self closing feature



Intelligent installation accessories

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



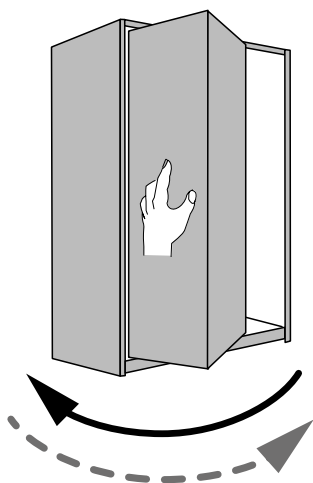
- Centre hinge**
- 2 part
 - Tool-less fast installation

Folding door system

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

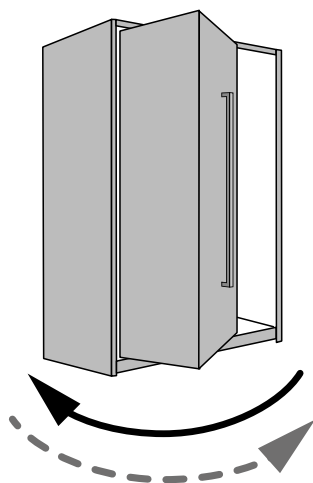
WingLine L with Push to move and Pull to move

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.



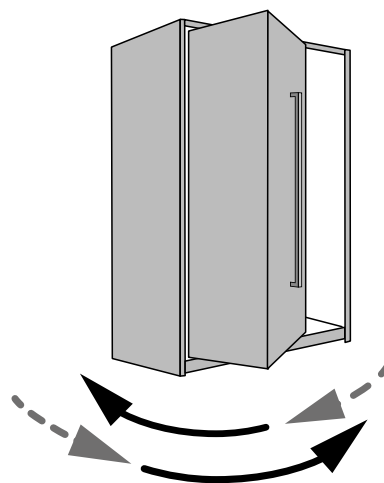
Push to move

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.

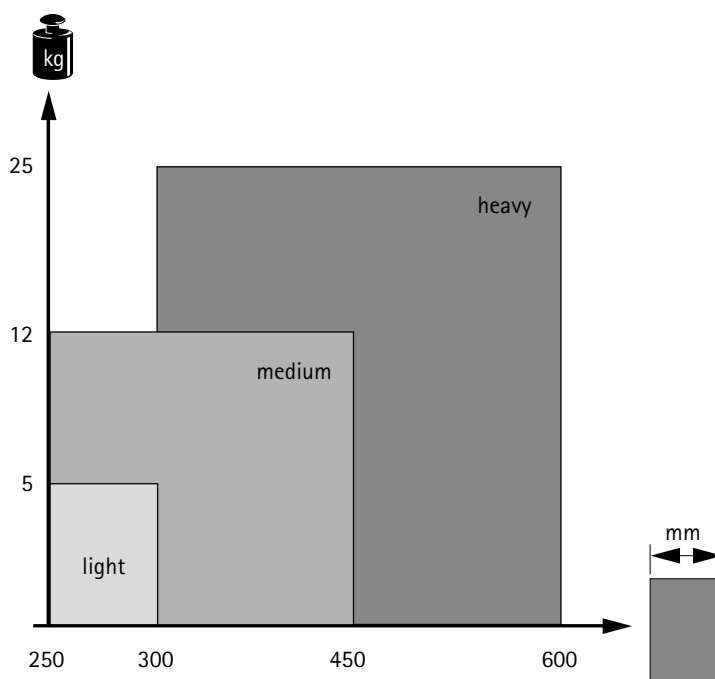


Pull to move Silent

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

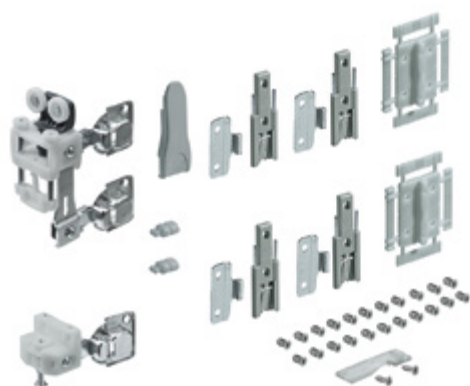
For Push to move and Pull to move to work perfectly in conjunction with every door size and weight, the modules are available in various capacity classes. Choose the right set for your particular application. A trial mounting is recommended!



Folding door system

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

WingLine L set of fittings for max. door wing weight of 25 kg 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:

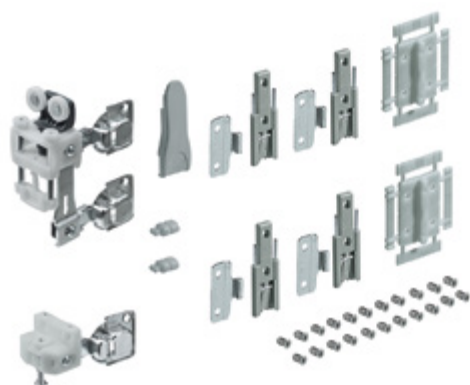
- ▶ 1 running component, 25 kg max, with self closing feature
- ▶ 1 guide component with self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids for centre hinges
- ▶ 1 running component cover
- ▶ 2 door dampers
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

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

Order no. / Hinge side of cabinet		PU
left	right	
9 237 852	9 237 890	1 set

WingLine L set of fittings for max. door wing weight of 25 kg 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, 25 kg max, without self closing feature
- ▶ 1 guide component without self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids for centre hinges
- ▶ 1 running component cover
- ▶ 2 door dampers
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

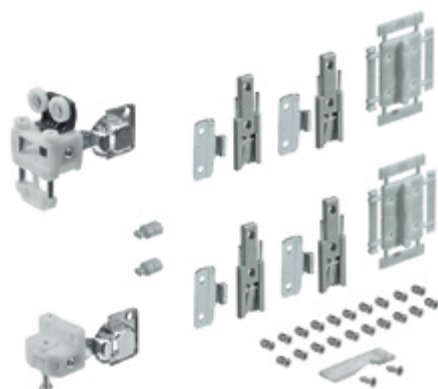
- ▶ Please order profiles separately
- ▶ Carcase hinges without self closing feature must be used with this set of fittings. Recommendation: Sensys 8675 opening angle 110°

Order no. / Hinge side of cabinet		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 12 kg 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:

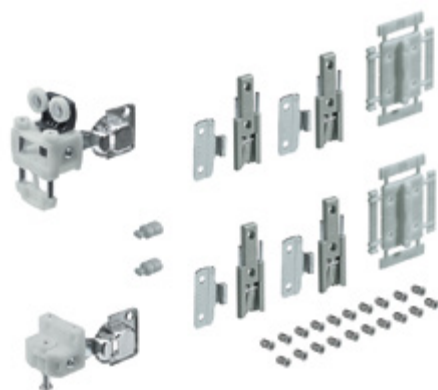
- ▶ 1 running component, 12 kg max, with self closing feature
- ▶ 1 guide component with self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids for centre hinges
- ▶ 2 door dampers
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

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

Order no. / Hinge side of cabinet		PU
left	right	
9 237 882	9 237 906	1 set

WingLine L set of fittings for max. door panel weight of 12 kg 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, 12 kg max, without self closing feature
- ▶ 1 guide component without self closing feature
- ▶ 4 folding door hinges
- ▶ 2 positioning aids for centre hinges
- ▶ 2 door dampers
- ▶ 1 stay open element
- ▶ Fixing screws

Advice:

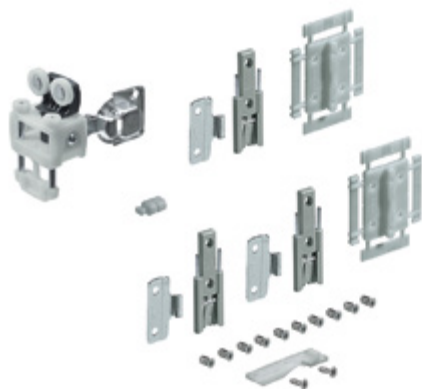
- ▶ Please order profiles separately
- ▶ Carcase hinges without self closing feature must be used with this set of fittings. Recommendation: Sensys 8675 opening angle 110°

Order no. / Hinge side of cabinet		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 12 kg 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:

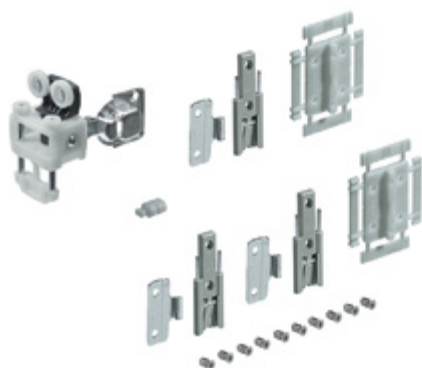
- ▶ 1 running component, 12 kg max, with self closing feature
- ▶ 3 folding door hinges
- ▶ 2 positioning aids for centre hinges
- ▶ 1 door damper
- ▶ 1 stay open element (available from November 2017)
- ▶ Fixing screws

Advice:

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

Order no. / Hinge side of cabinet		PU
left	right	
9 237 903	9 237 902	1 set

WingLine L set of fittings for max. door wing weight of 12 kg 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, 12 kg max, without self closing feature
- ▶ 3 folding door hinges
- ▶ 2 positioning aids for centre hinges
- ▶ 1 door damper
- ▶ Fixing screws

Advice:

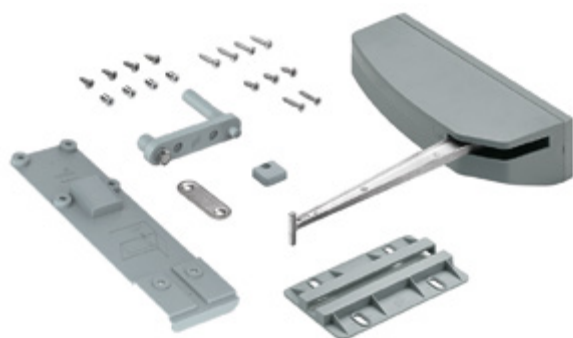
- ▶ Please order profiles separately
- ▶ Carcase hinges without self closing feature must be used with this set of fittings. Recommendation: Sensys 8675 opening angle 110°

Order no. / Hinge side of cabinet		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:

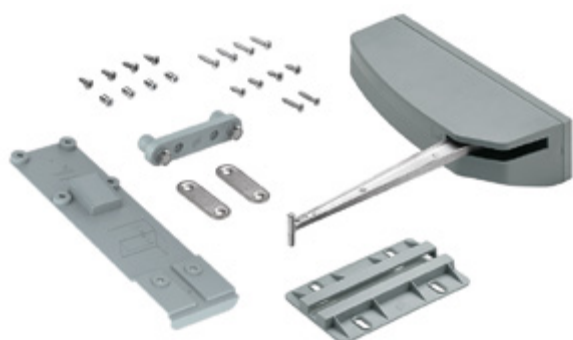
- ▶ 1 Push to move unit
- ▶ 1 support unit with 1 Push to open Pin and 1 magnet
- ▶ 1 magnetic counterplate
- ▶ 1 activator
- ▶ 1 door rail
- ▶ 1 positioning aid
- ▶ Fixing screws

Advice:

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

Version	Order no. / Hinge side of cabinet		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

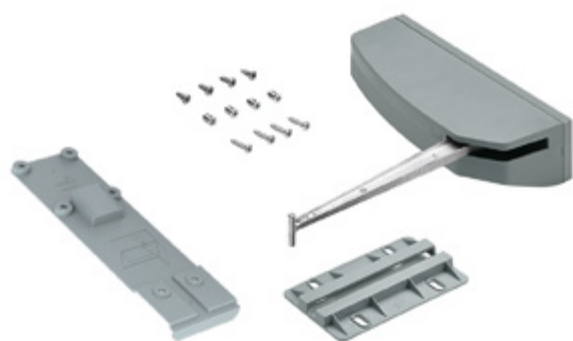
Advice:

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

Version	Order no. / Hinge side of cabinet		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

- ▶ 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 carcase 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
- ▶ Carcase hinges with self closing feature must be used in combination with Push to move Silent. Recommendation: Sensys 8645, opening angle 110°

Version	Order no. / Hinge side of cabinet		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

Running component for door wing weighing up to 25 kg with self closing feature



- ▶ Can be used in standard folding door application without opening mechanism
- ▶ Can be used in combination with Pull to move Silent
- ▶ Tool-less fast installation
- ▶ With 2 concealed hinges
- ▶ +/- 3 mm height adjustment
- ▶ Steel, nickel plated / plastic, grey

Hinge side of cabinet	Order no.	PU
left	9 237 492	50 ea.
right	9 237 493	50 ea.

Running component for door wing weighing up to 25 kg without self closing feature



- ▶ Can only be used in combination with Pull to move and Push to move
- ▶ Tool-less fast installation
- ▶ With 2 concealed hinges
- ▶ +/- 3 mm height adjustment
- ▶ Steel, nickel plated / plastic, grey

Hinge side of cabinet	Order no.	PU
left	9 237 495	50 ea.
right	9 237 494	50 ea.

Running component for door wing weighing up to 12 kg with self closing feature



- ▶ Can be used in standard folding door application without opening mechanism
- ▶ Can be used in combination with Pull to move Silent
- ▶ Tool-less fast installation
- ▶ With 1 concealed hinge
- ▶ +/- 3 mm height adjustment
- ▶ Steel, nickel plated / plastic, grey

Hinge side of cabinet	Order no.	PU
left	9 237 488	50 ea.
right	9 237 484	50 ea.

Running component for door wing weighing up to 12 kg without self closing feature



- ▶ Can only be used in combination with Pull to move and Push to move
- ▶ Tool-less fast installation
- ▶ With 1 concealed hinge
- ▶ +/- 3 mm height adjustment
- ▶ Steel, nickel plated / plastic, grey

Hinge side of cabinet	Order no.	PU
left	9 237 479	50 ea.
right	9 237 480	50 ea.

Folding door system

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

Guide component with self closing feature



- ▶ Can be used in standard folding door application without opening mechanism
- ▶ Guide component with 3 runner rollers and 1 concealed hinge
- ▶ Can be used in combination with Pull to move Silent
- ▶ Tool-less fast installation
- ▶ Installation on or under the plinth
- ▶ Steel, nickel plated / plastic, grey

Mounting option	Order no. / Hinge side of cabinet		PU
	left	right	
Installation on plinth	9237431	9237432	100 ea.
Installation under plinth	9237432	9237431	100 ea.

Guide component without self closing feature



- ▶ Can only be used in combination with Pull to move and Push to move
- ▶ Guide component with 3 runner rollers and 1 concealed hinge
- ▶ Tool-less fast installation
- ▶ Installation on or under the plinth
- ▶ Steel, nickel plated / plastic, grey

Mounting option	Order no. / Hinge side of cabinet		PU
	left	right	
Installation on plinth	9237433	9237434	100 ea.
Installation under plinth	9237434	9237433	100 ea.

Centre hinge, fast installation



- ▶ Centre hinge, comprising 2 components
- ▶ Tool-less door panel installation
- ▶ For easy screw mounting on door panel
- ▶ Plastic, grey (1), galvanised steel (2)

Version	Order no.	PU
Hinge component 1	9 229 920	200 ea.
Hinge component 2	9 236 605	400 ea.

Centre hinge with adjustable offset pivot



- ▶ Centre hinge for folding doors
- ▶ For door thicknesses from 15 mm
- ▶ Same drilling pattern for door and side element, both elements are mounted separately
- ▶ The reveal can be infinitely adjusted from minimum reveal to + 4 mm, application is always flush
- ▶ Gradual adjustment of the pivot offset with 0 mm, 3 mm and 6 mm
- ▶ Zinc die-cast nickel plated

Mounting option	Order no.	PU
For pressing in	1 001 955	100 ea.

Folding door system

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

Profile set



- ▶ Aluminium, anodized
- ▶ Screw mounting positions predrilled

Set comprises:

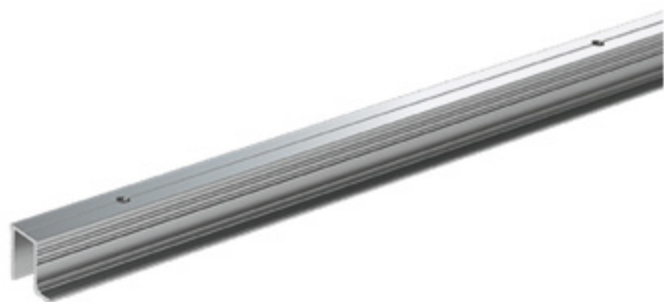
- ▶ 1 runner profile
- ▶ 1 guide profile
- ▶ 2 profile mounting clips
- ▶ Fixing screws

Advice:

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

Length mm	Order no.	PU
1200	9 239 311	1 set
2400	9 239 310	1 set

Runner profile



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

Advice:

customised lengths on request

Length mm	Finish	Order no.	PU
1200	Anodized	9 237 916	100 ea.
2400	Anodized	9 237 917	100 ea.
1200	bright	9 237 991	100 ea.
2400	bright	9 237 992	100 ea.
individual	individual	LA 02070	100 ea.

Guide profile



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

Advice:

Customised lengths on request

Length mm	Finish	Order no.	PU
1200	Anodized	9 237 989	100 ea.
2400	Anodized	9 237 990	100 ea.
1200	bright	9 237 987	100 ea.
2400	bright	9 237 988	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 25 kg



- ▶ For covering running components for door wings weighing up to 25 kg
- ▶ 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
- ▶ Available from November 2017

Hinge side of cabinet	Order no.	PU
left	9 237 710	500 ea.
right	9 237 711	500 ea.

Positioning aid centre hinge



- ▶ 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.

- ▶ 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.

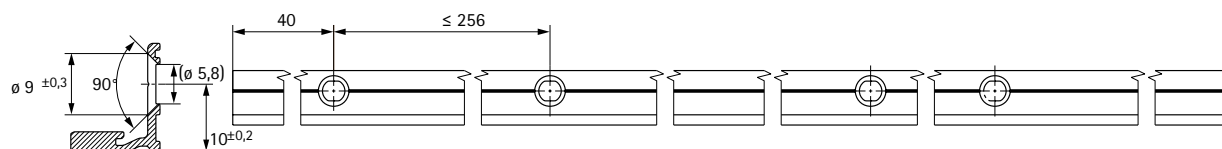
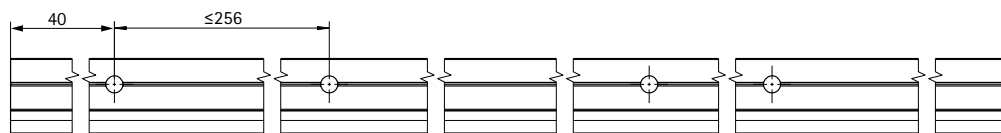
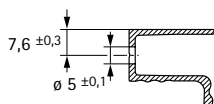
Profile mounting clip



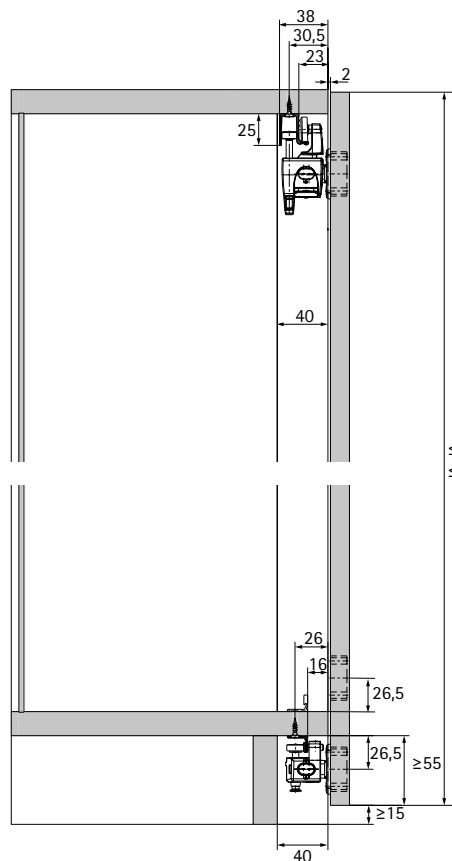
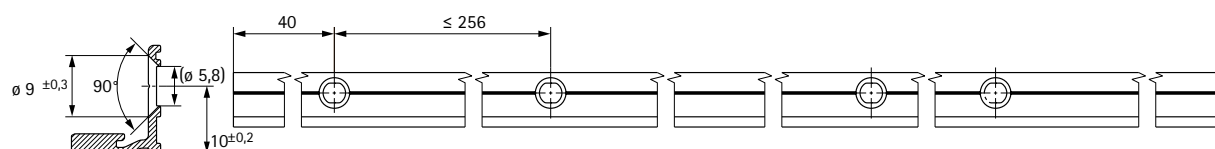
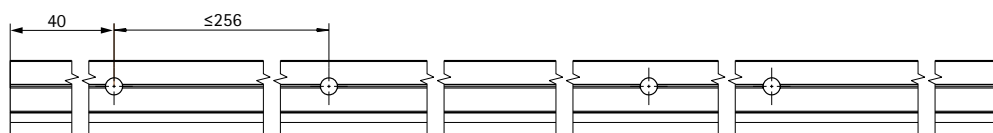
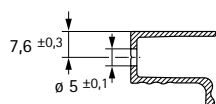
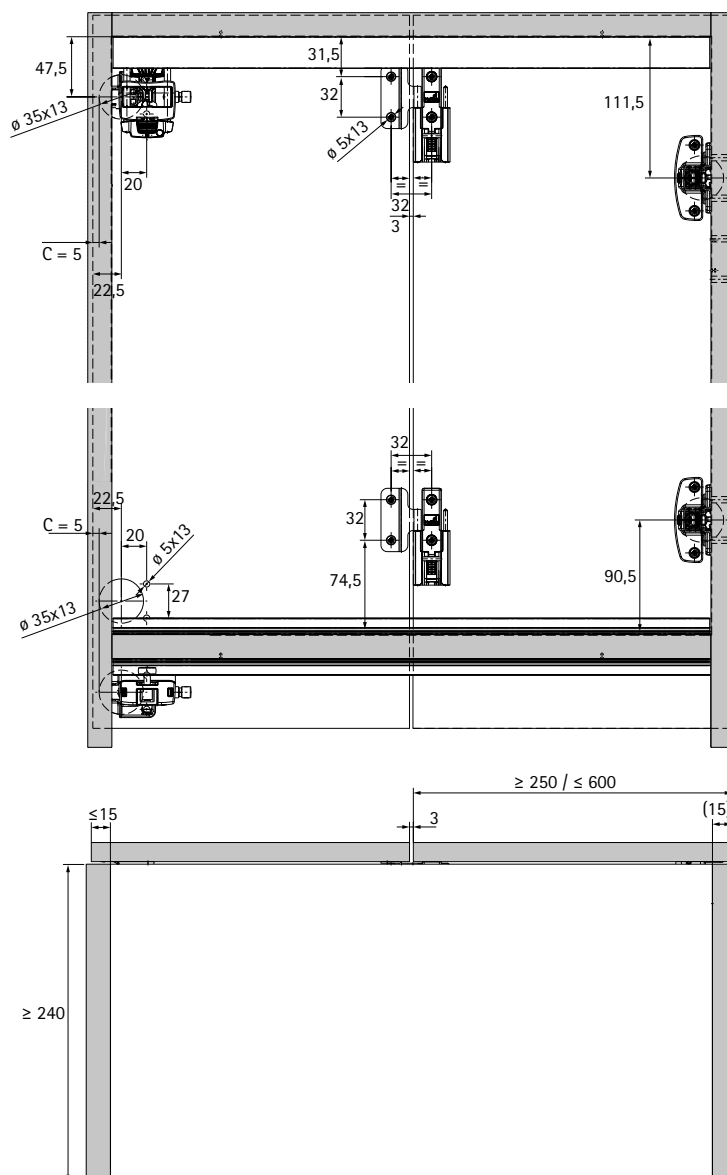
- ▶ Securely holds the profiles in the correct screw mounting position
- ▶ Installation clip can be used on the runner profile and guide profile (on and under the plinth)
- ▶ Plastic, grey

Order no.	PU
9 237 758	500 ea.

