



The premium sliding door system
for flush fitted sliding doors: **InLine XL**

Technik für Möbel


Hettich

Slide it. Love it.

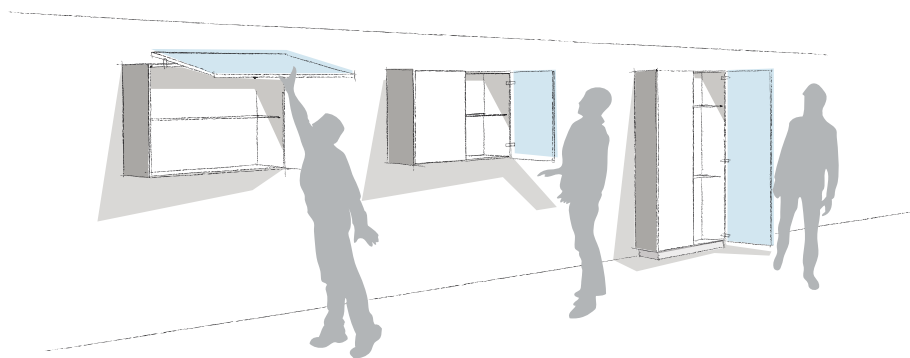
Everyone does it: Slide it. Love it.

People like to keep it simple. On their tablet PCs. On their smartphones. The revolutionary aesthetic appeal of virtual sliding fascinates millions: gentle, flowing movement, simply at the touch of a finger. But sliding in the real world's right on trend too. Truly practical cars have a sliding door; a sliding roof provides fresh air and a feeling of freedom, and at home we slide panel curtains and doors as room dividers or on furniture.

Are you open to new trends? Because if you are, new doors are about to open for you too. In this case they open to the side. Whether for the bedroom, living room or kitchen furniture – Hettich gives you innovative sliding door systems that go perfectly with your furniture.

Are you open to a new love? Welcome to Hettich.





Ergonomics

Benefits that come with sliding doors

Sliding doors show what they're made of in everyday use. In terms of ergonomics and convenience, most consumers think sliding doors are better. And for good reasons: open sliding doors don't get in the way where space is at a premium.

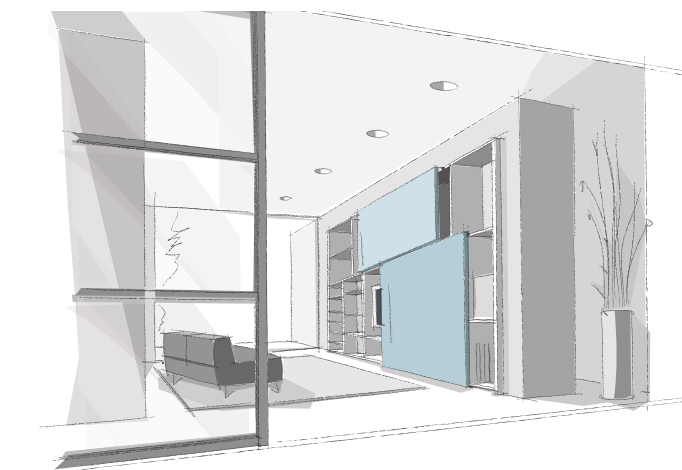
Open doors on wall units are not likely to leave you injured. Sliding doors are also easy to open without stretching or dodging out the way.

Design

Being creative with sliding doors

Sliding doors provide the key to picking up on modern, spacious interior design and continuing it in furniture. Large surface doors open the way to purist interior design.

Modern sliding door systems create a look that impresses with narrow reveals that can also be kept to a minimum with large surface fronts. Easy precision adjustment provides superb finished results with perfect gap alignment.

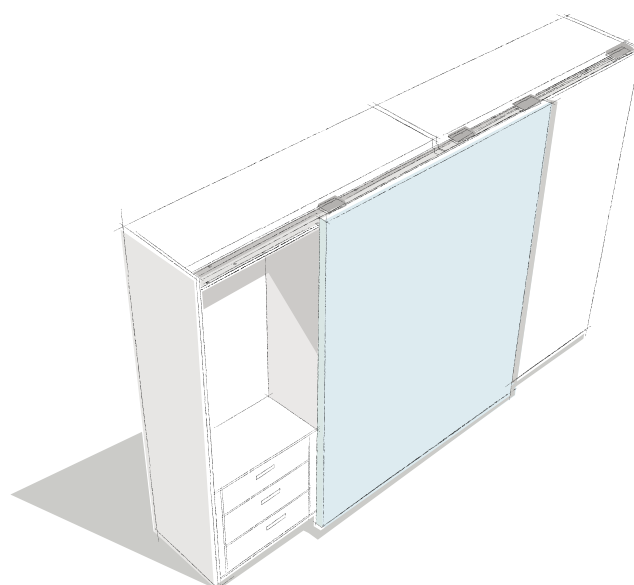


Functionality

What good cabinet doors need to do

When it comes to cabinet doors, it's the practical aspects most consumers attach importance to, particularly to ease of opening and closing. The benefit of linear movement provided with sliding doors should be combined with low forces needed to open them. Also appreciated is the convenience of Silent System for soft, gentle and silent closing.