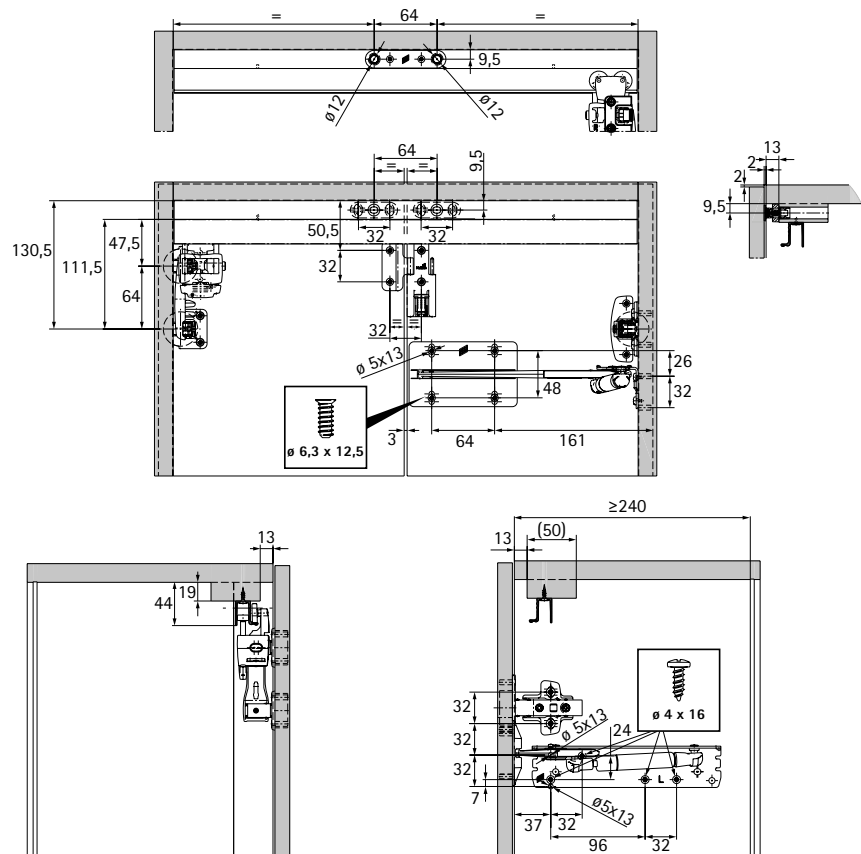
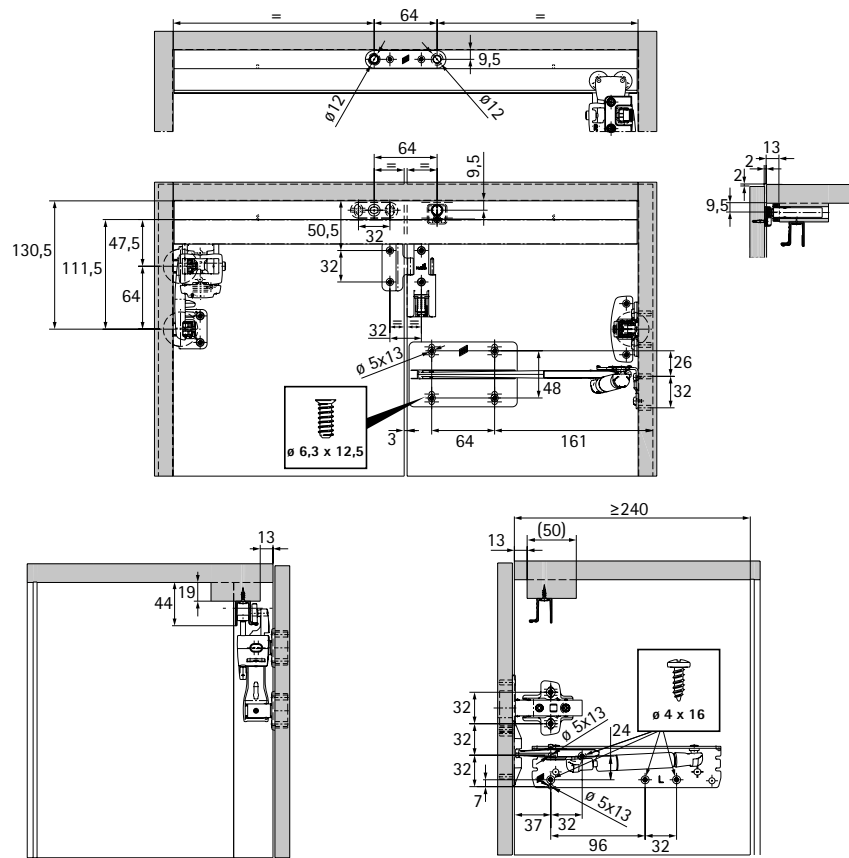
- ▶ WingLine L / attached to the side
- ▶ Planning dimensions



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


$$\leq 2400 /$$
$$\leq 12 \text{ kg}$$


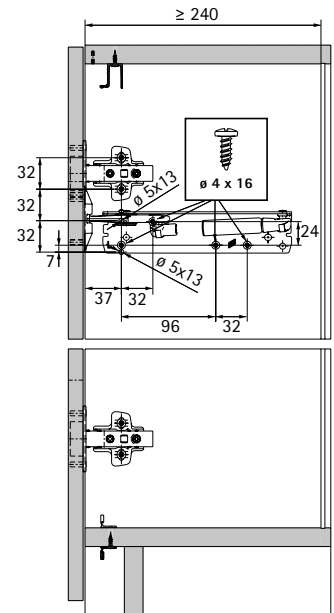
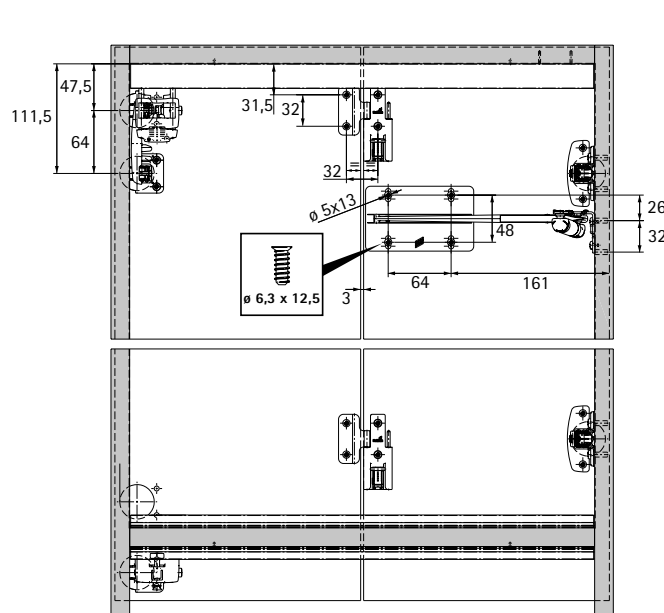
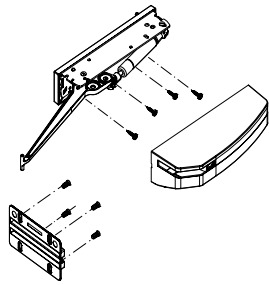
- ▶ WingLine L / attached to the side
- ▶ Planning dimensions



Folding door system

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

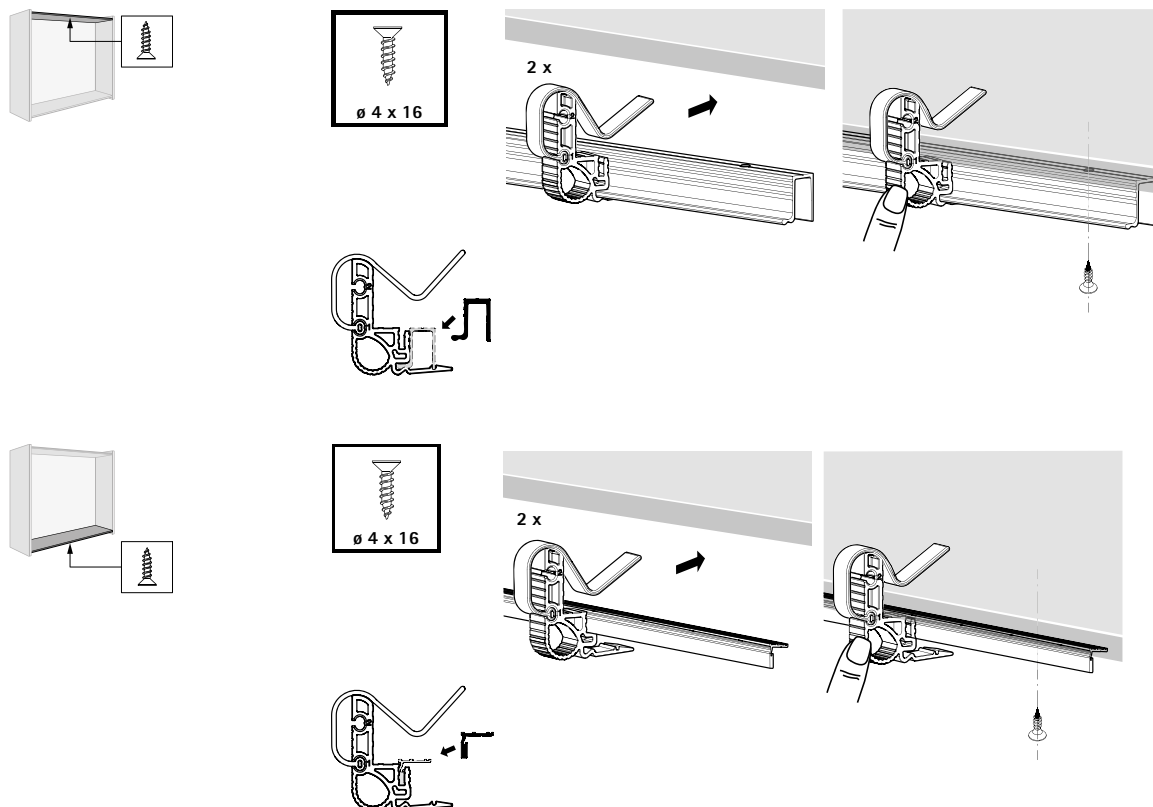
WingLine L with Pull to move Silent



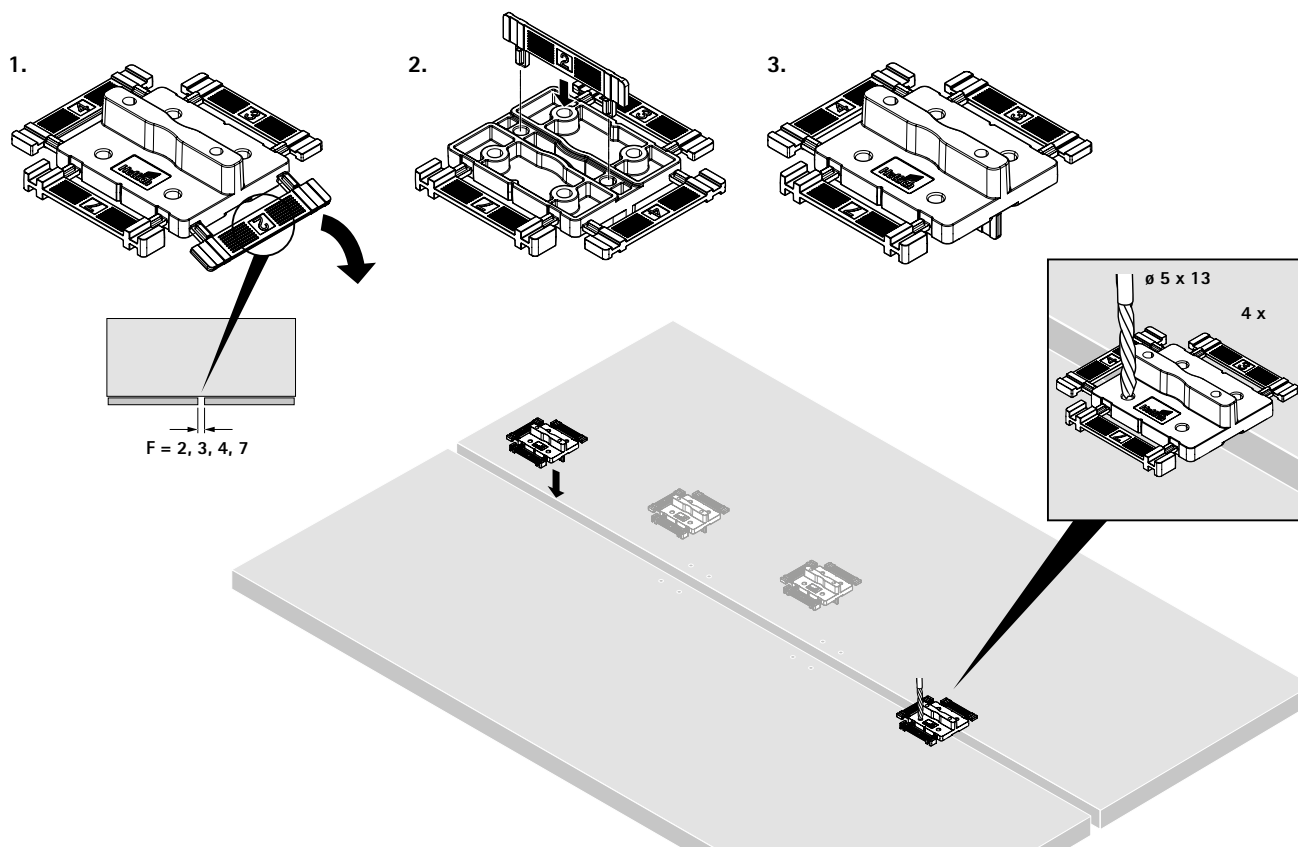
Folding door system

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

Installing runner and guide profiles



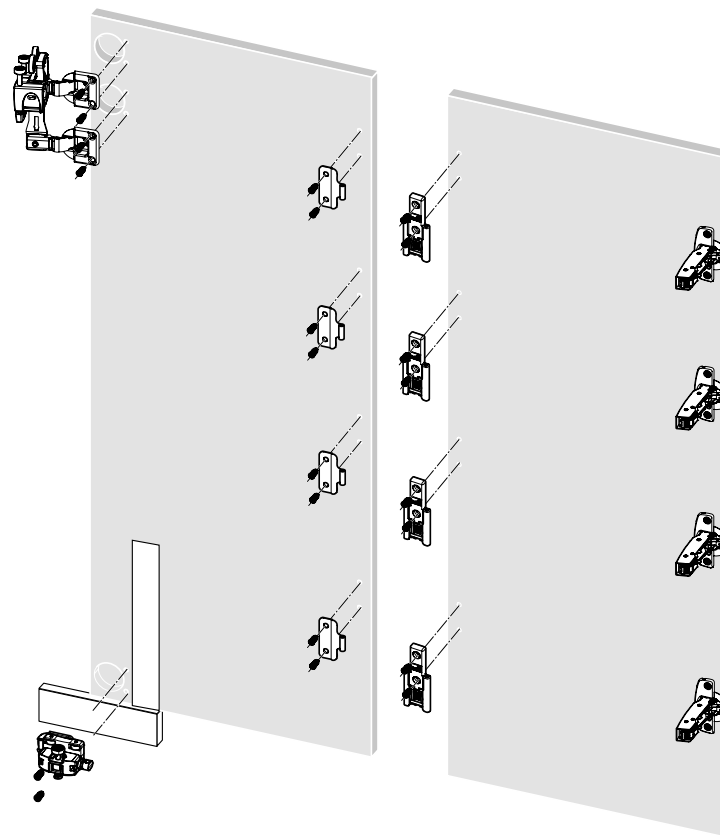
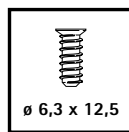
Positioning centre hinges



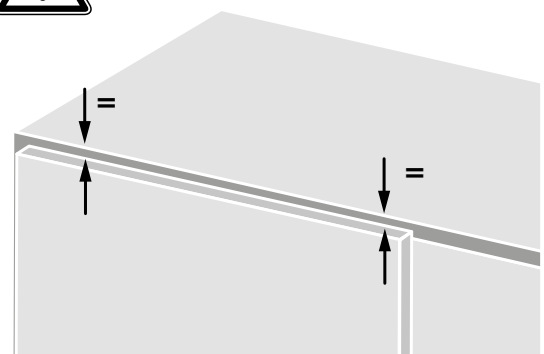
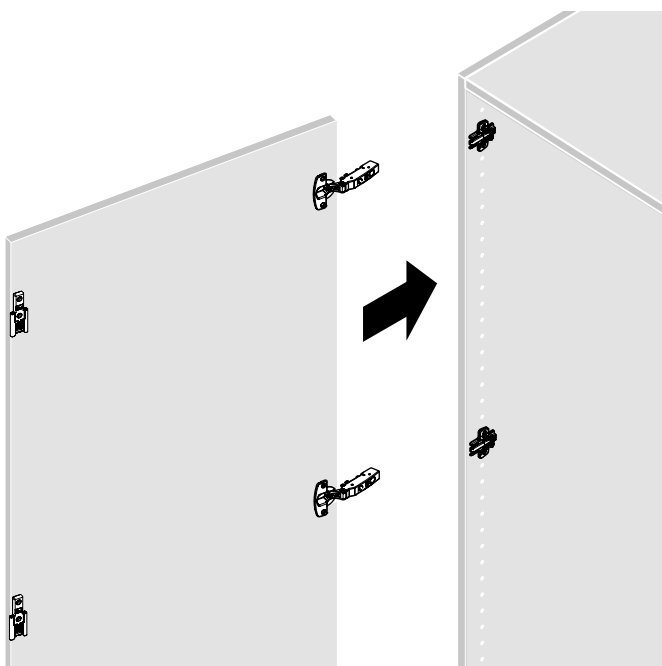
Folding door system

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

Installing fitting components



Installing first door wing

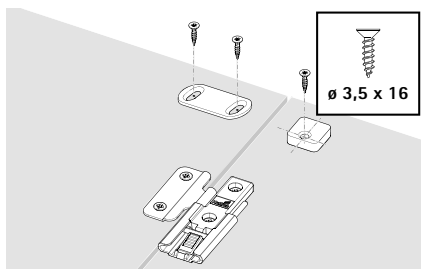
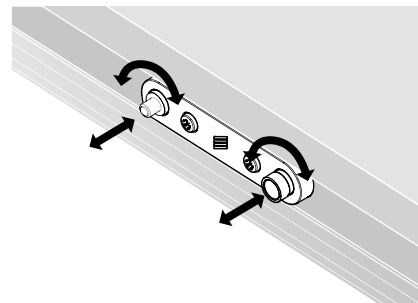
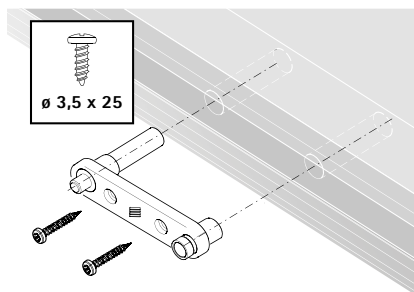
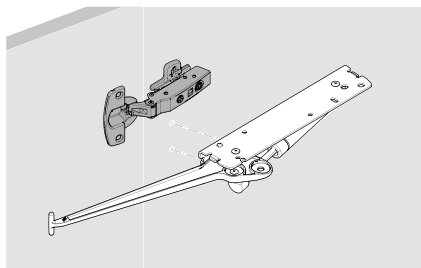


Folding door system

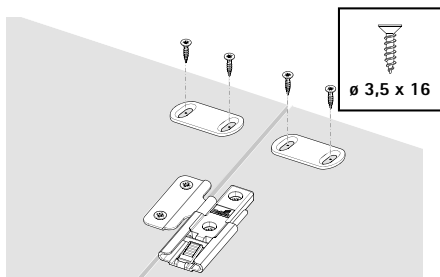
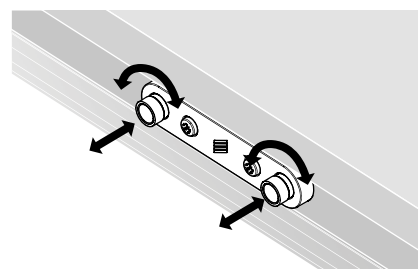
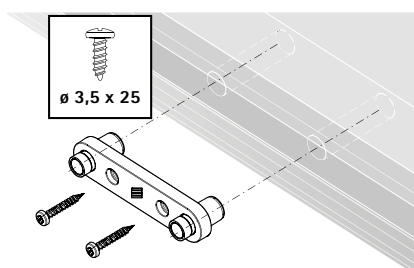
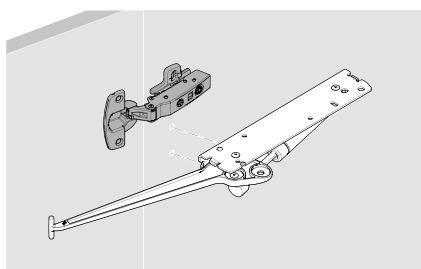
- ▶ WingLine L / attached to the side
- ▶ Installation

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

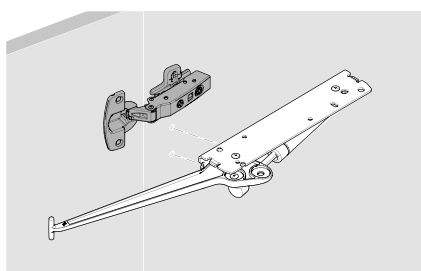
Push to move



Pull to move



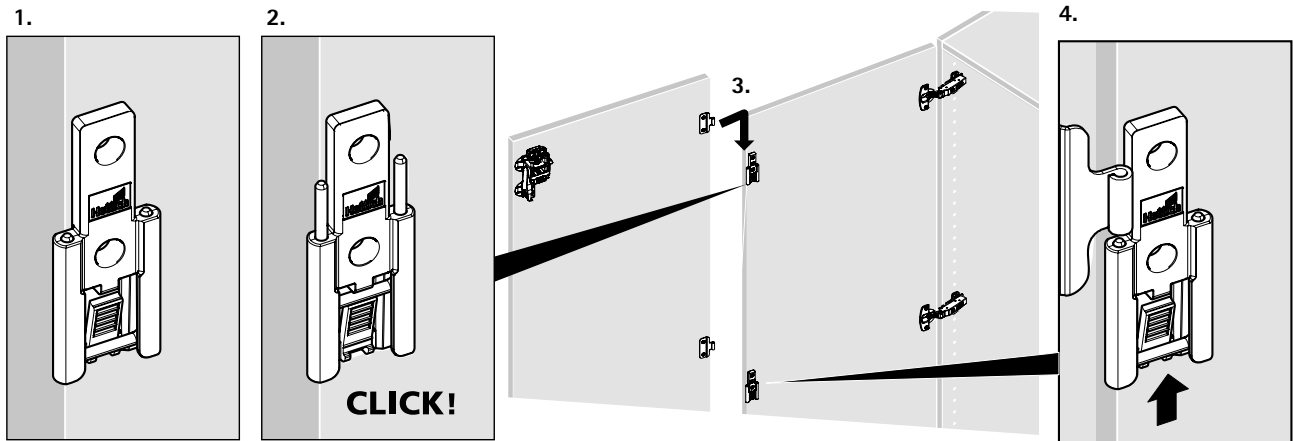
Pull to move Silent



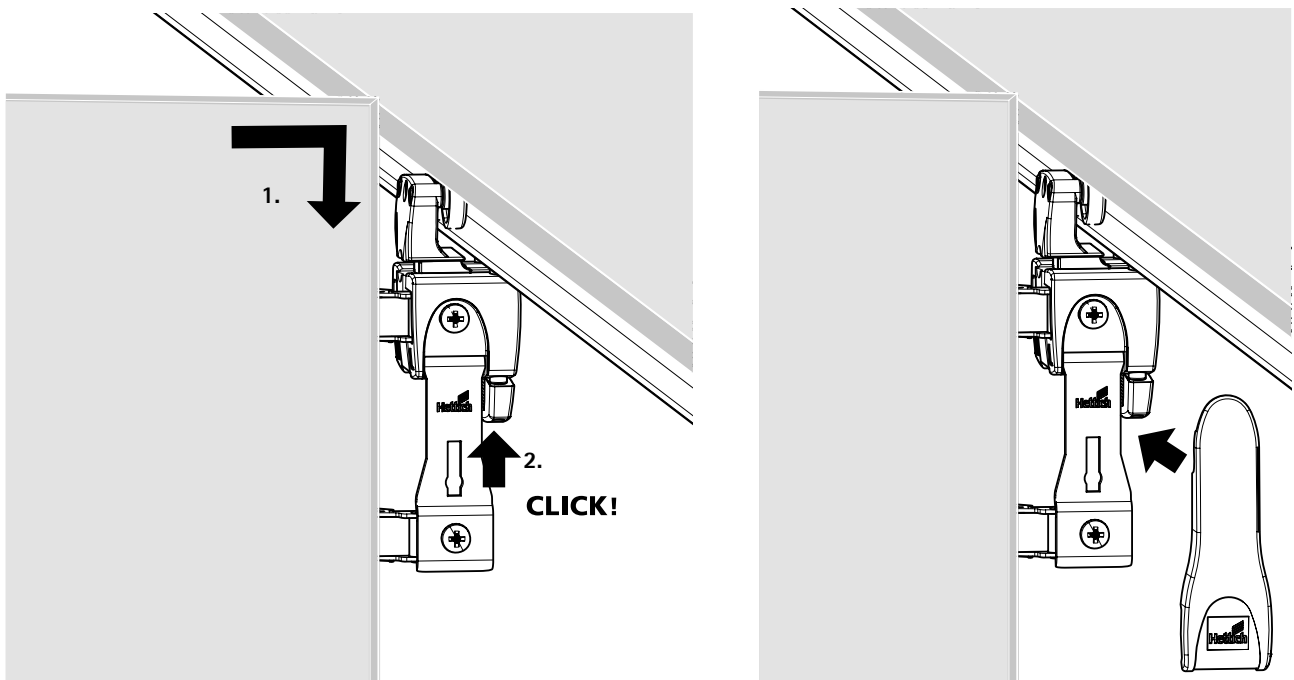
Folding door system

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

Toolless fast installation of the second door wing



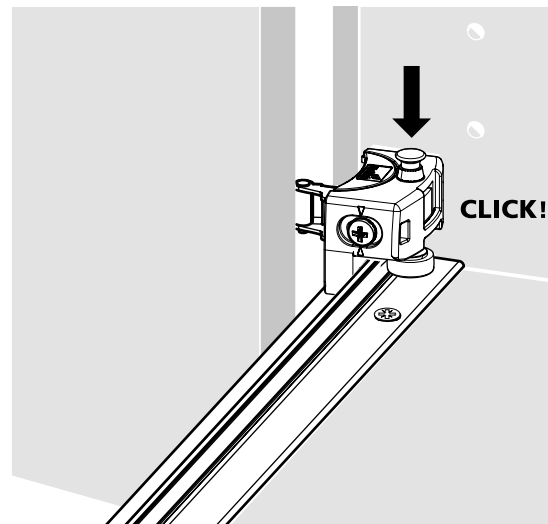
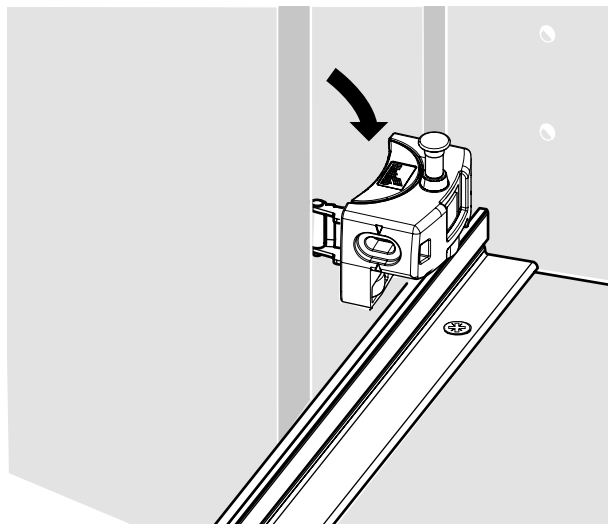
Tool-less running component fast assembly



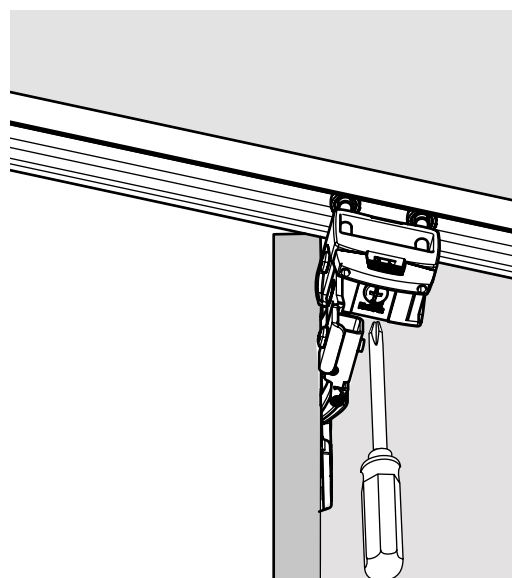
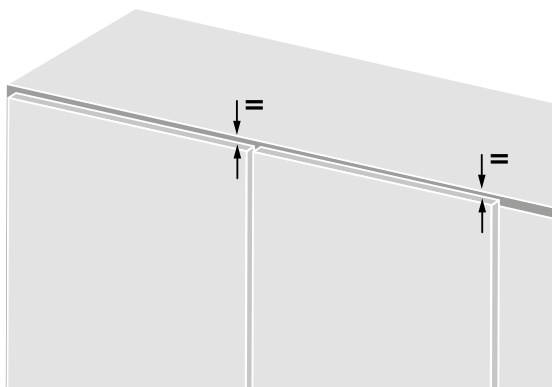
Folding door system

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

Tool-less fast assembly of guide components



Height adjustment at the running component



Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ All the benefits at a glance



Mightily impressed. You will never fail to impress your customers with sturdy WingLine 220: attached to the carcase side, the top running folding door system easily and conveniently moves even heavy and tall doors. Door wings weighing up to 25 kg. Installed on the top panel, the runner profile elegantly disappears behind the doors. Left completely unobstructed, optimum use is made of storage space.



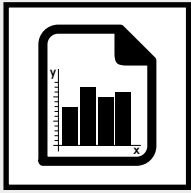
The runner profile is mounted on top panel. For high quality furniture design and optimum use of storage space.



Bottom guide profile under the bottom panel - for shallow plinth constructions. No visible fittings or profiles inside. More unobstructed space in the cabinet

Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ Summary



Performance summary

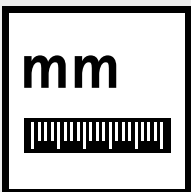
32 – 33

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



System components

34 – 35



Planning dimensions

36



Installation

37 – 38



Accessories

78 – 92



Technical information

- ▶ Calculating door weights
- ▶ Quality criteria

93 – 94

95

Folding door system

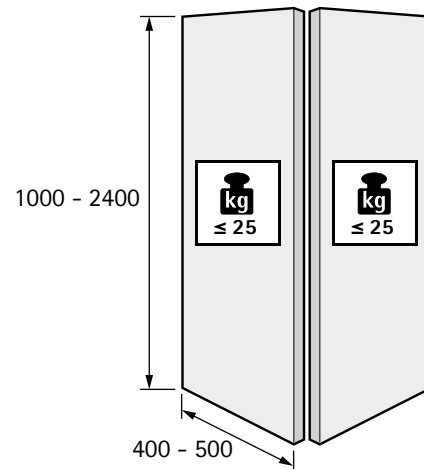


- ▶ WingLine 220 / Attached to the side
- ▶ Performance summary

Technical details in brief

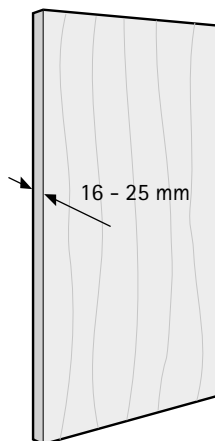
- ▶ For 1 folding door with 2 wings
- ▶ Overlay door position
- ▶ For wooden doors
- ▶ Suitable for use with Sensys hinge with Silent System
- ▶ Door wing weight up to 25 kg
- ▶ Door height up to 2400 mm
- ▶ Door wing width 400 - 500 mm
- ▶ Height adjustment +/- 5 mm
- ▶ Tested with 40000 cycles

Door format and door weight

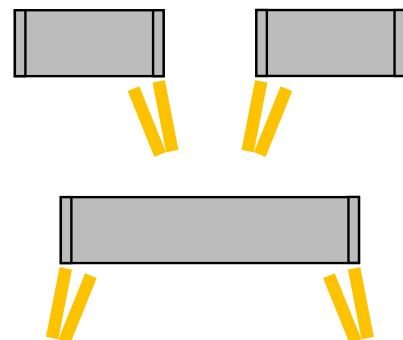


see pages 93 - 94

Door material



Number of door wings and door position

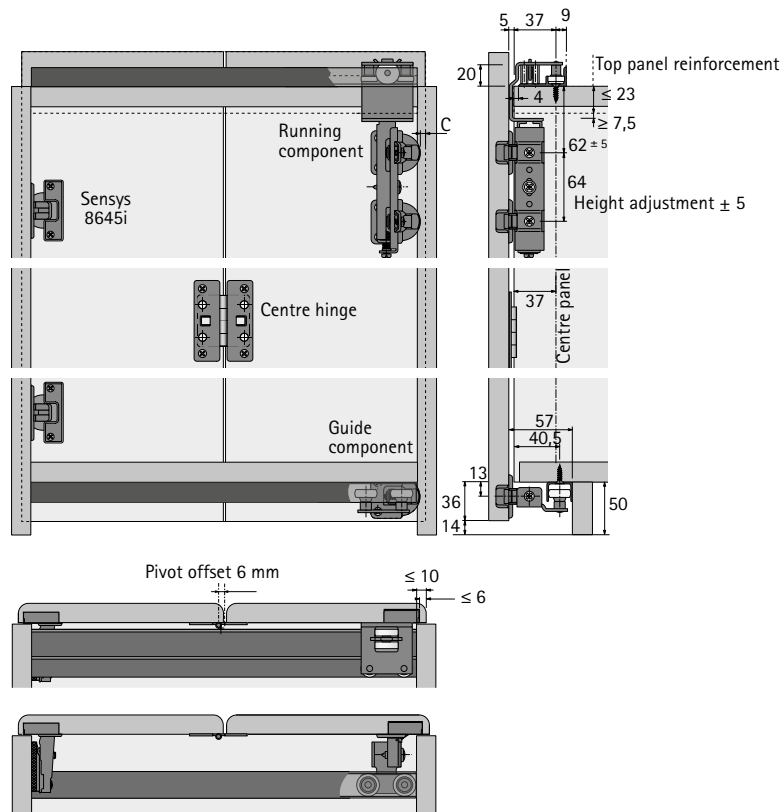


Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ Performance summary



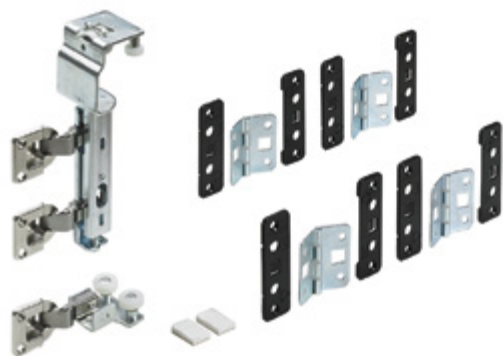
Operating principle / 1 folding door with 2 wings



Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ System components

WingLine 220 set



- ▶ Set contains all the parts required for 1 folding sliding door with 2 panels

Set comprises:

- ▶ 1 tandem running component with height adjustment
- ▶ 1 guide component
- ▶ 4 clip on centre hinges

Advice:

- ▶ Please order profiles separately

Hinge side of cabinet	Order no.	PU
left	0 041 248	1 set
right	0 041 247	1 set

Tandem runner



- ▶ With 2 premounted concealed hinges/springs
- ▶ Steel, nickel plated
- ▶ Height adjustment (+/- 5 mm)

Hinge side of cabinet	Order no.	PU
right	9 015 391	20 ea.
left	9 015 393	20 ea.

Guide component



- ▶ With 2 runner rollers and 1 concealed hinge/spring
- ▶ Steel, nickel plated

Hinge side of cabinet	Order no.	PU
right	9 015 395	50 ea.
left	9 015 394	50 ea.

Clip on centre hinge



- ▶ For clipping on
- ▶ Steel, nickel plated

Advice:

- ▶ Please order fixing plates separately

Order no.	PU
1 023 514	250 ea.

mounting plate



- ▶ For clip on centre hinge
- ▶ Black plastic

Page reference:

- ▶ To calculate the pivot offset for folding doors, see page 36

Order no.	PU
9 001 818	2000 ea.

Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ System components



Runner profile



- ▶ For screwing on
- ▶ Length 2,000 mm
- ▶ Aluminium, silver anodized

Length mm	Order no.	PU
2000	0 041 249	1/4 ea.
individual	LA 01878	100 ea.

Guide profile



- ▶ For screwing on
- ▶ Length 2,000 mm
- ▶ Aluminium, silver anodized

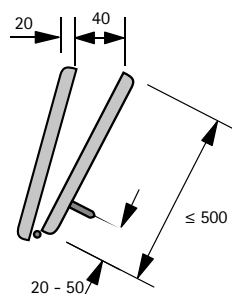
Length mm	Order no.	PU
2000	0 041 251	1/4 ea.
individual	LA 01898	100 ea.

Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ Planning dimensions

Installation dimensions for WingLine 220

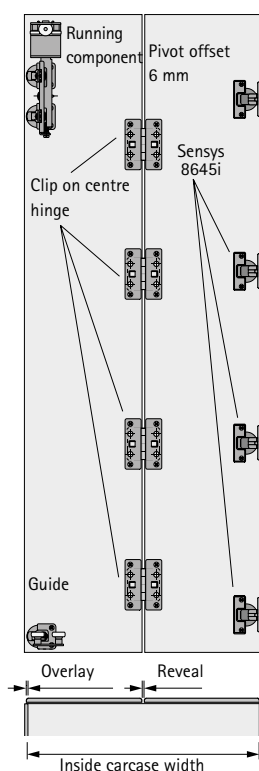
2-wing door set



2-wing folding door

Door width 1000 mm max.
Door weight / wing 25 kg max.
Door wing height 2400 mm max.

2-wing folding door

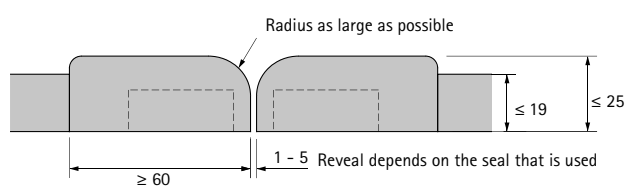
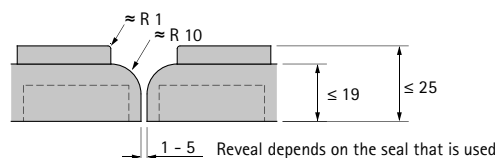
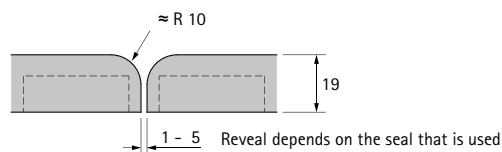


Calculation of door width / door wing width

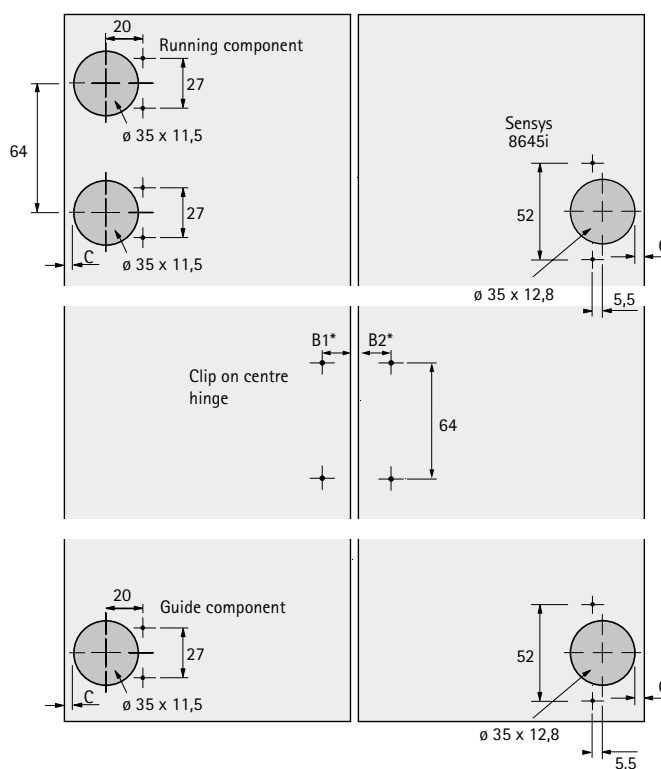
Door width = inside carcase width + (2 x overlay*)
Door wing width = (inside carcase width - 1 x reveal + 2 x overlay*) ÷ 2

* Overlay: max. 15 mm

Door wing contours and reveals (as finger protection)



Drilling patterns



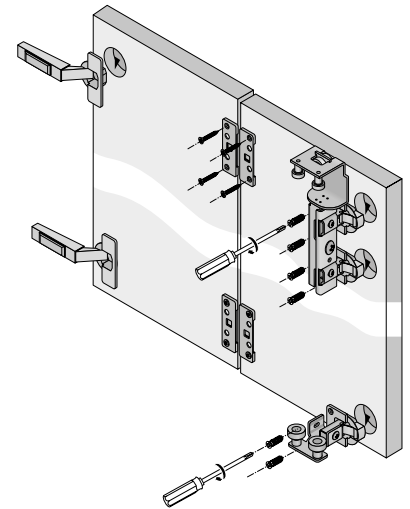
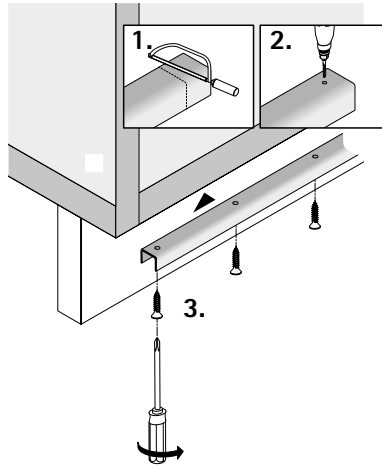
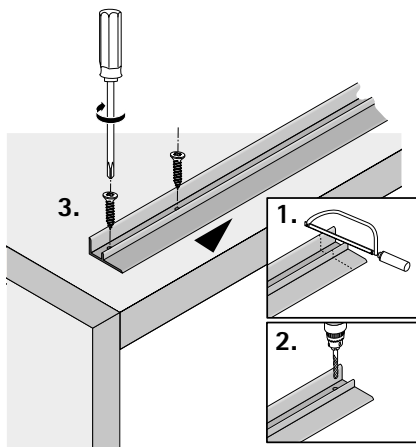
Drill hole spacing mm

*B1	10,5	11	11,5	12	12,5
*B2	22,5	23	23,5	24	24,5
Reveal mm	5	4	3	2	1

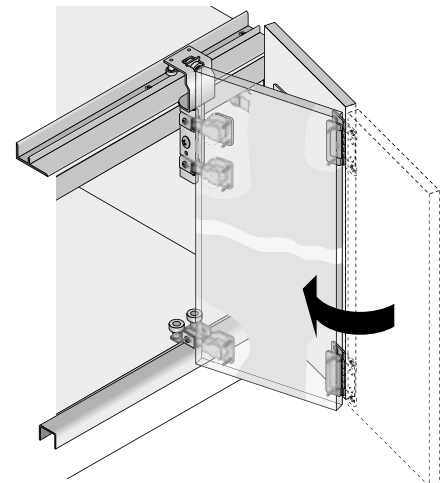
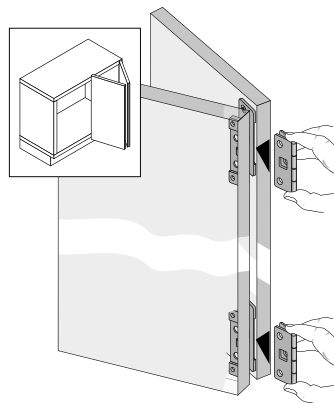
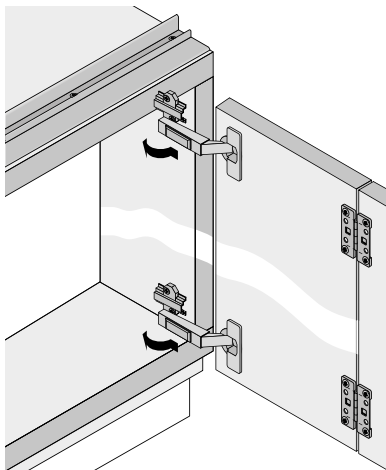
Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ Installation

Installation runner and guide profile / Preparing door set



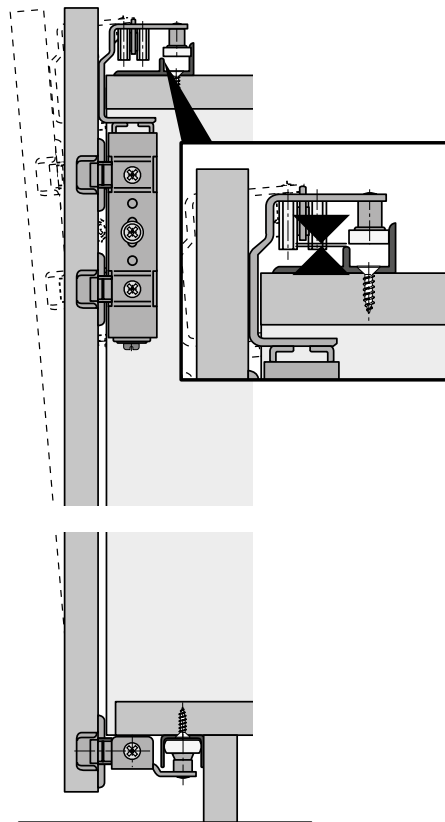
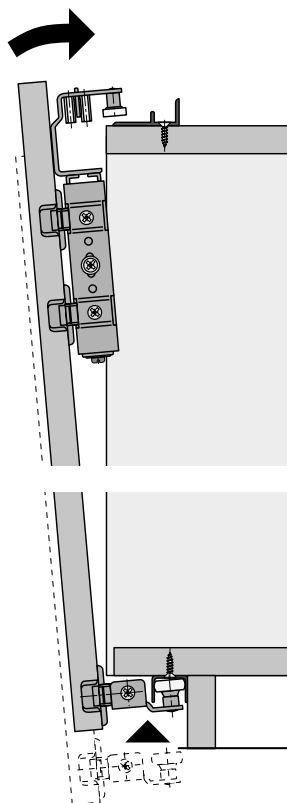
Process for installing door set



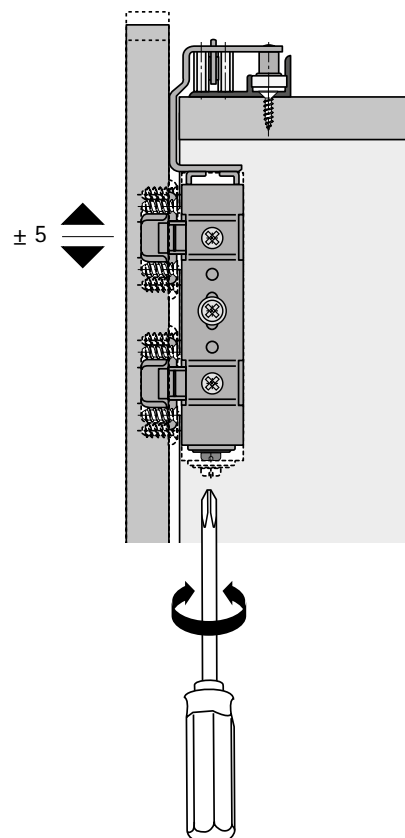
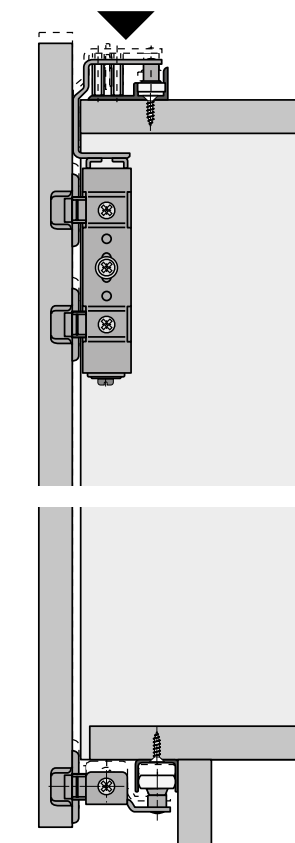
Folding door system

- ▶ WingLine 220 / Attached to the side
- ▶ Installation

Installing running and guide components



Height adjustment on running component



Folding door system

- ▶ WingLine 230 / Attached to the side
- ▶ All the benefits at a glance

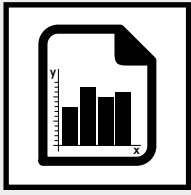


For mammoth tasks.

WingLine 230 is the giant among folding door systems: areas of over 6 m² are opened up in a single movement. Perfect for large cabinets, e.g. in the office or utility room. As an agile room divider. Or for a walk in cabinet in living areas that can be opened and closed with a turn of the hand. WingLine 230 has exactly what it takes, supporting doors with a leaf weight of 20 to 25 kg. Extremely sturdy: side mounting with Sensys 8645i fast assembly concealed hinge. WingLine 230 requires neither centre panels nor any bottom guide.

Folding door system

- ▶ WingLine 230 / Attached to the side
- ▶ Summary



Performance summary

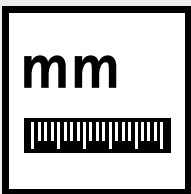
42 – 43

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



System components

44 – 45



Planning dimensions

46 – 47



Installation

48



Accessories

78 – 92



Technical information

- ▶ Calculating door weights
- ▶ Quality criteria

93 – 94

95

Folding door system

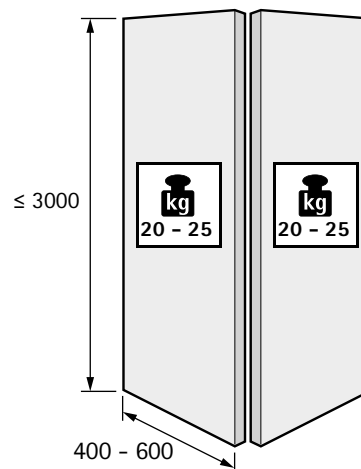


- ▶ WingLine 230 / Attached to the side
- ▶ Performance summary

Technical details in brief

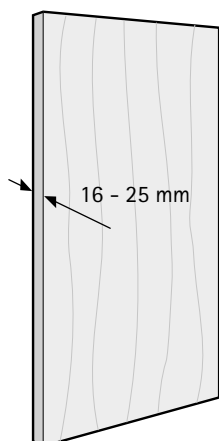
- ▶ For 1 folding door with 2 wings
- ▶ Overlay door position
- ▶ For wooden doors
- ▶ Suitable for use with Sensys hinge with Silent System
- ▶ Door wing weight 20 to 25 kg
- ▶ Door height up to 3000 mm
- ▶ Door wing width up to 600 mm
- ▶ Tested with 40000 cycles

Door format and door weight

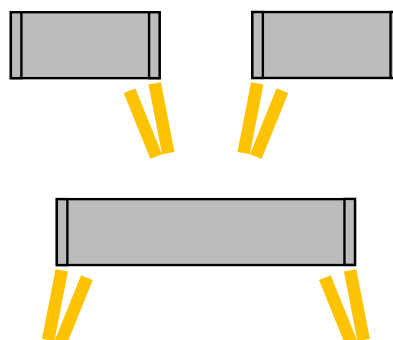


see pages 93 - 94

Door material



Number of door wings and door position

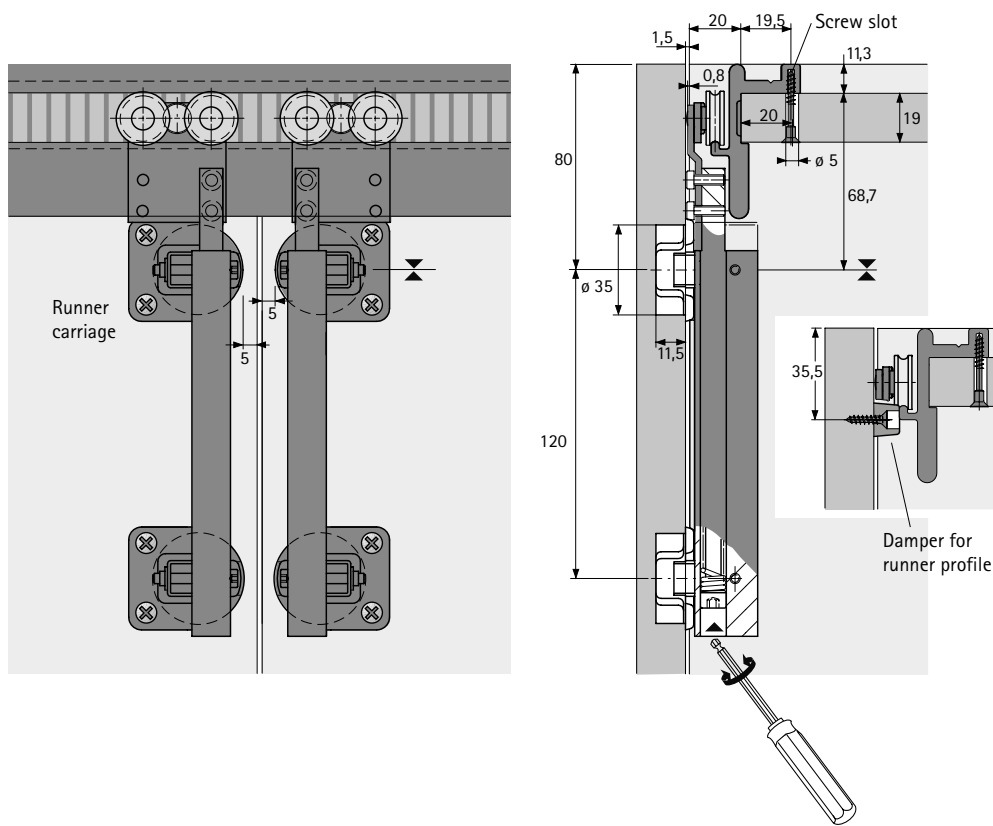


Folding door system

- ▶ WingLine 230 / Attached to the side
- ▶ Performance summary



Operating principle / 1 folding door with 2 wings



Folding door system

- ▶ WingLine 230 / Attached to the side
- ▶ System components

WingLine 230 set



- ▶ Set contains all the parts required for 1 folding sliding door with 2 panels, right or left, and 2 folding doors with 2 panels each on right and left

Set comprises:

- ▶ 1 / 2 running components
- ▶ 5 / 10 folding door hinges for pressing in
- ▶ 1 / 2 dampers on the loose shelf
- ▶ 1 / 2 dampers on the runner profile
- ▶ Fixing material

Advice:

- ▶ Please order profiles separately

Hinge side of cabinet	Order no.	PU
left	0 010 083	1 set
right	0 010 084	1 set
left and right	0 079 015	1 set

Running component



- ▶ With 2 concealed hinges / springs
- ▶ Steel, nickel plated

Hinge side of cabinet	Order no.	PU
left	1 072 987	20 ea.
right	1 072 988	20 ea.

Centre hinge with adjustable offset pivot



- ▶ Centre hinge for folding doors
- ▶ For door thicknesses from 15 mm
- ▶ Same drilling pattern for door and side element, both elements are mounted separately
- ▶ The reveal can be infinitely adjusted from minimum reveal to + 4 mm, application is always flush
- ▶ Gradual adjustment of the pivot offset with 0 mm, 3 mm and 6 mm
- ▶ Zinc die-cast nickel plated

Mounting option	Order no.	PU
For pressing in	1 001 955	100 ea.

Damper on the loose shelf



- ▶ Installation on loose shelf
- ▶ Plastic

Colour	Order no.	PU
white	1 064 144	2000 ea.

Folding door system

- ▶ WingLine 230 / Attached to the side
- ▶ System components

Damper on the runner profile



- ▶ Installation on the runner profile
- ▶ Black plastic

Colour	Order no.	PU
black	1 063 159	10000 ea.

Runner profile



- ▶ For 19 mm top shelf
- ▶ For screwing on
- ▶ Length 2,400 mm
- ▶ Aluminium, anodized black / powder coated white

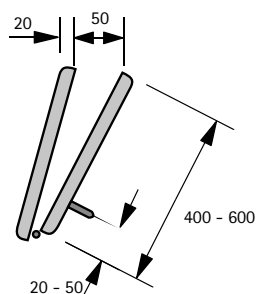
Length mm	Colour	Order no.	PU
2400	white	0 079 013	1/4 ea.
2400	black	0 079 014	1/4 ea.
individual	various	LA 01917	100 ea.

Folding door system

- ▶ WingLine 230 / Attached to the side
- ▶ Planning dimensions

WingLine 230 installation dimensions

2-wing door set



2-wing folding door

Door width 800 - 1200 mm

Door weight / wing 20 - 25 kg

Door wing height 2000 - 3000 mm

Calculation of door width / door wing width

2 folding doors with 4 wings

Door width = inside carcase width + (2 x overlay¹)

Door panel width = (inside carcase width - 3 x reveal + 2 x overlay¹) ÷ 4

Overlay¹: max. 15 mm, C dimension 5 mm

1 folding door with 2 wings

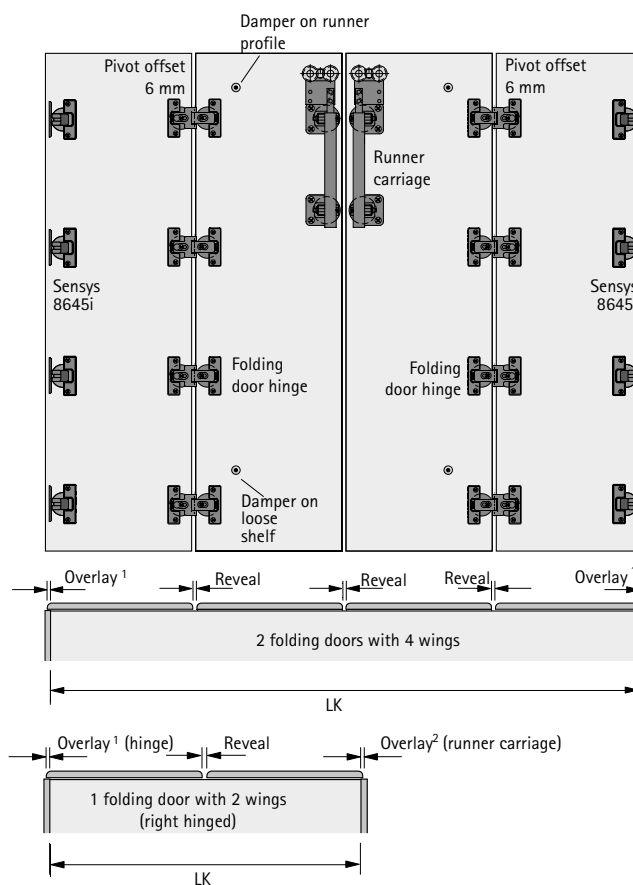
Door width = inside carcase width + (overlay¹ + overlay²)

Door panel width = (inside carcase width - 1 x reveal + overlay¹ + overlay²) ÷ 2

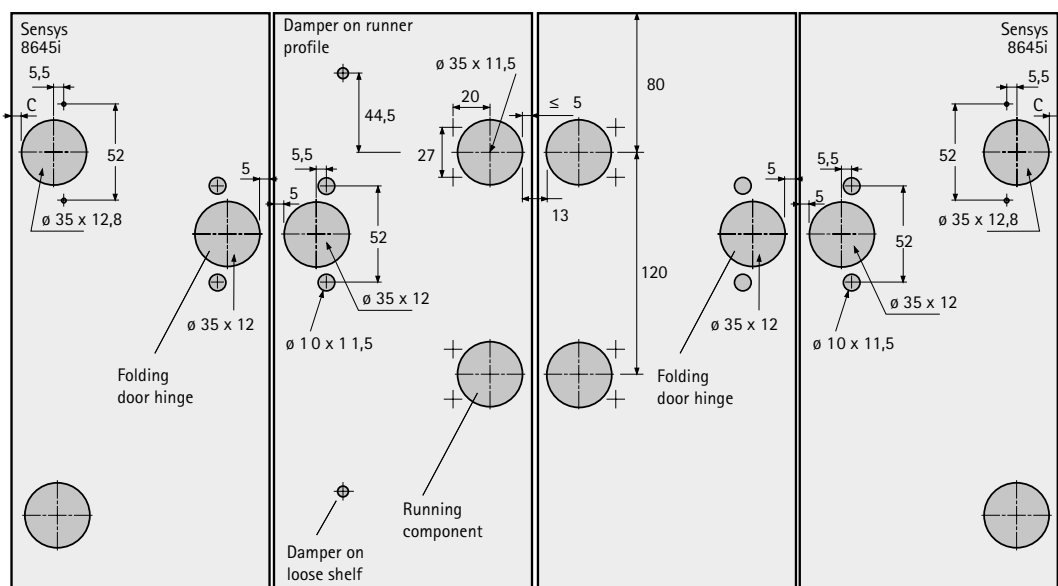
Overlay¹: max. 15 mm, C dimension 5 mm

Overlay²: max. 4 mm

4-wing folding door



Drilling patterns

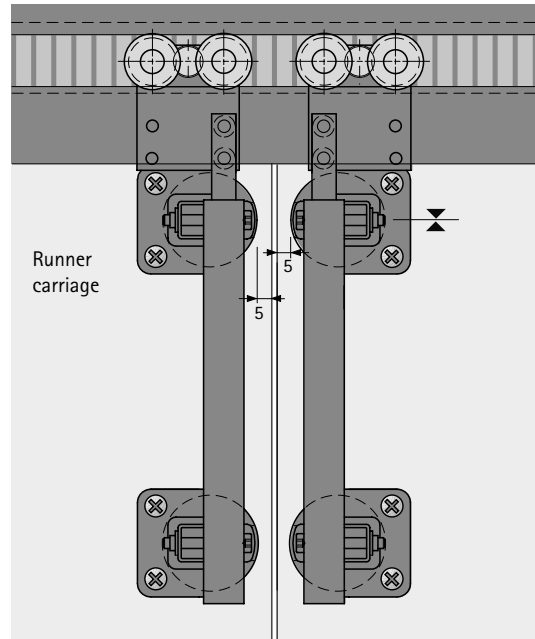
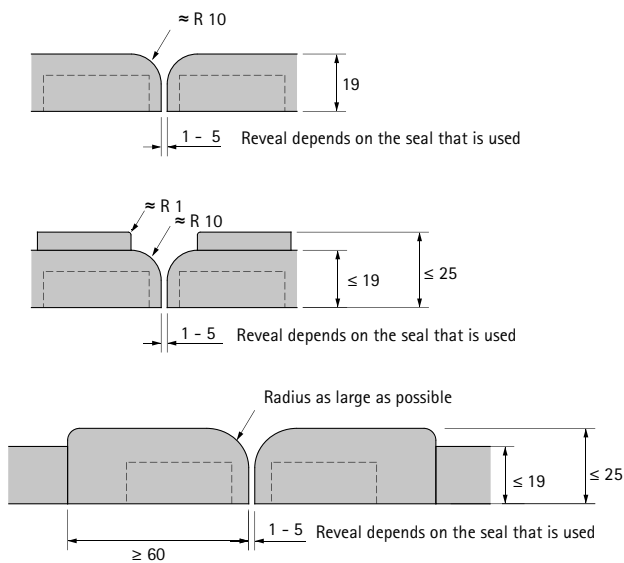


Folding door system

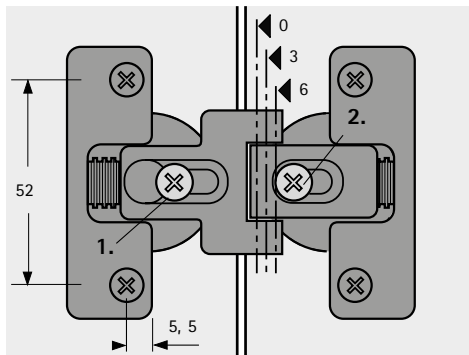
- ▶ WingLine 230 / Attached to the side
- ▶ Planning dimensions

WingLine 230 installation dimensions

Door wing contours and reveals (as finger protection)



Folding door hinge



1. Reveal adjustment: infinitely from minimum reveal to + 4 mm.
2. Gradual adjustment of the pivot offset (0 / 3 / 6) allows door protrusion to be set to 3, 6 or 12 mm.

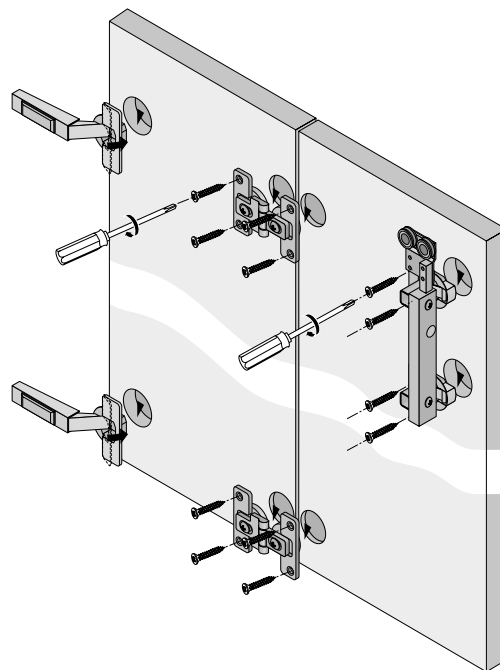
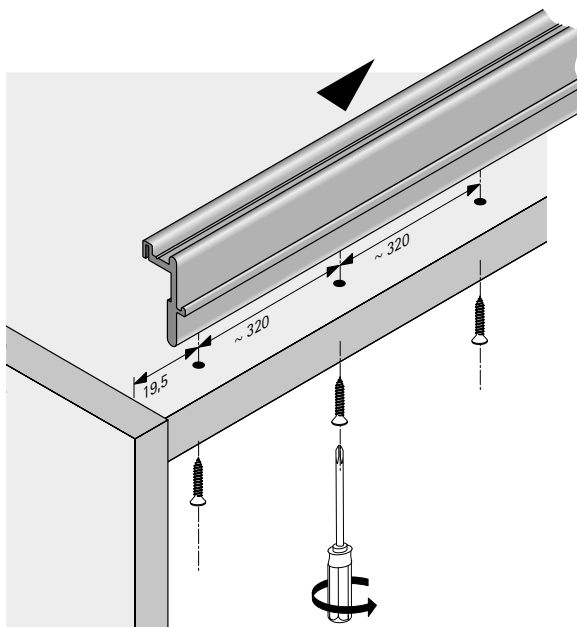
1. Reveal adjustment
2. Pivot offset

Pivot offset mm	Door protrusion mm
0	3
3	6
6	12

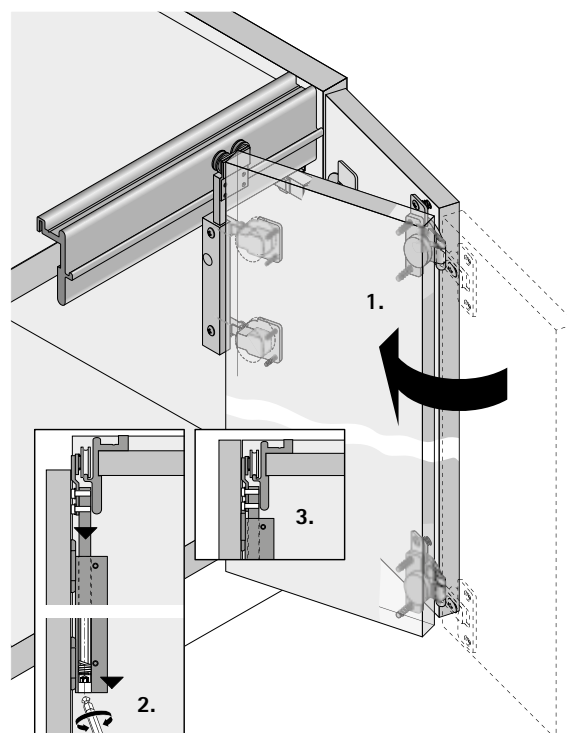
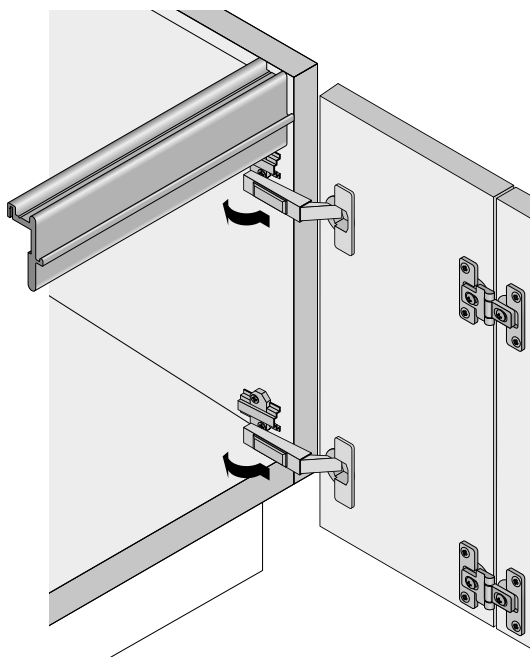
Folding door system

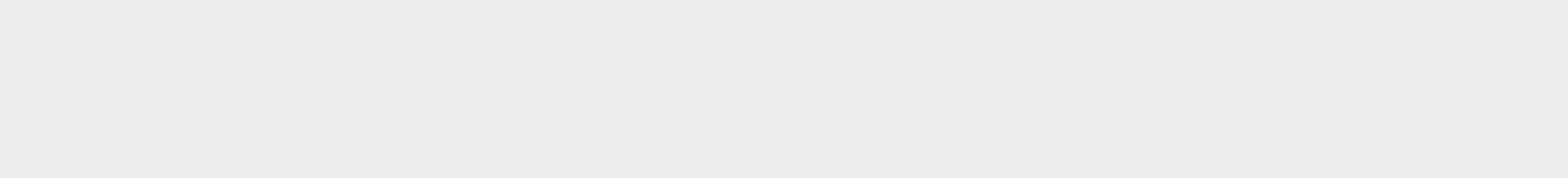
- ▶ WingLine 230 / Attached to the side
- ▶ Installation

Installing runner profile / preparing door set



Installation door set





Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ All the benefits at a glance

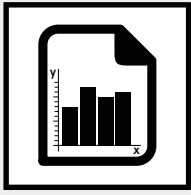


Generating for power.

Attached to the carcase side, the WingLine 77 folding door system even has no problem moving door leaves weighing 25 kg. Running action is precision controlled and velvety smooth. Side mounting with the Sensys 8645i fast assembly concealed hinge saves valuable time.

Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ Summary



Performance summary

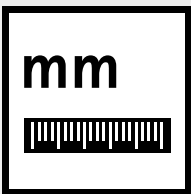
52 – 53

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



System components

54



Planning dimensions

55



Installation

56 – 57



Accessories

78 – 92



Technical information

- ▶ Calculating door weights
- ▶ Quality criteria

93 – 94

95

Folding door system

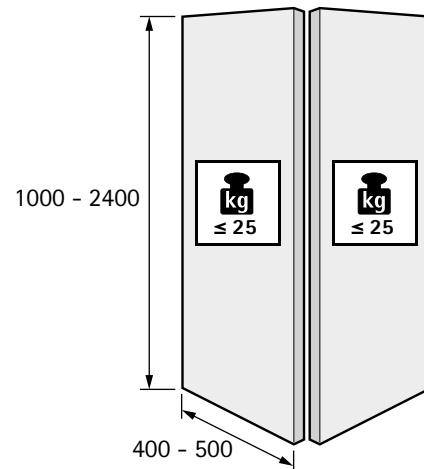


- ▶ WingLine 77 / Attached to the side
- ▶ Performance summary

Technical details in brief

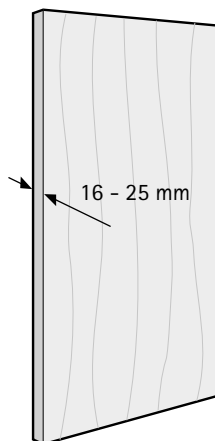
- ▶ For 1 folding door with 2 wings
- ▶ Overlay door position
- ▶ For wooden doors
- ▶ Suitable for use with Sensys hinge with Silent System
- ▶ Door wing weight up to 25 kg
- ▶ Door height up to 2400 mm
- ▶ Door wing width up to 500 mm
- ▶ Height adjustment +/- 3 mm
- ▶ Centre panels recessed 40 mm
- ▶ Tested with 40000 cycles

Door format and door weight

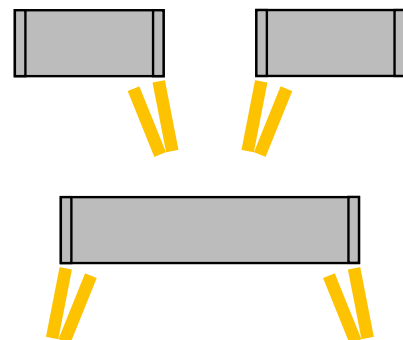


see pages 93 - 94

Door material



Number of door wings and door position

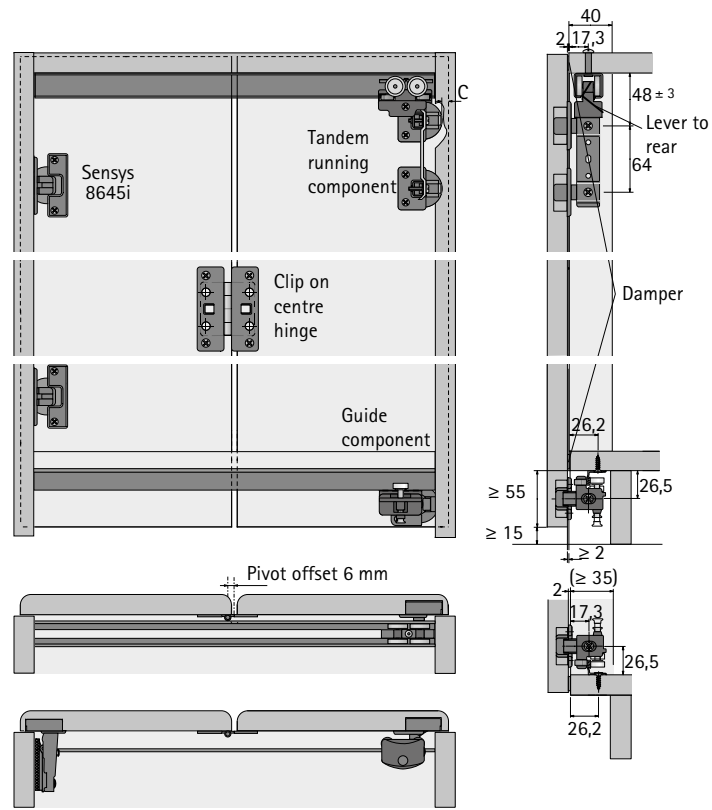


Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ Performance summary



Operating principle / folding door with 2 wings



Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ System components

WingLine 77 set



- ▶ Set contains all the parts required for 1 folding sliding door with 2 panels, right or left

Set comprises:

- ▶ 1 tandem running component
- ▶ 1 support with height adjustment capability
- ▶ 1 guide component
- ▶ 4 clip on centre hinges
- ▶ 2 noise absorbing felts

Advice:

- ▶ Please order profiles separately

Hinge side of cabinet	Order no.	PU
left	0 070 983	1 set
right	0 070 984	1 set

Runner profile



- ▶ For screwing on, screw on positions predrilled
- ▶ Length 2000 mm
- ▶ Aluminium, silver anodized

Order no.	PU
9 193 573	1/4 ea.

Guide profile



- ▶ For screwing on, screw on positions predrilled
- ▶ Length 2000 mm
- ▶ Aluminium, silver anodized

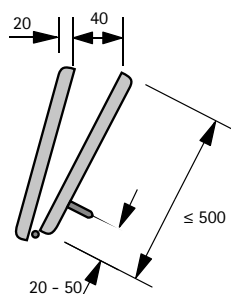
Length mm	Order no.	PU
2000	0 072 919	1/4 ea.

Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ Planning dimensions

WingLine 77 installation dimensions for 1 folding door with 2 wings

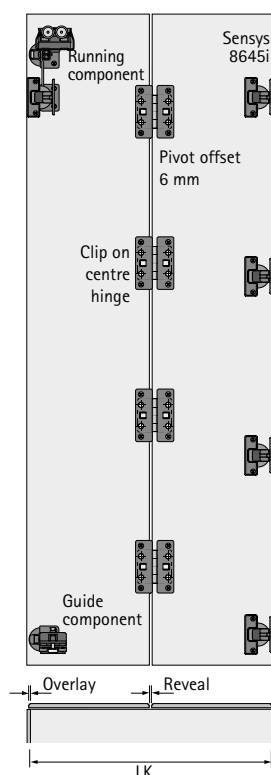
2-wing folding door



2-wing folding door

Door width 1000 mm max.
Door weight / wing 25 kg max.
Door wing height 2400 mm max.

2-wing door set

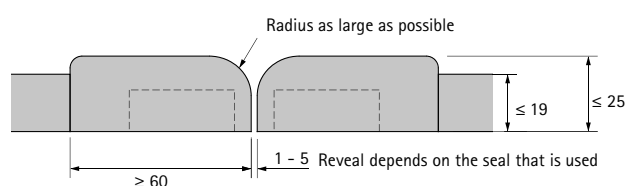
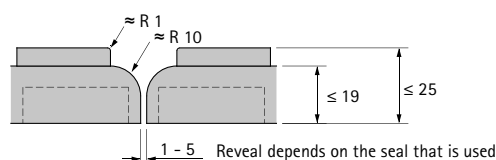
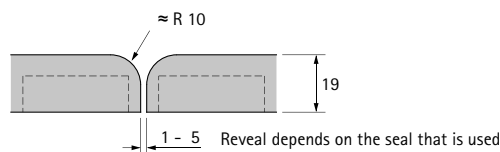


Calculation of door width / door wing width

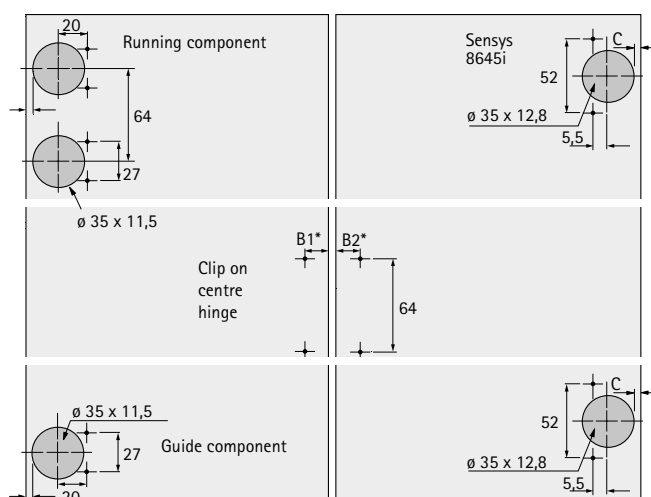
Door width = inside carcase width + (2 x overlay*)
Door wing width = (inside carcase width - 1 x reveal + 2 x overlay*) ÷ 2

* Overlay: max. 15 mm, C dimension 6 mm

Door wing contours and reveals (as finger protection)



Drilling patterns

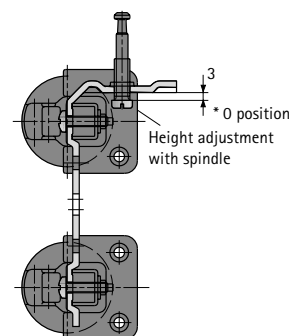


Drill hole spacing mm

*B1	10,5	11	11,5	12	12,5
*B2	22,5	23	23,5	24	24,5
Reveal mm	5	4	3	2	1

Carcase

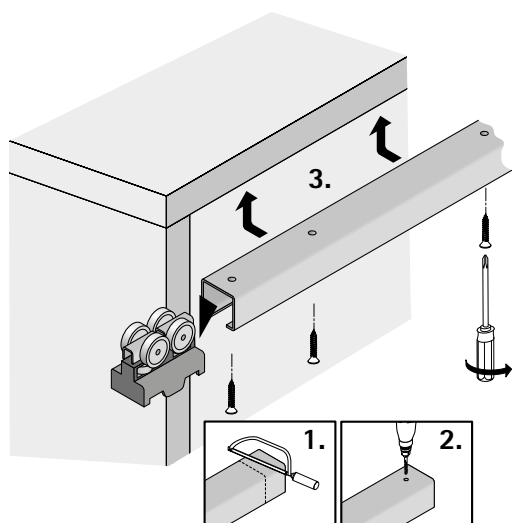
The top panel design should be arranged so that the top panel does not sag by more than 1,5 mm under the load of the folded doors



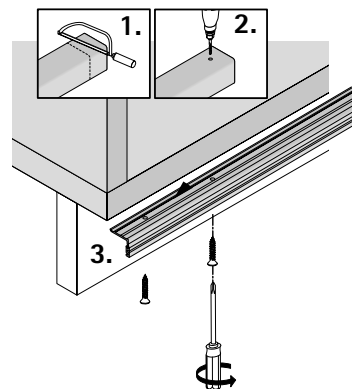
Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ Installation

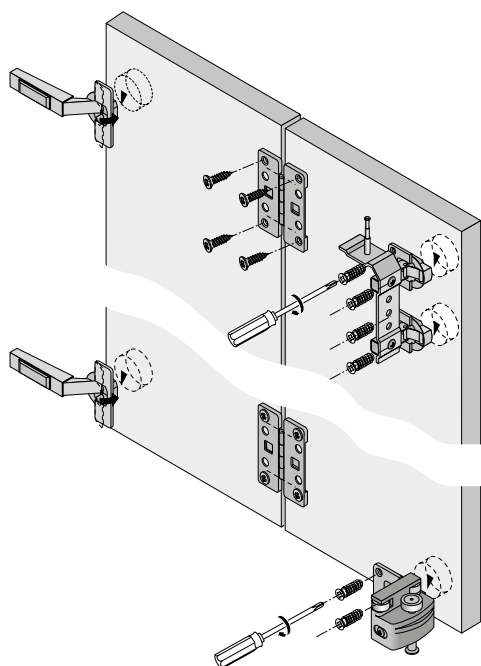
Installation runner profile



Installing guide profile



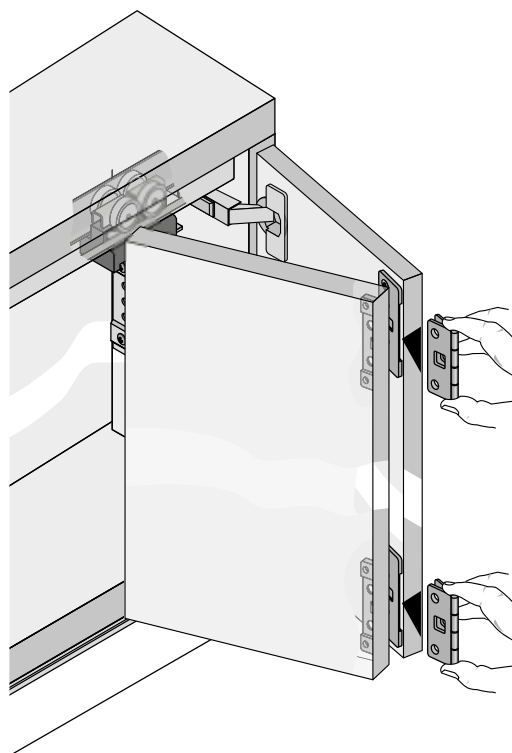
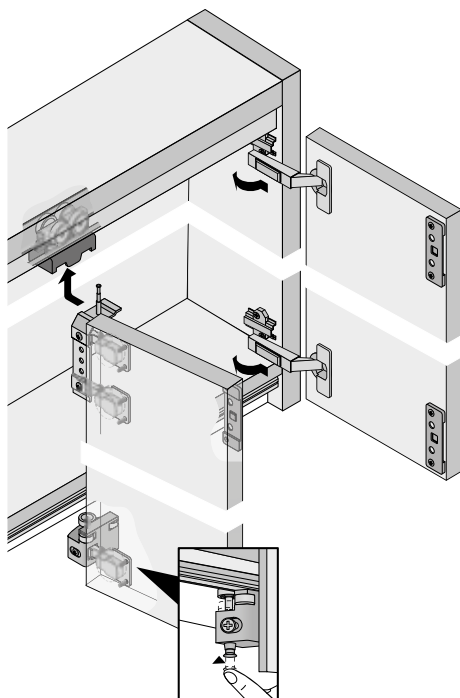
Preparing door set



Folding door system

- ▶ WingLine 77 / Attached to the side
- ▶ Installation

Installing running and guide components / centre hinge



Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ All the benefits at a glance



Commanding view.

WingLine 170 is the folding door system with a generous opening angle of up to 170° – with everything inside in full view and easy access. On opening, the guide bar positioned on the top panel lifts the outer door half from the carcass. No contact – no running noise!



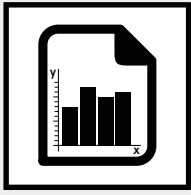
170° opening angle: showing where everything is and never in the way.



Floor clearance: No need for a bottom guide. Low door protrusion for unobstructed access.

Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ Summary



Performance summary

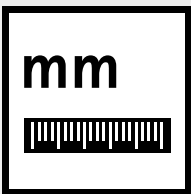
60 – 61

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



System components

62



Planning dimensions

63



Installation

64 – 65



Accessories

78 – 92



Technical information

- ▶ Calculating door weights
- ▶ Quality criteria

93 – 94

95

Folding door system

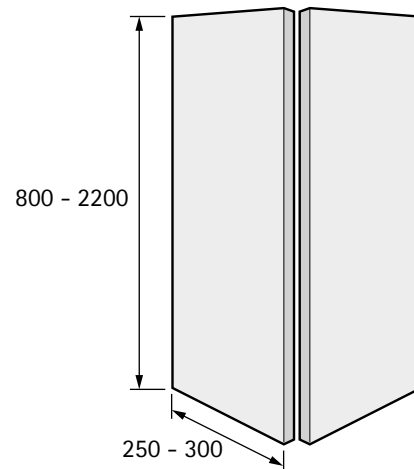


- ▶ WingLine 170 / Attached to the side
- ▶ Performance summary

Technical details in brief

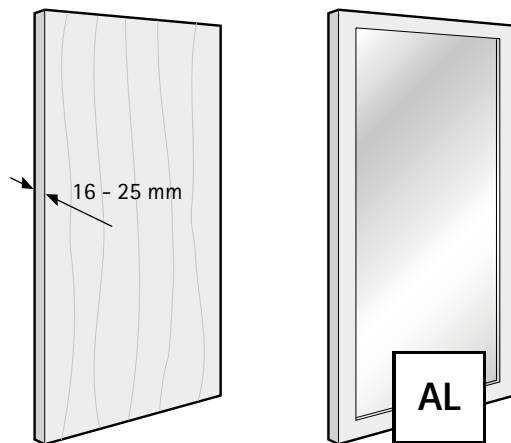
- ▶ For 1 folding door with 2 wings
- ▶ Guide bar mounted on top panel
- ▶ Overlay door position
- ▶ For wooden doors or wood / aluminium framed doors
- ▶ Suitable for use with Sensys hinge with Silent System
- ▶ Door wing weight depends on hinges
- ▶ Door height up to 2200 mm
- ▶ Door wing width up to 300 mm
- ▶ Opening angle up to 170°
- ▶ Runner bar only approx. 10 mm thick
- ▶ Tested with 40000 cycles

Door format and door weight

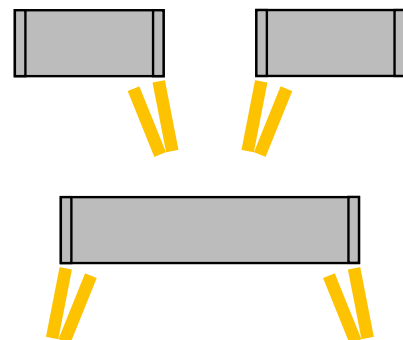


see pages 93 - 94

Door material



Number of door wings and door position

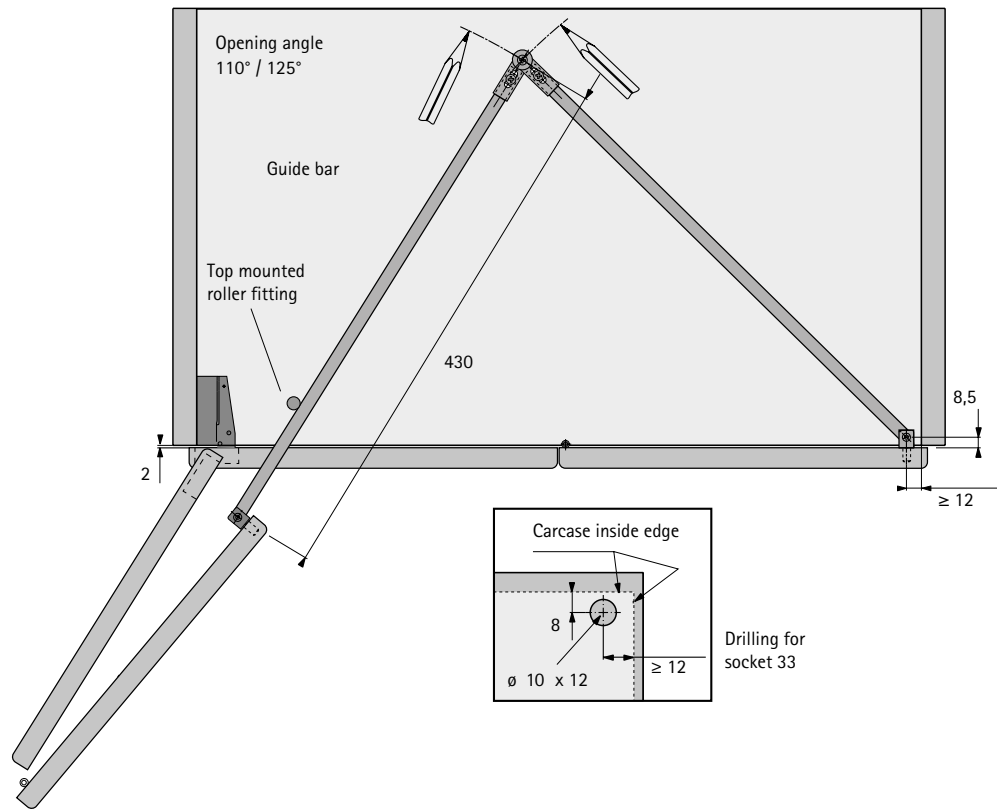


Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ Performance summary



Operating principle



Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ System components

Set, WingLine 170



- ▶ Set contains all the parts required for 1 folding sliding door with 2 panels

Set comprises:

- ▶ 1 runner bar with base and adjustment element
- ▶ 1 side mounted roller fitting
- ▶ Fixing material

Order no.	PU
0 074 658	1 set

Centre hinge 625



- ▶ Centre hinge for folding doors
- ▶ Can be installed at the centre or with pivot offset
- ▶ Top running performance due to abrasion resistant distance rings with pivot bearing
- ▶ With fixed steel pin
- ▶ Steel, nickel plated

Order no.	PU
0 071 648	1/10 ea.
1 022 834	250 ea.

Centre hinge with adjustable offset pivot



- ▶ Centre hinge for folding doors
- ▶ For door thicknesses from 15 mm
- ▶ Same drilling pattern for door and side element, both elements are mounted separately
- ▶ The reveal can be infinitely adjusted from minimum reveal to + 4 mm, application is always flush
- ▶ Gradual adjustment of the pivot offset with 0 mm, 3 mm and 6 mm
- ▶ Zinc die-cast nickel plated

Mounting option	Order no.	PU
For pressing in	1 001 955	100 ea.
For screwing on	0 046 787	1/10 ea.
For pressing in	0 052 095	1/10 ea.

Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ Planning dimensions

WingLine 170 installation dimensions

Use Sensys, Intermat, SlideOn or Selekt Pro 2000 hinge for mounting the door on the carcase.

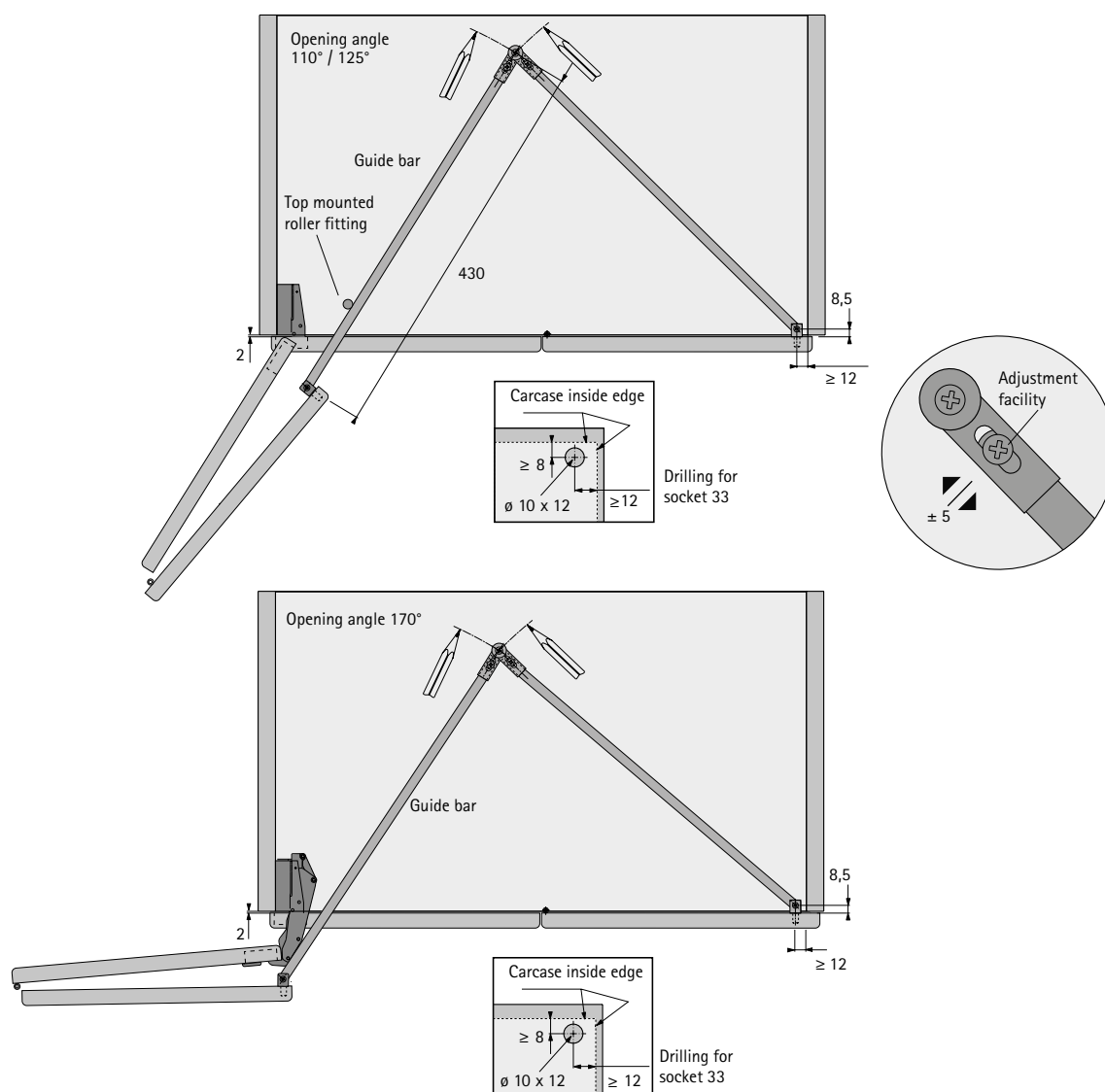
With opening angles of 110° / 125°, 170° and 180°, Wing Line 170 permits unrestricted access to the cabinet interior – see table.

Hinges / mounting plates must be ordered separately.

– see concealed hinges.

Wing width mm	min. 200	250	max. 300
Hinge	approx. min. carcase depth in mm		
110° / 125°	400	370	340
170°	370	350	320
Selekt Pro 2000 / 180°	370	340	310

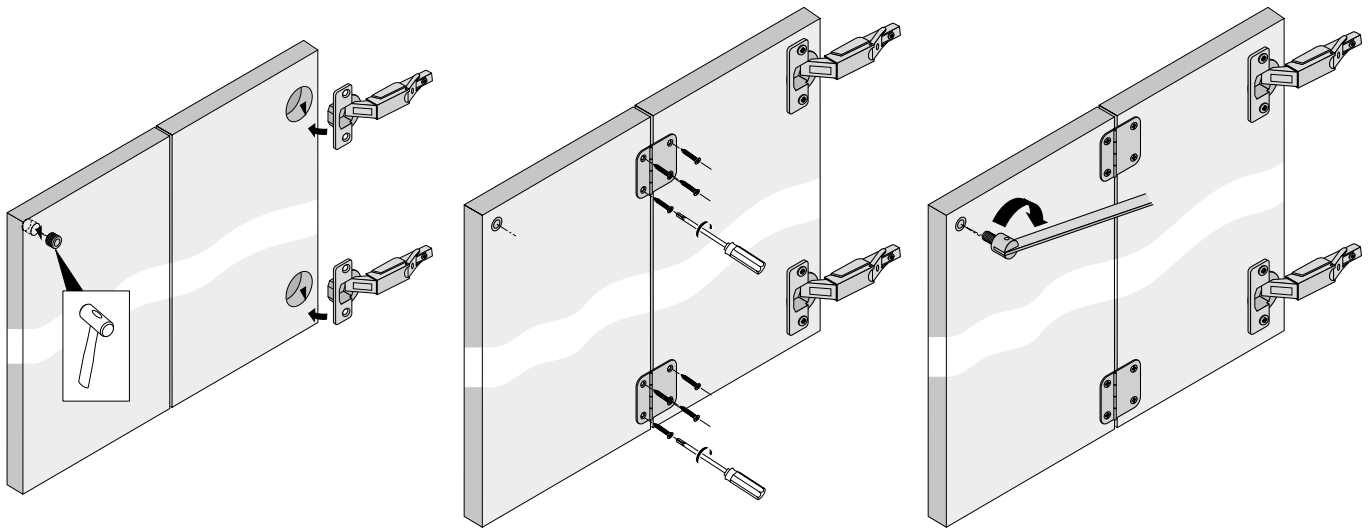
Maximum door height: 2200 mm – requiring a minimum of 5 hinges.



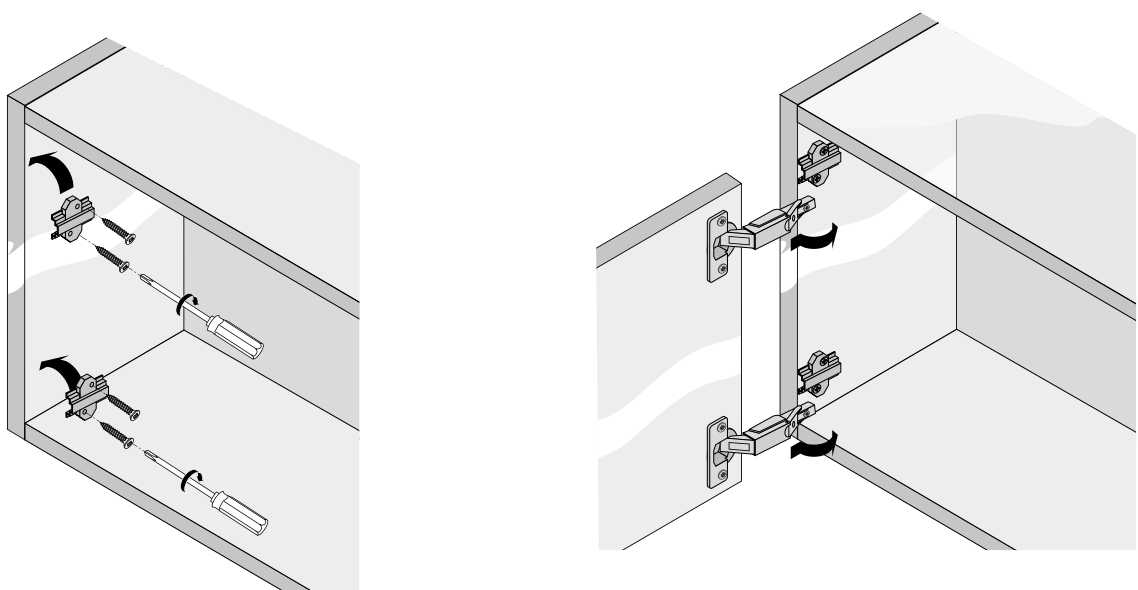
Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ Installation

Preparing door set



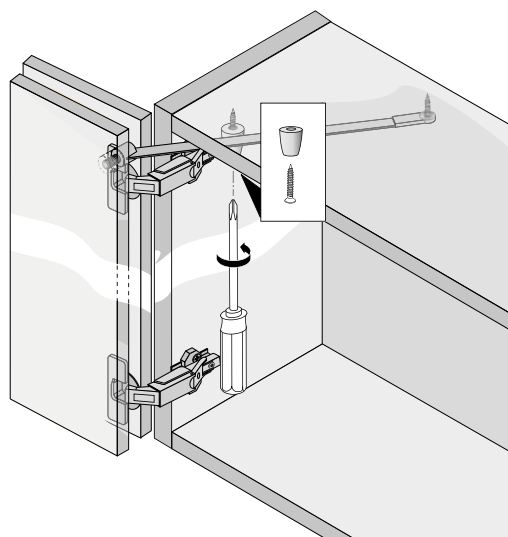
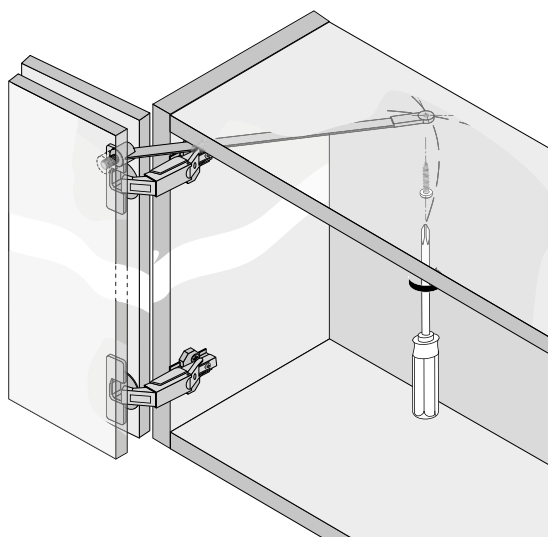
Installation door set



Folding door system

- ▶ WingLine 170 / Attached to the side
- ▶ Installation

Installing runner bar



Folding door system

- ▶ Wing 77 / freely moveable
- ▶ All the benefits at a glance



Fantastic flexibility. With Wing 77, you can produce cabinet fronts with two door leaves (no more than 25 kg each) or four door leaves (no more than 20 kg each). The clever part: the entire door set is free moving! Door sets can also be interlinked. Surprise your customers individually tailored folding door solutions for the bedroom or office. Wing 77 gives you the design flexibility to do so.



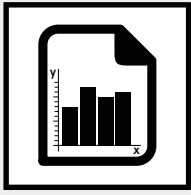
Leaves a good impression: Design flexibility with up to 4 door wings. No mounting to carcase side.



Tried and proven: sturdy runner profile on the top panel as well as bottom guide.

Folding door system

- ▶ Wing 77 / freely moveable
- ▶ Summary



Performance summary

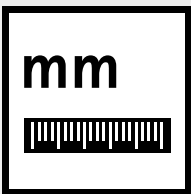
68 – 69

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



System components

70 – 71



Planning dimensions

72 – 73



Installation

74 – 76



Accessories

78 – 92



Technical information

- ▶ Calculating door weights
- ▶ Quality criteria

93 – 94

95

Folding door system

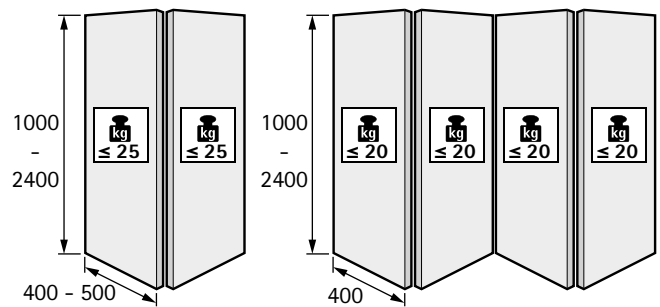


- ▶ Wing 77 / freely moveable
- ▶ Performance summary

Technical details in brief

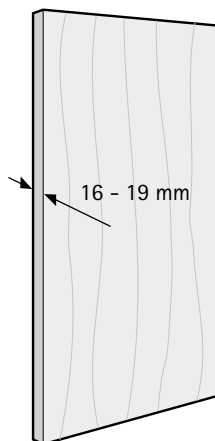
- ▶ Folding door system with 2 or 4 door wings
- ▶ Overlay door position
- ▶ For wooden doors
- ▶ Door wing weight up to 20 kg (25 kg) with 4 (2) door wings
- ▶ Door height up to 2400 mm
- ▶ Door wing width up to 400 mm (500 mm) with 4 (2) door wings
- ▶ Height adjustment +/- 3 mm
- ▶ Centre panels recessed 40 mm
- ▶ Tested with 40000 cycles

Door format and door weight

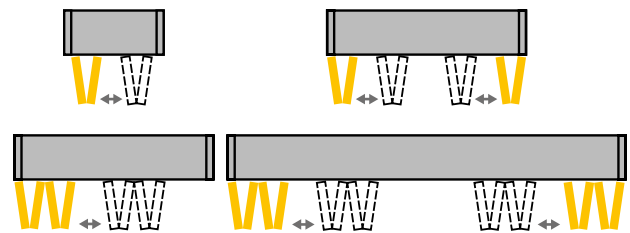


see pages 93 - 94

Door material



Number of door wings and door position

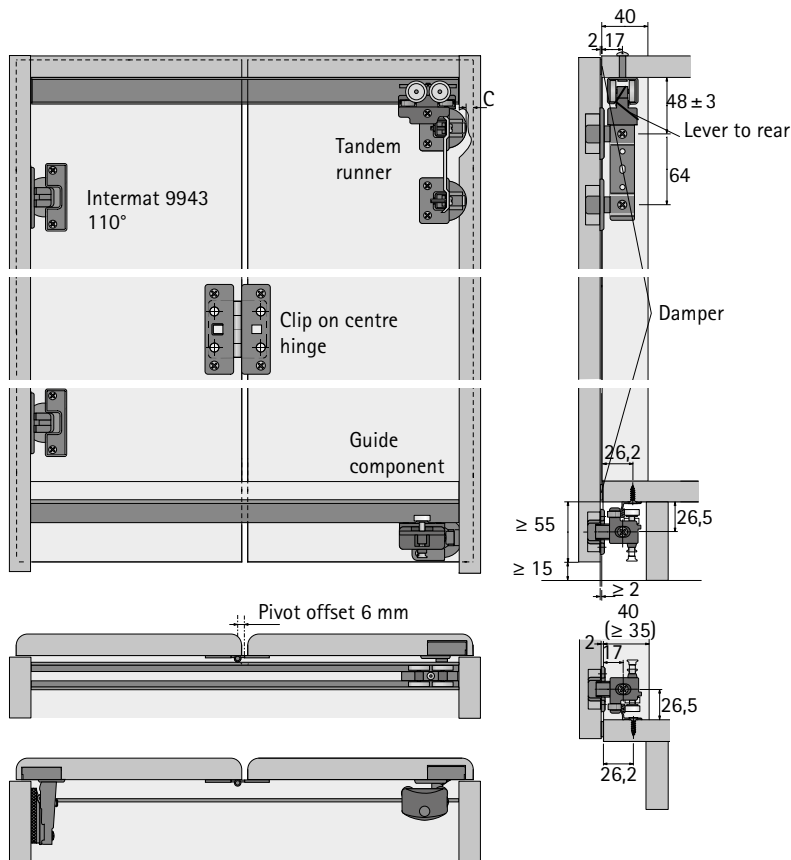


Folding door system

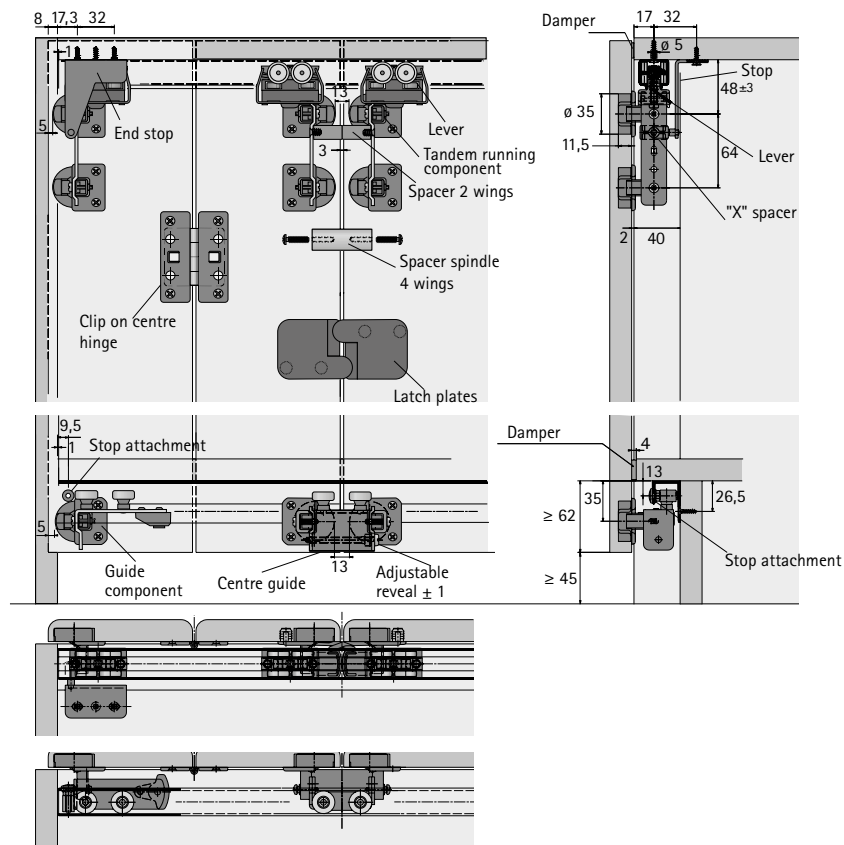
- ▶ Wing 77 / freely moveable
- ▶ Performance summary



Operating principle / 1 folding door with 2 wings



Operating principle / 1 folding door with 4 wings



Folding door system

- ▶ Wing 77 / freely moveable
- ▶ System components

Set 1 Wing 77



- ▶ Set contains all the parts required for 1 folding sliding door with 2 panels
- ▶ The inside carcase width of 800 mm should not be exceeded. The top panel must be designed so that it cannot sag by more than 1.5 mm under the weight of the folded doors.

Set comprises:

- ▶ 2 tandem running components for fast installation
- ▶ 2 brackets for running component with + / - 5 mm height adjustment capability
- ▶ 2 guide components
- ▶ 4 clip on centre hinges
- ▶ 4 spacers
- ▶ 4 end stops
- ▶ 4 noise absorbing felts (for damping doors against the carcase) for positioning at the top and bottom on each door wing
- ▶ Fixing material

Advice:

- ▶ Please order profiles separately

Order no.	PU
0 070 986	1 set

Set 2 Wing 77



- ▶ Set contains all the parts required for 1 folding sliding door with 4 panels
- ▶ The inside carcase width of 800 mm should not be exceeded. The top panel must be designed so that it cannot sag by more than 1.5 mm under the weight of the folded doors.

Set comprises:

- ▶ 4 tandem running components for fast installation
- ▶ 4 supports for running component with + / - 5 mm height adjustment capability
- ▶ 1 spacer spindle for tandem running component
- ▶ 3 guide components and centre guide component
- ▶ 2 latch plates
- ▶ 8 clip on centre hinges
- ▶ 4 spacers
- ▶ 4 end stops
- ▶ 8 noise absorbing felts (for damping doors against the carcase) for positioning at the top and bottom on each door wing
- ▶ Fixing material

Advice:

- ▶ Please order profiles separately

Order no.	PU
0 070 987	1 set

Folding door system

- ▶ Wing 77 / freely moveable
- ▶ System components



Guide profile



- ▶ For screwing on, screw on position predrilled
- ▶ Length 3200 mm
- ▶ Aluminium, silver anodized

Order no.	PU
0 070 985	1/4 ea.

Runner profile



- ▶ For screwing on, screw on positions predrilled
- ▶ Length 3200 mm
- ▶ Aluminium, silver anodized

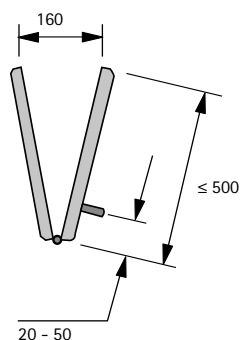
Order no.	PU
9 193 574	1/4 ea.

Folding door system

- ▶ Wing 77 / freely moveable
- ▶ Planning dimensions

Installation dimensions for Wing 77 for 1 folding door with 2 wings

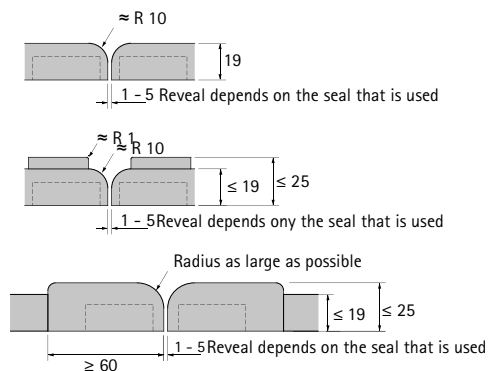
2-wing door set



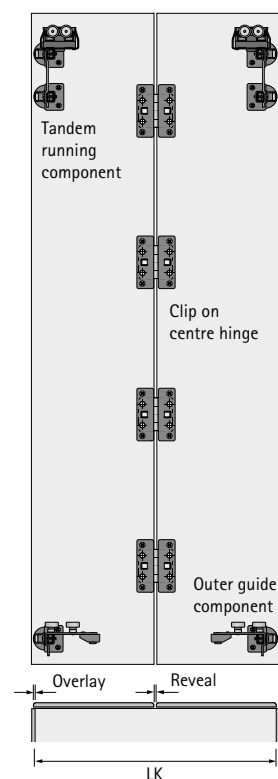
2-wing folding door

Door width 1000 mm max.
Door weight / wing 25 kg max.
Door wing height 2400 mm max.

Door wing contours and reveals (as finger protection)



2-wing folding door



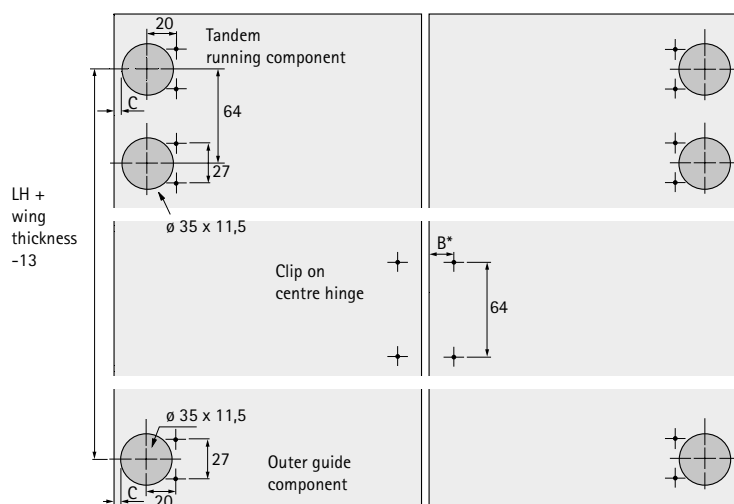
Calculation of door width / door wing width

Door width = inside carcase width + (2 x overlay*)

Door wing width = (inside carcase width - 1 x reveal + 2 x overlay*) ÷ 2

* Overlay: max. 15 mm, C dimension 6 mm

Drilling patterns



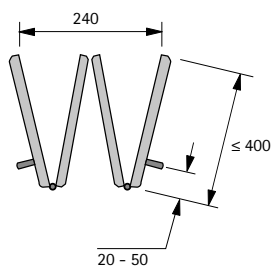
Drill hole spacing * mm	16,5	17	17,5	18	18,5
Reveal mm	5	4	3	2	1

Folding door system

- ▶ Wing 77 / freely moveable
- ▶ Planning dimensions

Installation dimensions for Wing 77 for 1 folding door with 4 leaves

4-wing door set



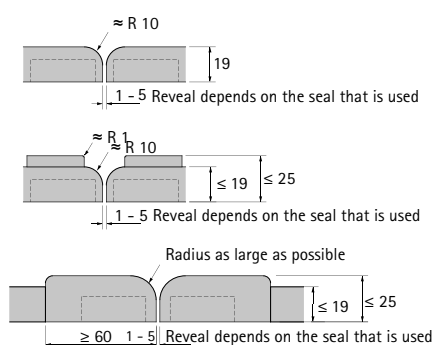
4-wing folding door

Door width 1600 mm max.

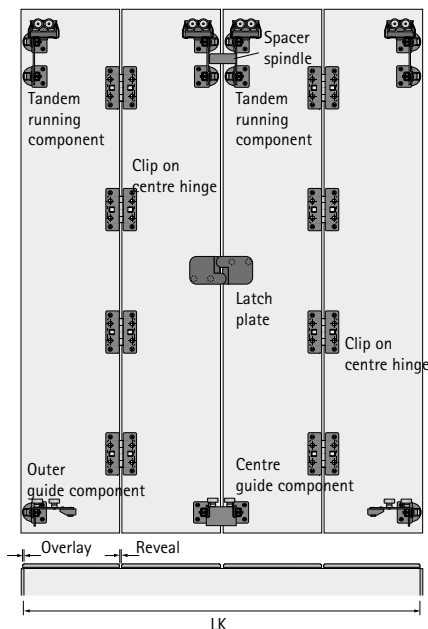
Door weight / wing 20 kg max.

Door wing height 2400 mm max.

Door wing contours and reveals (as finger protection)



Folding door with 4 wings



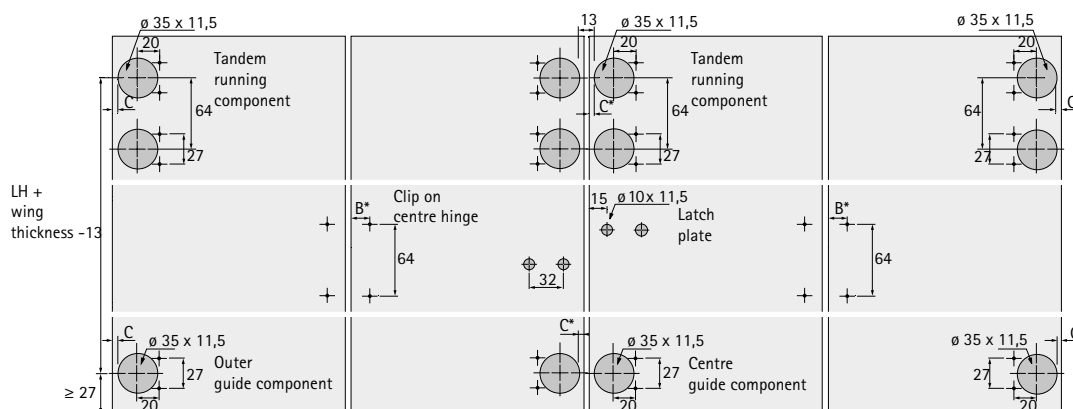
Calculation of door width / door wing width

Door width = inside carcase width + (2 x overlay*)

Door wing width = (inside carcase width - 3 x reveal + 2 x overlay*) ÷ 2

* Overlay: max. 15 mm, C dimension 6 mm

Drilling patterns



* B drill hole spacing mm 16,5 17 17,5 18 18,5

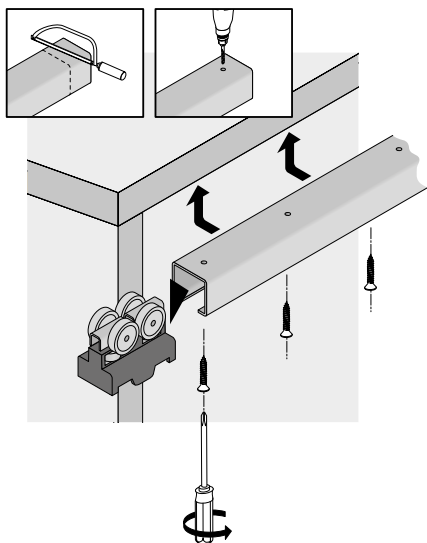
* C drill hole spacing mm 4 4,5 5 5,5 6

Reveal mm 5 4 3 2 1

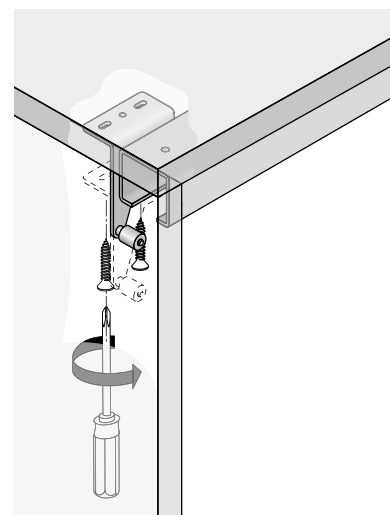
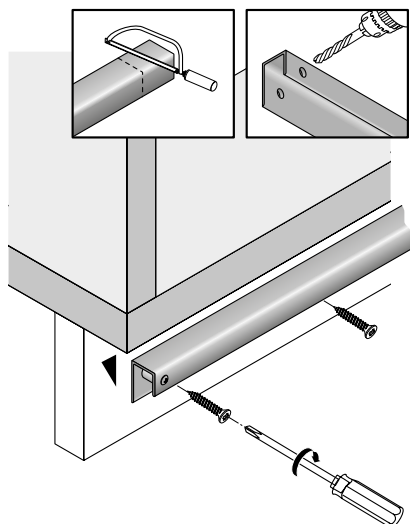
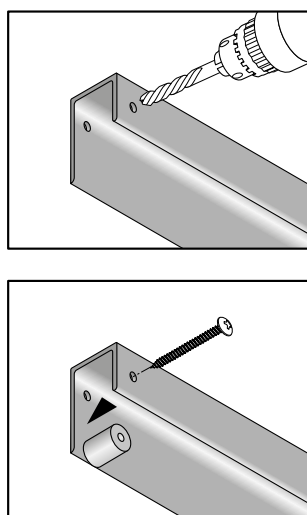
Folding door system

- ▶ Wing 77 / freely moveable
- ▶ Installation

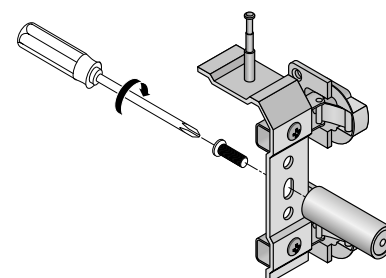
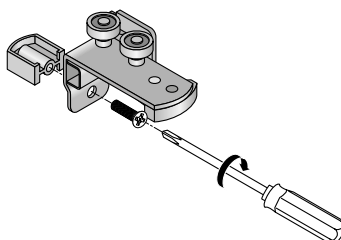
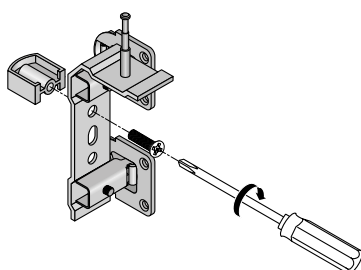
Installation runner profile



Installation runner profile and end stop



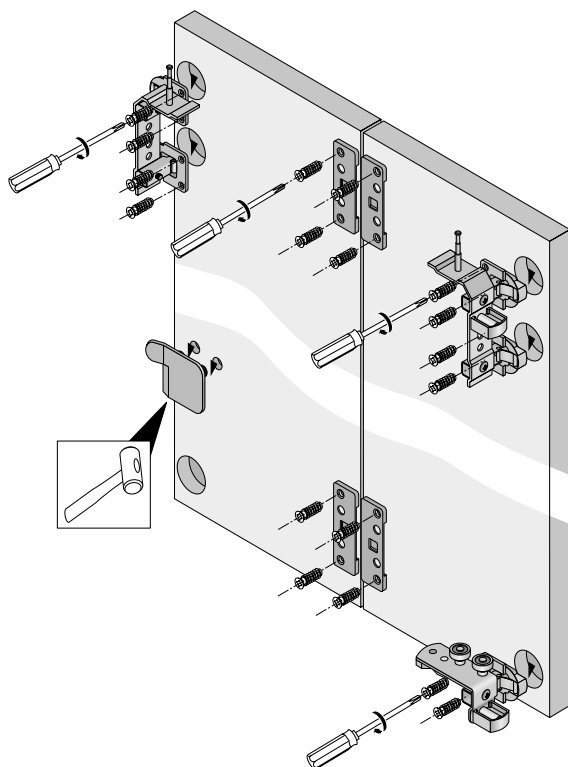
Installation spacers and spacer spindle



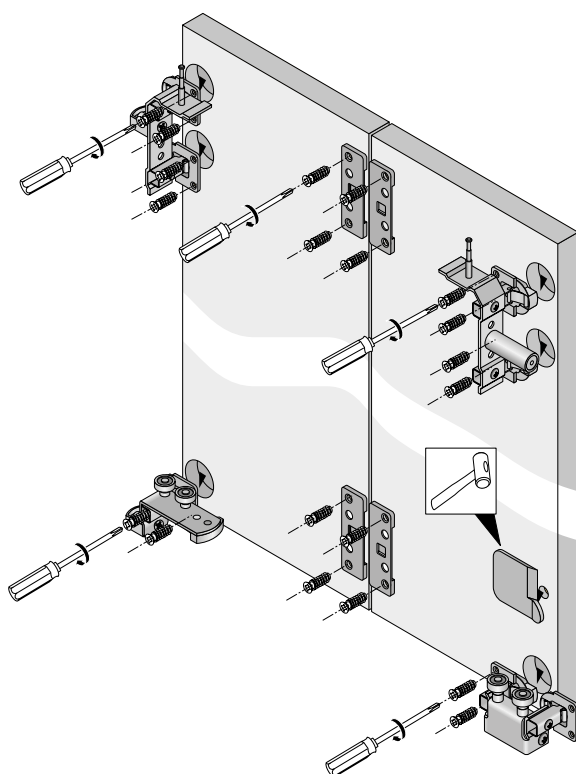
Folding door system

- ▶ Wing 77 / freely moveable
- ▶ Installation

Preparing door set, left



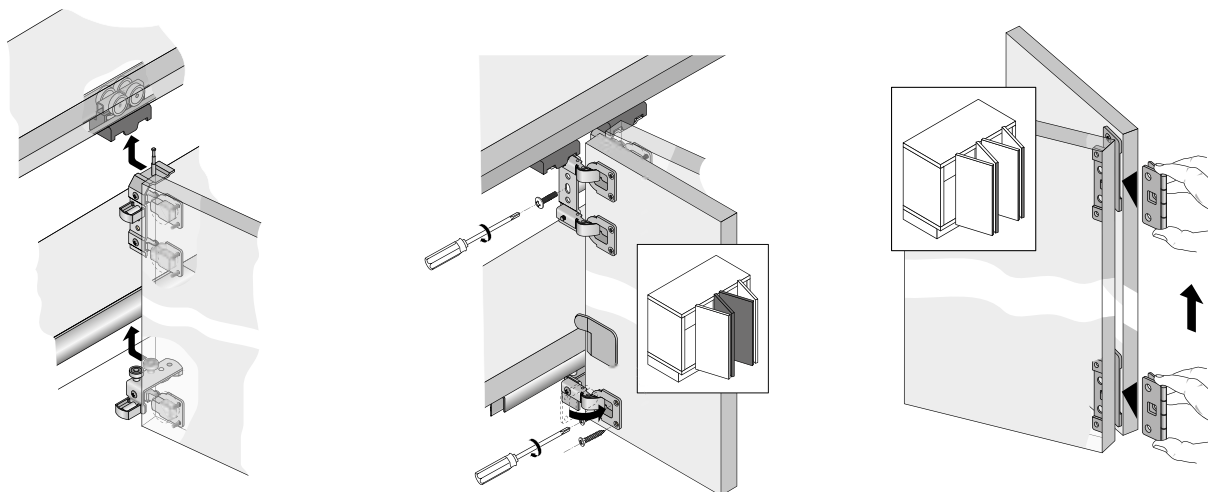
Preparing door set, right



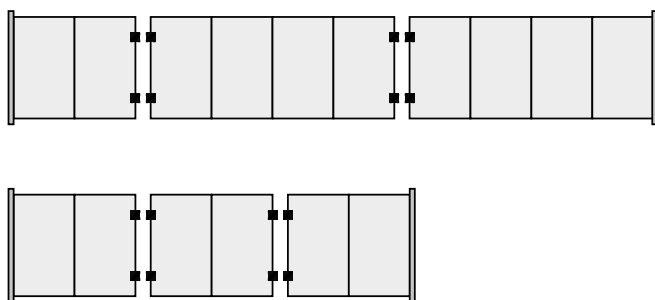
Folding door system

- ▶ Wing 77 / freely moveable
- ▶ Installation

Installation door sets

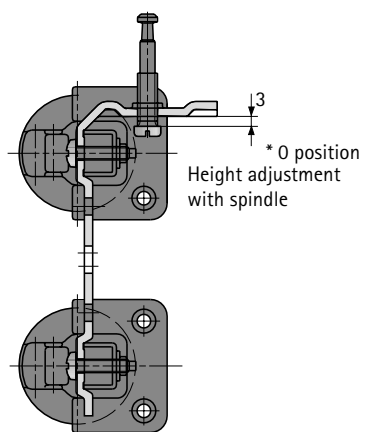


Door combinations



Installation spacers X (reveal is not adjustable) on the running and guide components permits door combinations on uninterrupted runner and guide profiles.

Installation information



Note: installation and removal are only possible in 0-position, i.e. with 3 mm clearance

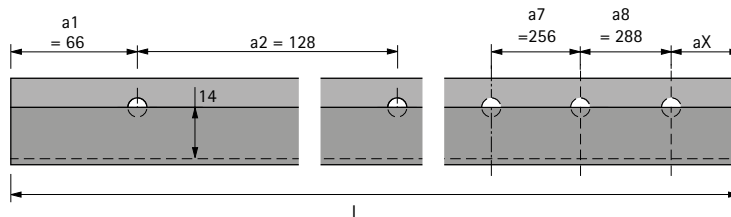
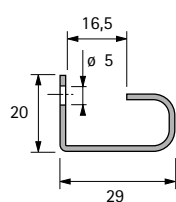
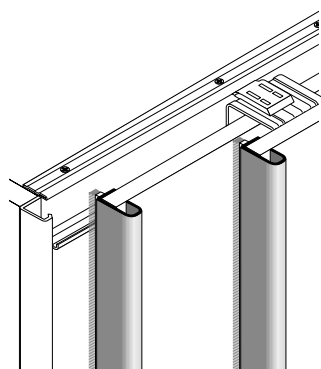
Door profile



- Predrilled
- For door thicknesses of 15-16 mm
- Customised lengths on request

Material	Finish	Length mm	Quantity for 2 door	Quantity for 3 doors	Order no.	PU
Steel	silver, coated	individual	3	4	LA 10984	100 ea.
Steel	silver, coated	2500	3	4	9 206 249	1 ea.
Aluminium	silver anodized	individual	3	4	LA 10333	100 ea.
Aluminium	silver anodized	2050	3	4	9 117 416	1 ea.
Aluminium	silver anodized	2500	3	4	9 130 038	1 ea.

Installation / dimensional drawing



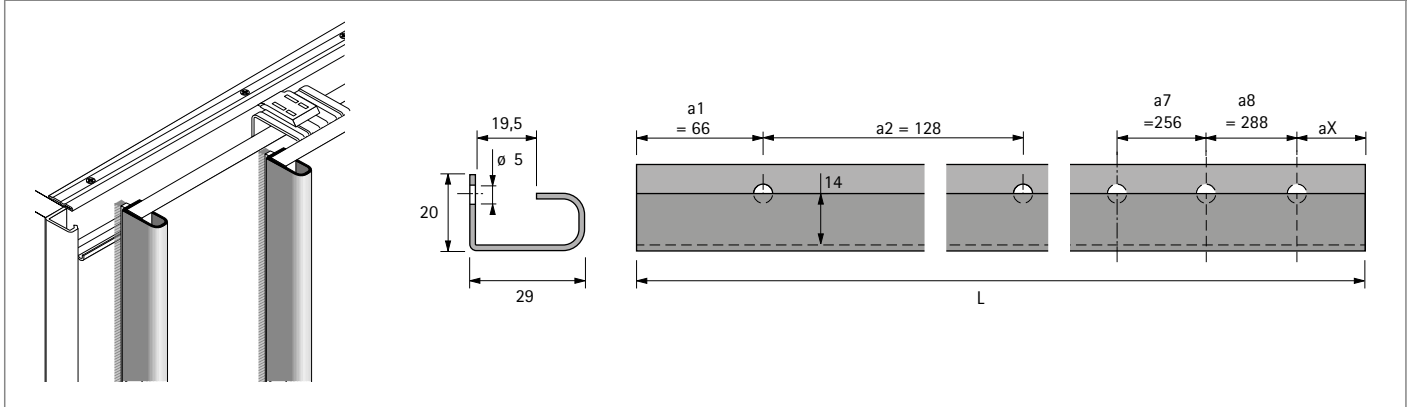
Door profile



- Predrilled
- For door thicknesses of 18-19 mm
- Customised lengths on request

Material	Finish	Length mm	Quantity for 2 door	Quantity for 3 doors	Order no.	PU
Steel	silver, coated	individual	3	4	LA 10983	100 ea.
Steel	silver, coated	2500	3	4	9 206 250	1 ea.
Aluminium	silver anodized	individual	3	4	LA 10441	100 ea.
Aluminium	silver anodized	2050	3	4	9 136 107	1 ea.
Aluminium	silver anodized	2500	3	4	9 136 121	1 ea.

Installation / dimensional drawing



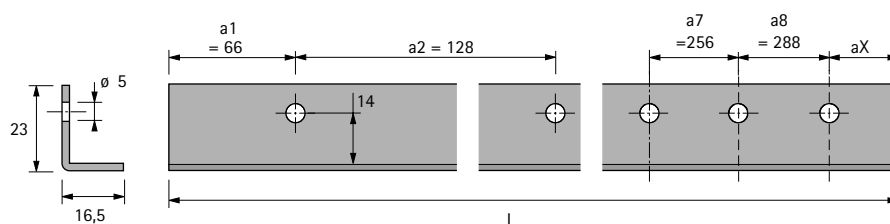
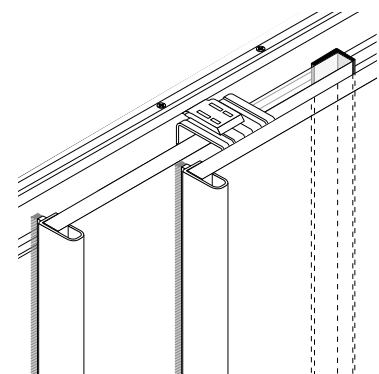
Door end profile, L shaped



- Predrilled
- For door thicknesses of 15-16 mm
- Customised lengths on request

Material	Finish	Length mm	Quantity for 2 door	Order no.	PU
Steel	silver, galvanised	individual	1	LA 10987	100 ea.
Steel	silver, galvanised	2500	1	9 206 307	1 ea.
Aluminium	silver anodized	individual	1	LA 10336	100 ea.
Aluminium	silver anodized	2050	1	9 117 418	1 ea.
Aluminium	silver anodized	2500	1	9 136 123	1 ea.

Installation / dimensional drawing



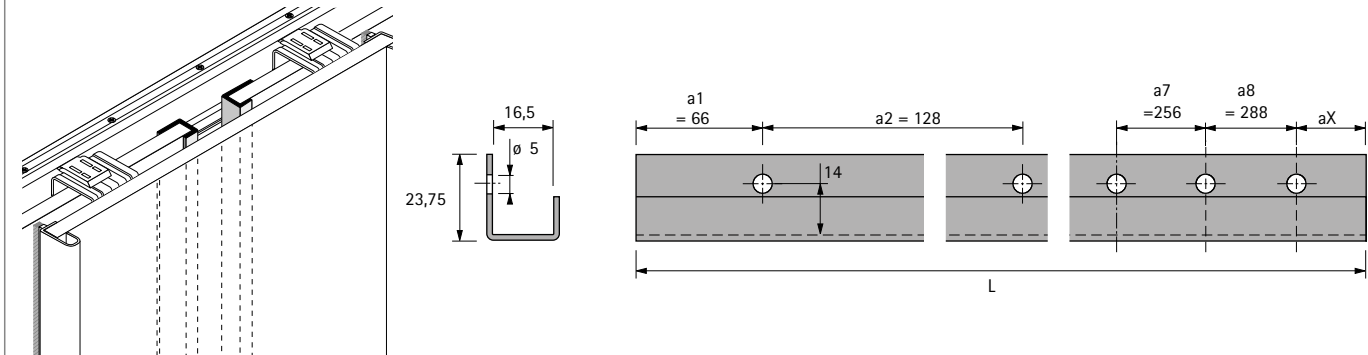
Door end profile, U shaped



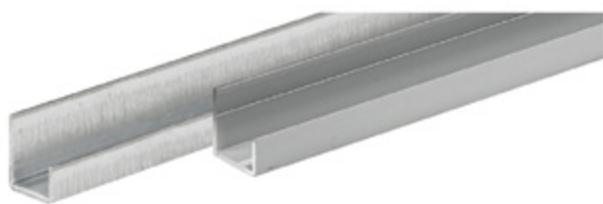
- Predrilled
- For door thicknesses of 15-16 mm
- Customised lengths on request

Material	Finish	Length mm	Quantity for 3 doors	Order no.	PU
Steel	silver, coated	individual	2	LA 10982	100 ea.
Steel	silver, coated	2500	2	9 206 252	1 ea.
Aluminium	silver anodized	individual	2	LA 10337	100 ea.
Aluminium	silver anodized	2050	2	9 117 420	1 ea.
Aluminium	silver anodized	2500	2	9 130 062	1 ea.

Installation / dimensional drawing



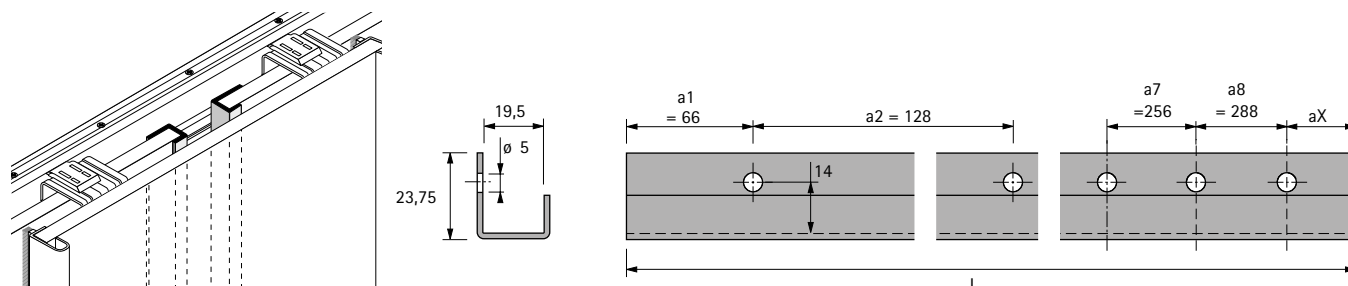
Door end profile, U shaped



- Predrilled
- For door thicknesses of 18-19 mm
- Customised lengths on request

Material	Finish	Length mm	Quantity for 3 doors	Order no.	PU
Steel	silver, coated	individual	2	LA 10979	100 ea.
Steel	silver, coated	2500	2	9 206 284	1 ea.
Aluminium	silver anodized	individual	2	LA 10442	100 ea.
Aluminium	silver anodized	2050	2	9 136 108	1 ea.
Aluminium	silver anodized	2500	2	9 136 122	1 ea.

Installation / dimensional drawing



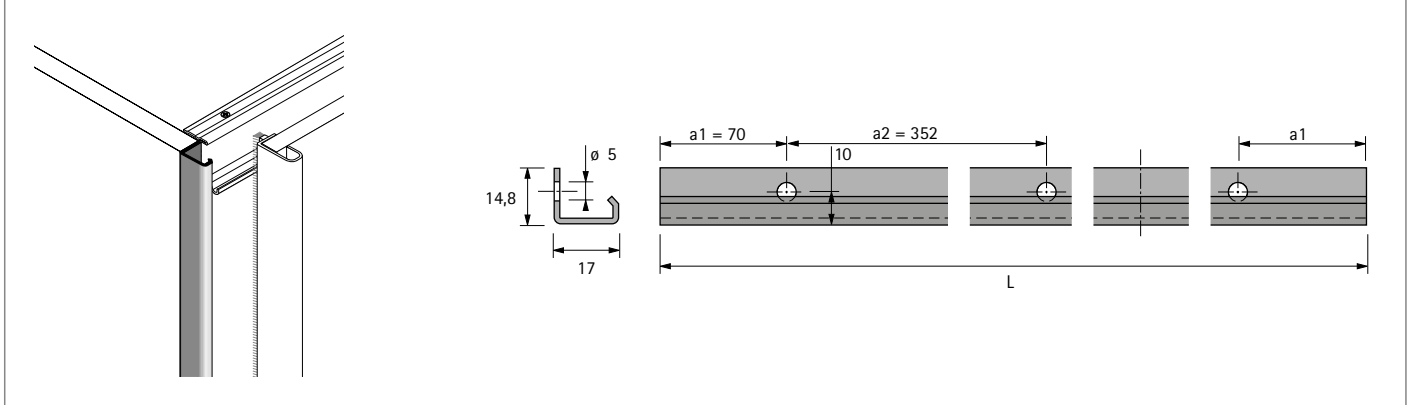
Carcase end profile for rear most door



- Predrilled
- Customised lengths on request

Material	Finish	Length mm	Quantity for 2 door	Quantity for 3 doors	Order no.	PU
Steel	silver, coated	individual	1	2	LA 10980	100 ea.
Steel	silver, coated	2500	1	2	9 206 283	1 ea.
Aluminium	silver anodized	individual	1	2	LA 10335	100 ea.
Aluminium	silver anodized	2100	1	2	9 117 462	1 ea.
Aluminium	silver anodized	2500	1	2	9 146 622	1 ea.

Installation / dimensional drawing



Carcase end profile for front most door



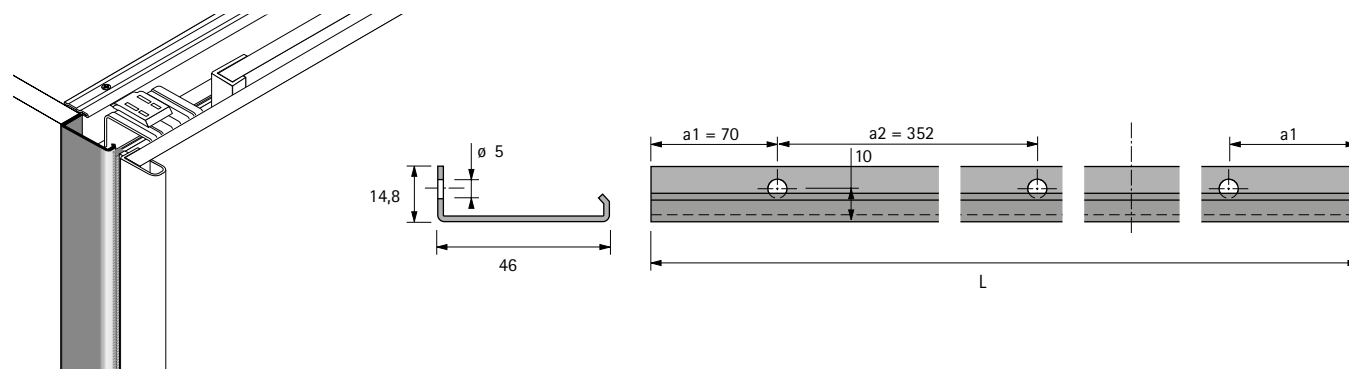
► Predrilled

Advice:

► Customised lengths on request

Material	Finish	Length mm	Quantity for 2 door	Order no.	PU
Steel	silver, coated	individual	1	LA 10978	100 ea.
Steel	silver, coated	2500	1	9 206 282	1 ea.
Aluminium	silver anodized	individual	1	LA 10334	100 ea.
Aluminium	silver anodized	2100	1	9 117 463	1 ea.
Aluminium	silver anodized	2500	1	9 146 624	1 ea.

Installation / dimensional drawing



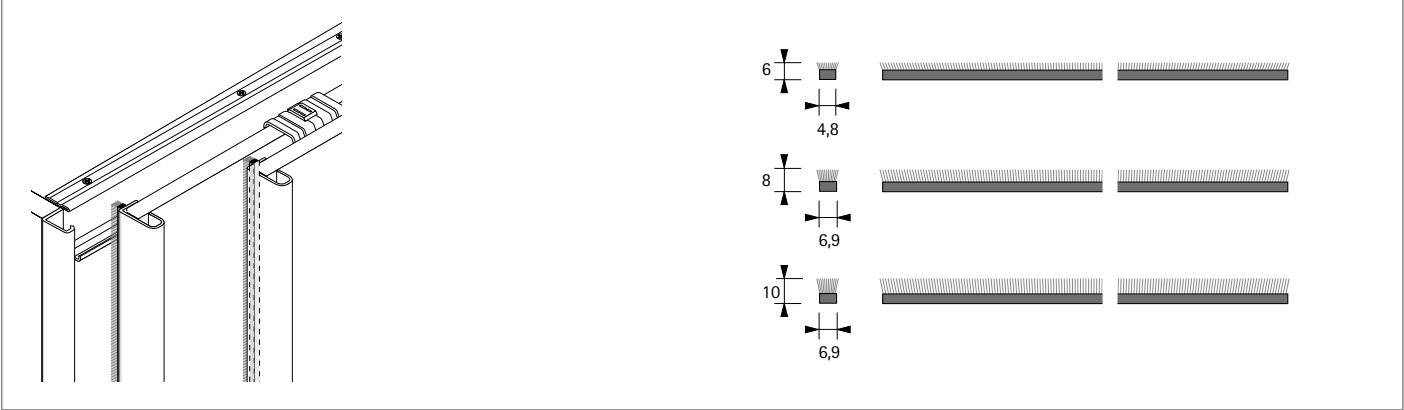
Brush sealing strip



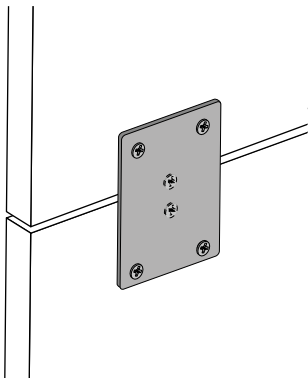
- For dust proof covers
- Length 2500 mm
- Self adhesive
- Grey

Height mm	Quantity for 2 door	Quantity for 3 doors	Order no.	PU
6	3	4	9 193 423	1 ea.
8	3	4	9 200 386	1 ea.
10	3	4	9 200 387	1 ea.

Installation / dimensional drawing



Connecting strap



- For connecting segmented sliding doors
- Galvanised steel

Order no.	PU
9 117 506	1 ea.
9 110 132	300 ea.

Adjustment fitting, aluminium



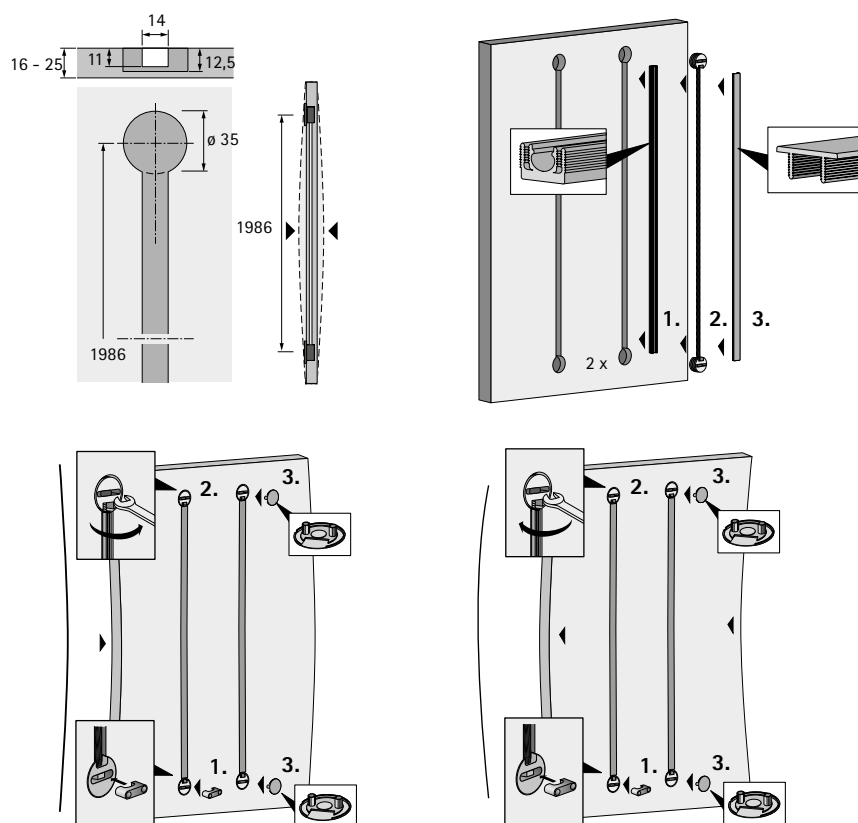
- For straightening distorted furniture doors
- Can also be used as a precautionary measure to prevent doors from warping
- For door/front thicknesses of 16 - 25 mm
- Maximum door / front panel height 2600 mm
- Length of threaded rod 2000 mm, can be shortened as required
- Fast, screwless installation and adjustment requiring just one hand
- Patented system with encapsulated threaded rod
- For silent door / front movement
- Covers for \varnothing 35 mm drillings, plastic, silver
- Covers for groove, aluminium, silver anodized
- The adjustment fitting can also be used horizontally
- It is recommended that 2 vertical adjustment fittings are installed near the outer edge. On large, wide doors, 2 horizontal fittings can be used instead or in addition

Set comprises:

- 2 adjustment fittings

Order no.	PU
9 117 303	1 set

Technical information



Adjustment fitting, plastic



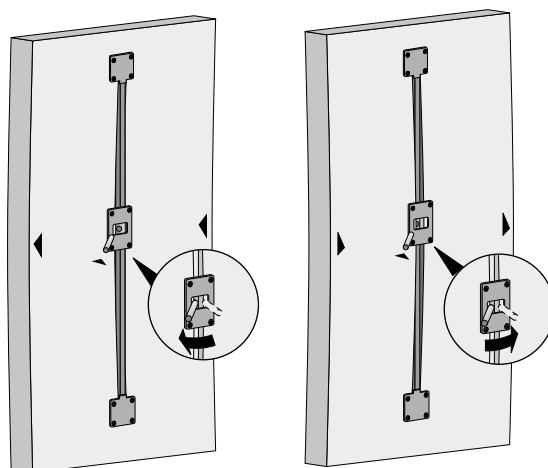
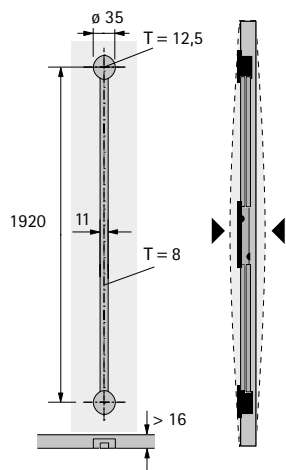
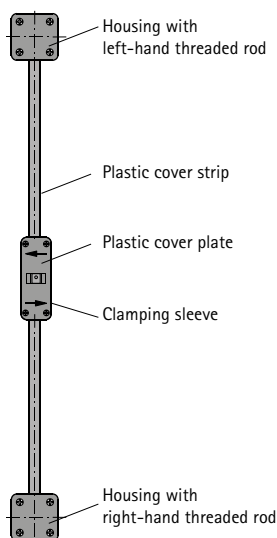
- For straightening distorted furniture doors
- Can also be used as a precautionary measure to prevent doors from warping
- For door / front panel thicknesses from 16 mm
- Maximum door / front panel height 2600 mm
- Installing the fitting is simple and straightforward: a pair of threaded rods, one with a right hand thread and one with a left-hand thread, are fed into a clamping sleeve.
- The threaded rods are each additionally supported in a housing that slots into a 35 mm drilling where it is screwed into place.
- Turning the clamping sleeve produces tensile or compressive force that corrects warping or bowing.
- The housing, clamping sleeve and threaded rods are covered to prevent damage to wardrobe and laundry
- The adjustment fitting can also be used horizontally
- It is recommended that 2 vertical adjustment fittings are installed near the outer edge. On large, wide doors, 2 horizontal fittings can be used instead or in addition

Set comprises:

- 1 housing with right hand threaded rod
- 1 housing with left-hand threaded rod
- 1 clamping sleeve
- 1 plastic cover plate
- 2 plastic cover strips
- 2 retainers for cover strips

Order no.	PU
0 045 198	2 set
0 073 347	50 set

Technical information



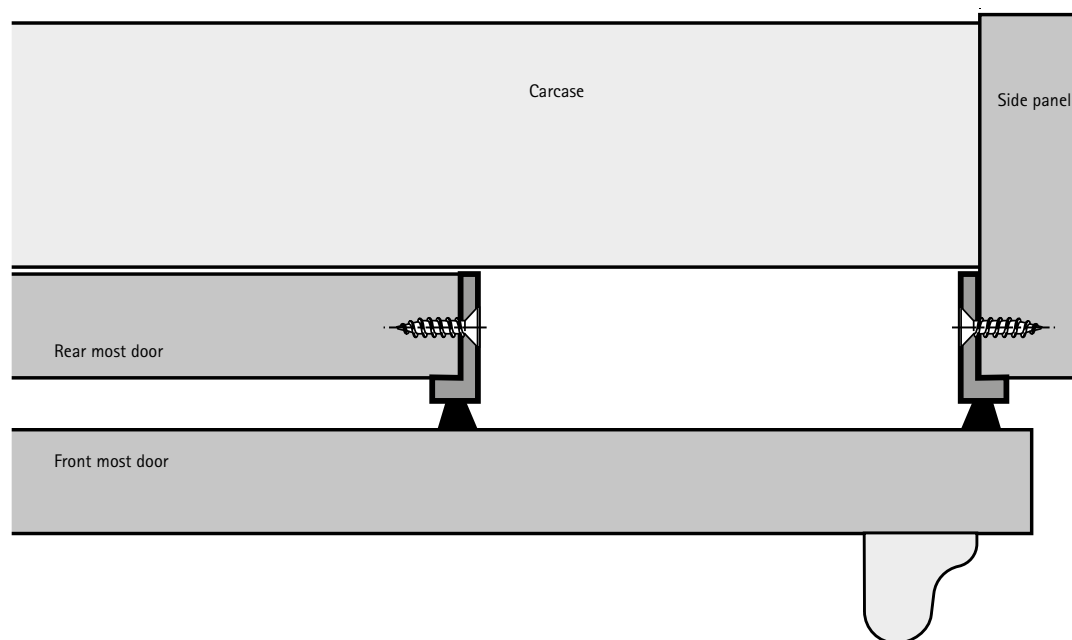
Brush sealing strip



- For dust proof seals
- Length 2500 mm
- Height 27 mm
- Plastic, brown

Order no.	PU
0 026 453	1/40 ea.

Technical information



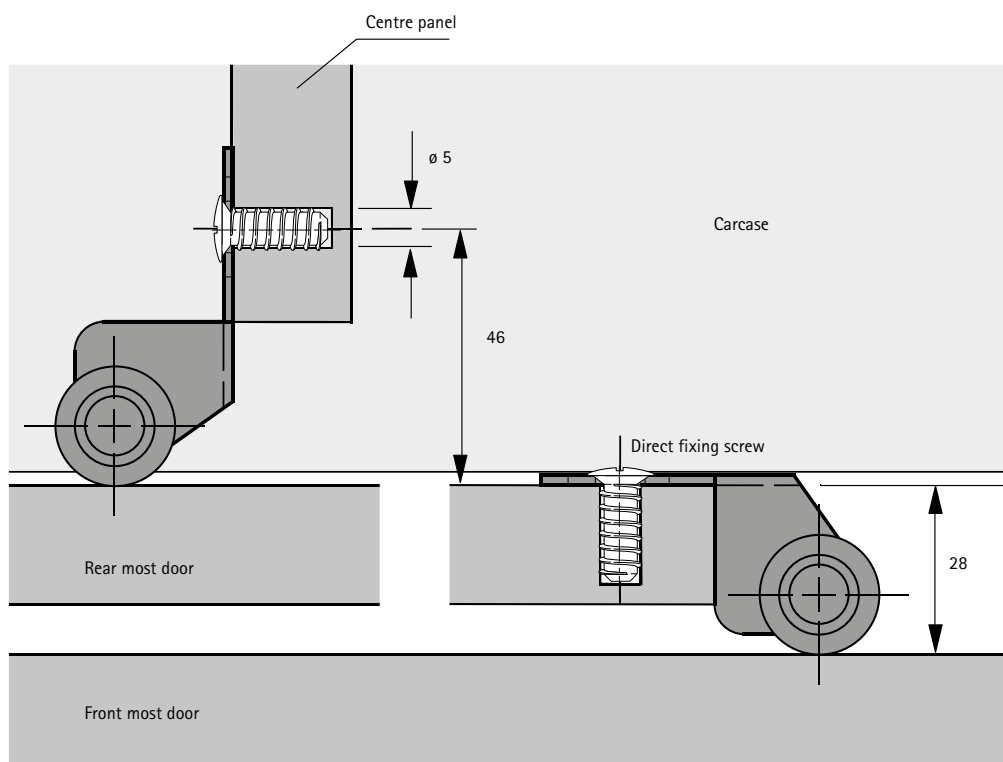
Spacer roller



- For tall sliding doors
- Galvanised steel

Order no.	PU
0 027 740	1/10 ea.
1 006 891	400 ea.

Technical information



Sloping ceiling adapter



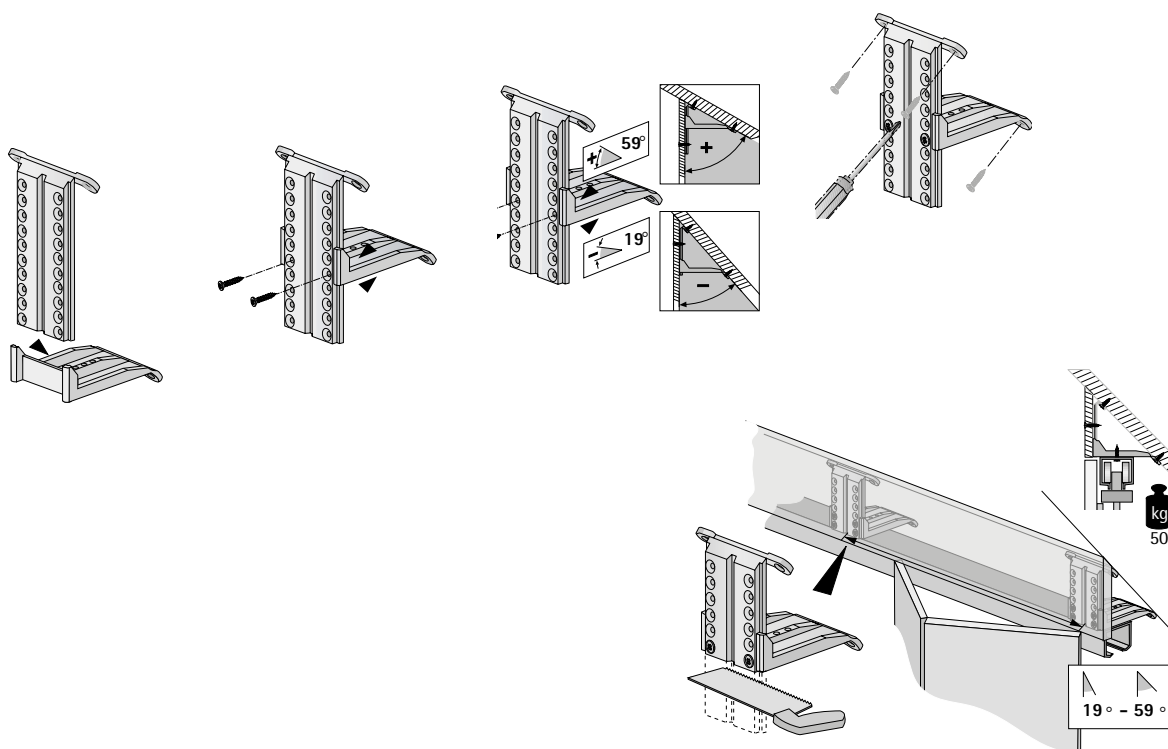
- For angles of 19° – 59°
- Loading capacity max. 50 kg
- Height 125 mm
- Depth 94 mm
- Width 57 mm
- White plastic

Set comprises:

- 2 sloping ceiling adapters

Order no.	PU
0 045 319	1/5 set

Technical information



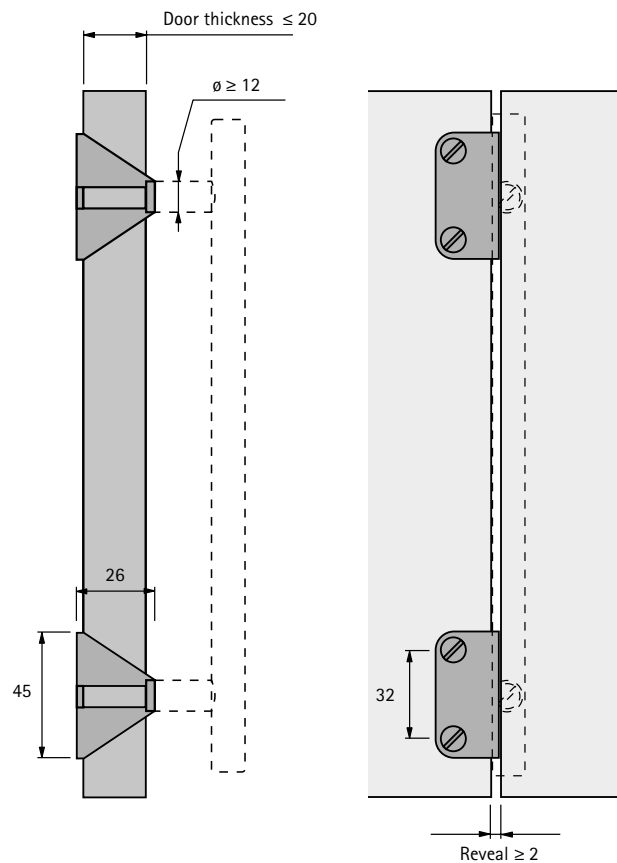
Handle adapter for sliding / folding sliding doors



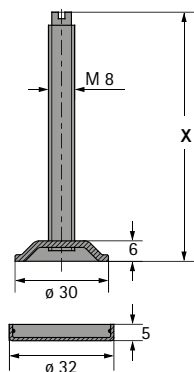
- The adapter can be used for all handle solutions on door thicknesses of up to 20 mm and a handle mounting surface greater than $\varnothing 12$ mm.

Finish	Order no.	PU
Matt chrome plated	0 115 365	1/100 ea.
Matt nickel plated	0 115 366	1/100 ea.

Technical information



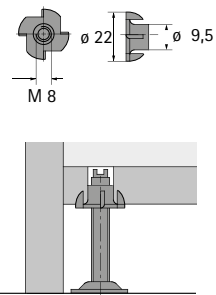
Leveller screw with M8 thread



- With foot cap
- Galvanised steel / clear plastic

Dimension X mm	Order no.	PU
50	0 047 637	1/50 ea.
60	0 047 638	1/50 ea.
70	0 047 639	1/50 ea.
80	0 047 640	1/50 ea.
100	0 047 642	1/50 ea.

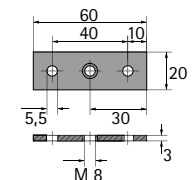
Captive nut with M8 thread



- Steel, bright

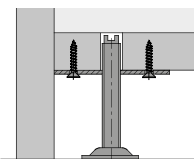
Order no.	PU
0 047 643	1/50 ea.

Supporting plate with M8 thread

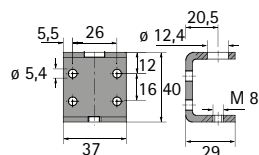


- Galvanised steel

Order no.	PU
0 047 645	1/50 ea.

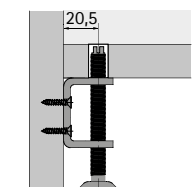


Metal bracket with M8 thread



- Galvanised steel

Order no.	PU
0 047 644	1/50 ea.
0 071 870	1/250 ea.



Folding door systems

- Technical information
- Calculating door weights

Weight table for chipboard 19 mm

Door weight in kg (density = 700 kg/m³)

Door height mm	Door width mm														
	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
300	1,2	1,6	2,0	2,4	2,8	3,2	3,6	4,0	4,4	4,8	5,2	5,6	6,4	7,2	8,0
400	1,6	2,1	2,7	3,2	3,7	4,3	4,8	5,3	5,9	6,4	6,9	7,5	8,5	9,6	10,6
500	2,0	2,7	3,3	4,0	4,7	5,3	6,0	6,7	7,3	8,0	8,7	9,3	10,6	12,0	13,3
600	2,4	3,2	4,0	4,8	5,6	6,4	7,2	8,0	8,8	9,6	10,4	11,2	12,8	14,4	16,0
700	2,8	3,7	4,7	5,6	6,6	7,5	8,4	9,3	10,2	11,2	12,1	13,0	14,9	16,8	18,6
800	3,2	4,3	5,3	6,4	7,5	8,5	9,6	10,6	11,7	12,8	13,8	14,9	17,0	19,2	21,3
900	3,6	4,8	6,0	7,2	8,4	9,6	10,8	12,0	13,2	14,4	15,6	16,8	19,2	21,6	23,9
1000	4,0	5,3	6,7	8,0	9,3	10,7	12,0	13,3	14,6	16,0	17,3	18,6	21,3	23,9	26,6
1100	4,4	5,9	7,3	8,8	10,2	11,7	13,2	14,6	16,1	17,6	19,0	20,5	23,4	26,3	29,3
1200	4,8	6,4	8,0	9,6	11,2	12,8	14,4	16,0	17,6	19,2	20,8	22,3	25,5	28,7	31,9
1300	5,2	6,9	8,7	10,4	12,1	13,8	15,6	17,3	19,0	20,8	22,5	24,2	27,7	31,1	34,6
1400	5,6	7,5	9,3	11,2	13,0	14,9	16,8	18,6	20,5	22,3	24,2	26,1	29,8	33,5	37,2
1600	6,4	8,5	10,7	12,8	15,0	17,0	19,2	21,3	23,4	25,6	27,7	29,8	34,1	38,3	42,6
1800	7,2	9,6	12,0	14,4	16,8	19,2	21,6	24,0	26,3	28,7	31,1	33,5	38,3	43,1	47,9
2000	8,0	10,6	13,3	16,0	18,6	21,3	23,9	26,6	29,3	31,9	34,6	37,2	42,6	47,9	53,2
2200	8,8	11,7	14,6	17,6	20,5	23,4	26,3	29,3	32,2	35,1	38,0	41,0	46,8	52,7	58,5
2400	9,6	12,8	16,0	19,2	22,3	25,5	28,7	31,9	35,1	38,3	41,5	44,7	51,1	57,5	63,9
2600	10,4	13,8	17,3	20,8	24,2	27,7	31,1	34,6	38,0	41,5	45,0	48,4	55,3	62,2	69,2

Weight table for MDF 19 mm

Door weight in kg (density = 900 kg/m³)

Door height mm	Door width mm														
	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800	2000
300	1,5	2,1	2,6	3,1	3,6	4,1	4,6	5,1	5,6	6,2	6,7	7,2	8,2	9,2	10,3
400	2,1	2,7	3,4	4,1	4,8	5,5	6,2	6,8	7,5	8,2	8,9	9,6	10,9	12,3	13,7
500	2,6	3,4	4,3	5,1	6,0	6,8	7,7	8,6	9,4	10,3	11,1	12,0	13,7	15,4	17,1
600	3,1	4,1	5,1	6,2	7,2	8,2	9,2	10,3	11,3	12,3	13,3	14,4	16,4	18,5	20,5
700	3,6	4,8	6,0	7,2	8,4	9,6	10,8	12,0	13,2	14,4	15,6	16,8	19,2	21,6	23,9
800	4,1	5,5	6,8	8,2	9,6	10,9	12,3	13,7	15,1	16,4	17,8	19,2	21,9	24,6	27,4
900	4,6	6,2	7,7	9,2	10,8	12,3	13,9	15,4	16,9	18,5	20,0	21,6	24,6	27,7	30,8
1000	5,1	6,8	8,6	10,3	12,0	13,7	15,4	17,1	18,8	20,5	22,2	23,9	27,4	30,8	34,2
1100	5,6	7,5	9,4	11,3	13,2	15,1	16,9	18,8	20,7	22,6	24,5	26,3	30,1	32,9	37,6
1200	6,2	8,2	10,3	12,3	14,4	16,4	18,5	20,5	22,6	24,6	26,7	28,7	32,8	36,9	41,0
1300	6,7	8,9	11,1	13,3	15,6	17,8	20,0	22,2	24,5	26,7	28,9	31,1	35,6	40,0	44,5
1400	7,2	9,6	12,0	14,4	16,8	19,2	21,6	23,9	26,3	28,7	31,1	33,5	38,3	43,1	47,9
1600	8,2	10,9	13,7	16,4	19,2	21,9	24,6	27,4	30,1	32,8	35,6	38,3	43,8	49,3	54,7
1800	9,2	12,3	15,4	18,5	21,6	24,6	27,7	30,8	33,9	36,9	40,0	43,1	49,3	55,4	61,6
2000	10,3	13,7	17,1	20,5	23,9	27,4	30,8	34,2	37,6	41,0	44,5	47,9	54,7	61,6	68,4
2200	11,3	15,5	18,8	22,6	26,3	30,1	33,9	37,6	41,4	45,1	48,9	52,7	60,2	67,7	75,2
2400	12,3	16,4	20,5	24,6	28,7	32,8	36,9	41,0	45,1	49,3	53,4	57,5	65,7	73,9	82,1
2600	13,3	17,8	22,2	26,7	31,1	35,6	40,0	44,5	48,9	53,4	57,8	62,2	71,1	80,0	88,9

Folding door systems

- Technical information
- Calculating door weights

Adjustment to different material thicknesses

The table entries refer to 19 mm thick material.
The table entries must be multiplied by a factor in order to adjust to material of different thickness.

Material thickness mm	Factor
15	0,79
16	0,84
18	0,95
19	1,00
20	1,05
22	1,16
23	1,21
26	1,37
29	1,53

Formula for conversion

Door weight = weight for door in thickness of 19 mm from table above x factor

Example

Chipboard door

H x W x D = 2000 x 1800 x 16

Weight shown in table for this door size, but material in a thickness of 19 mm = 47.9 kg

Convert to 16 mm door thickness using factor of 0.84 as shown in table on left

Door weight = 47.9 kg x 0.84 = 40.2 kg

Calculating weights of doors in alternative door materials

Density of various materials in kg/m³

Material	Density kg/m ³
Acrylic glass	1200
Aluminium	2700
Balsa wood	120
Concrete	2400
Lead	11300
Iron	7800
Gypsum plasterboard	900
Glass	2600
Hardboard	1000
Hardwood, wet (beech)	900
Hardwood, dry (beech)	800
Cork	300

To calculate the weight of doors in alternative door materials, the specific density of the door material must be taken into consideration.

Example

Door made of acrylic glass with a density of 1200 kg/m³

Door height: 2000 mm, door width: 1800 mm, material thickness: 6 mm

$$\begin{array}{c} \text{Door weight [kg]} \\ 25,9 \text{ kg} \end{array} = \begin{array}{c} \text{Height [m]} \\ 2 \end{array} \times \begin{array}{c} \text{Width [m]} \\ 1,8 \end{array} \times \begin{array}{c} \text{Material thickness [m]} \\ 0,006 \end{array} \times \begin{array}{c} \text{Density [kg/m}^3\text{]} \\ 1200 \end{array}$$

Folding door systems

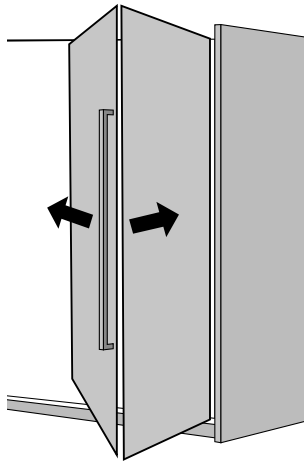
- Technical information
- Quality criteria

Quality that meets all the demands

The quality of the sliding door systems is monitored continuously. Hettich fittings comply with the national and international quality standards of the markets our customers operate in. The diagrams below show some of the tests to which Hettich fittings are subjected.

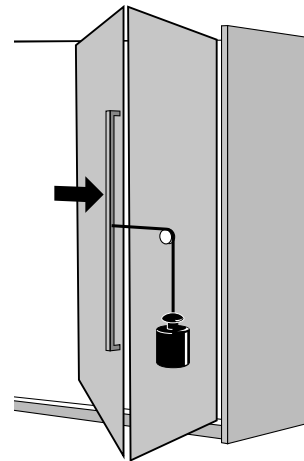
Endurance test

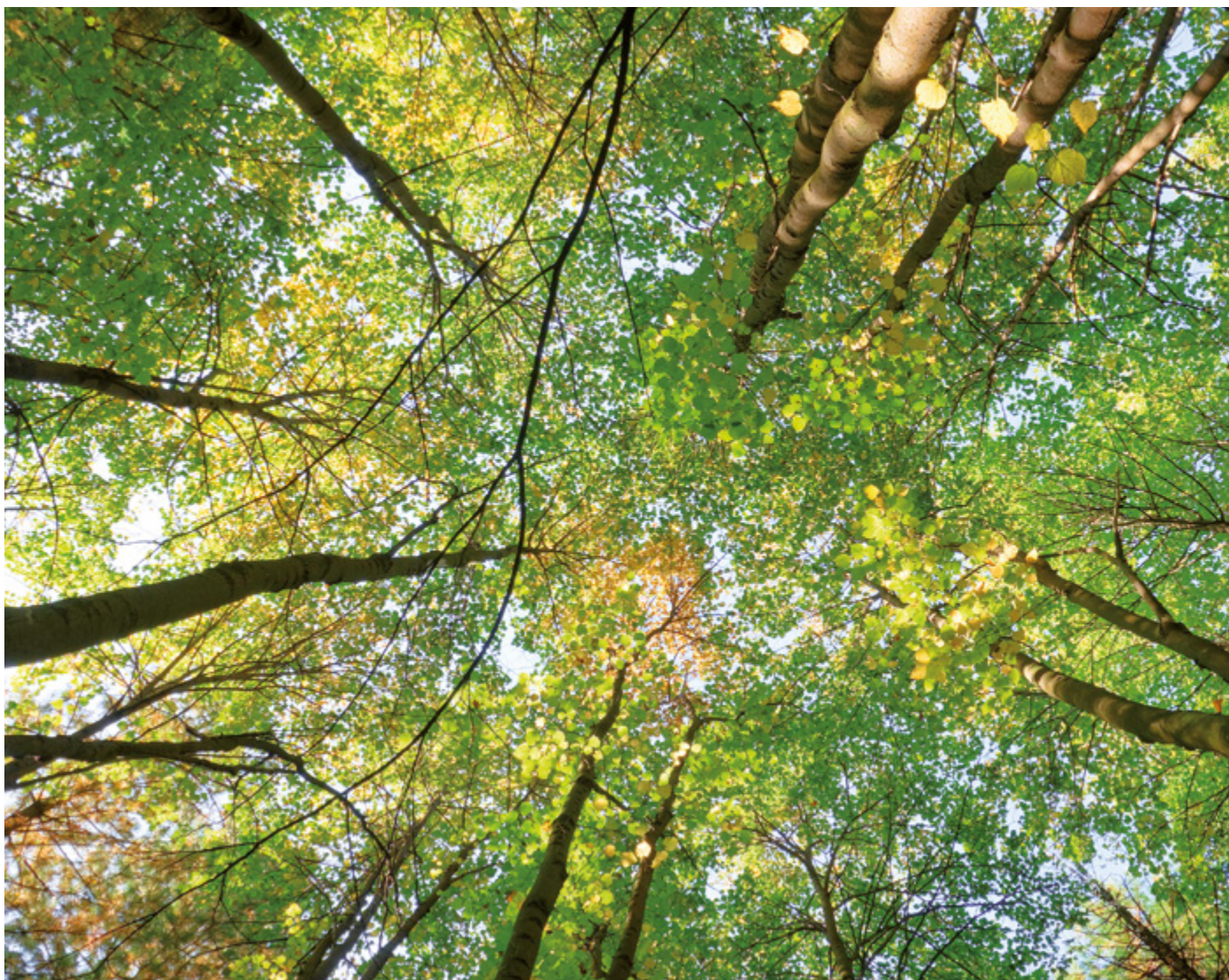
The door must withstand a defined number of opening and closing cycles at a defined speed.



Closing / extension test

The door must withstand a specific number of opening cycles under a defined tensile load.





Hettich accepts responsibility for the world we live in. This awareness defines the strict policy of environmental management that we practise. Our environmental officer has taken personal responsibility for these aspects throughout the group of companies over a period of many years. In addition, a separate environment committee has been established for each production site. We regard statutory provisions as minimum requirements. At significant sites we also implement the stringent EMAS Regulation. And we drive forward developments that in future will help to save even more raw materials and support the necessary endeavours towards sustainability.

Hettich environmental management

In 1996 Hettich started introducing effective environmental management systems under the stringent EMAS Regulation (currently: EC Regulation No. 761/2001, including EN ISO 14.001/2004). This not only enables us to improve

our environmental performance on a broad front but also to achieve a high level of safety which, not least, also benefits our customers. This is why we also require our suppliers to meet the necessary minimum standards of environmental protection, industrial safety, health care and social welfare.

The results achieved in the drawer runner and drawer system product segment at the Kirchleugern operation illustrate the impressive effects these measures have and verifiably demonstrate our tireless endeavours to translate words into action:

Relief to the environment between 1997 and 2008:

Specific water consumption:	56 percent
Specific power consumption:	21 percent
Specific heat consumption:	84 percent
Specific CO ₂ emissions:	29 percent



Hettich standard for product materials

Hettich underpins its commitment by applying an internal standard for product materials. This ensures that every product – from production to disposal – satisfies all environmental requirements. Hettich products are durable. Appropriately foresighted, our rigorous standards are formulated to ensure that international legislation is also met. This provides a reliable basis for marketing furniture worldwide.

Zero energy building – Hettich Forum

The Hettich Forum building with its neutral energy balance is a shining example of future proof building design. Photovoltaic panels and solar collection system providing hot water as well as extensive roof greening and use of rain water underscore this building's overall

sustainability concept in just the same way as the broad use of cellulose insulation material from recycled newspapers, highly efficient heat recovery and the bulb free lighting concept do.

With the Hettich group of companies having acquired European Commission GreenBuilding Partner status on 5 March 2009, the comprehensive approach demonstrated by the Hettich Forum has also convinced the adjudicating panel of the national „Green Building Award 2009“. Hettich received the first prize to be presented in the „New Building“ category.

Technik für Möbel



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