The perfect sliding door system is also expected to come with outstanding running performance and give quality you can rely on.



Being creative with sliding doors



Fascinating: flush fronts.

Flush fitted sliding door systems fascinate with their purist look: stylish, stunning and sophisticated. They also open up new design options, such as uninterrupted veneering. InLine XL unites all the attributes of a modern sliding door system:

It impresses with narrow reveals that can be kept to a minimum – with large surface fronts. Easy precision adjustment provides superb finished results with perfect gap alignment.



Technical details in brief *)

- ▶ Top running sliding door system
- ▶ Flush fitted doors
- ▶ For wooden or aluminium framed doors
- ▶ Doors weighing up to 60 kg
- ▶ Door height up to 2600 mm
- ▶ Door width 750 – 2000 mm
- ▶ Door thickness 16 – 25 mm
- ▶ Height adjustment, adjustable door overlay and tilt
- ▶ Silent System (adjustable) in opening and closing direction

*) Tested to DIN EN 15706



No handle, no offset? No problem.

InLine XL is the first sliding door system to do away with handles completely. For the last word in design flexibility.

InLine XL lets you create flush fitted units that provide premium class convenience: the handleless front opens in response to a light pull on the door's leading edge. Unbridled flexibility in the use of handles too – you can position them wherever you prefer. Exquisitely smooth running action. Silent System adjusts to suit any preference. Flush opening doors. And design that's overwhelming too: no offset to spoil the look, no visible gaps. Sliding can be as attractive as this.

Opening at the leading edge





Design purity. Ergonomic perfection.

Flush fitted sliding doors are easy to open from the door's leading edge – bringing convenience and ergonomics previously unwitnessed before the arrival of InLine XL. You can also create flush fitted fronts without handles. For a consistent purist thread throughout furniture design.

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.

Quality criteria

- ▶ Endurance test over 40,000 cycles
- ▶ Closing test with a pulling force of 4 kg
- ▶ Lift out test at 250 N
- ▶ Load test in horizontal direction at 250 N

Loading capacity

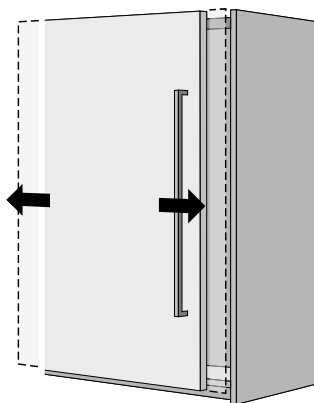
The values stated in the catalogue for Hettich sliding door systems comprise the permissible total weight of the door in combination with the permitted door sizes. All Hettich sliding door systems pass the overload test to EN 15706. The sliding door systems are suitable for furniture to EN 14749 when processed correctly as specified in the catalogue.

Corrosion test

Hettich sliding door systems satisfy the requirements on corrosion defined in EN 15706, 72-hour condensation-water test to EN 6270.

Endurance test

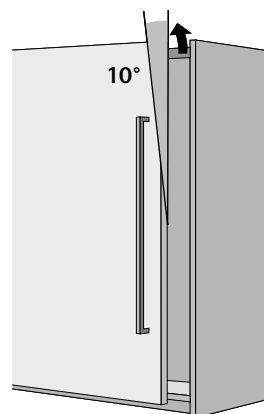
The door must withstand a defined number of opening and closing cycles at a defined speed.



Lift off guard*

The door is pulled up and forwards at an angle with a defined force and must not come off or fall out of the carcass.

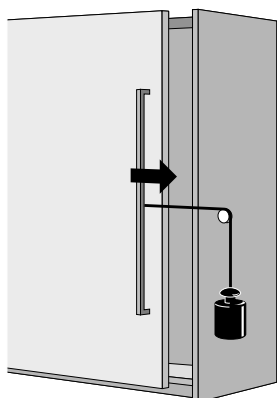
*Not for tests to BHMA, BIFMA



Closing test*

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

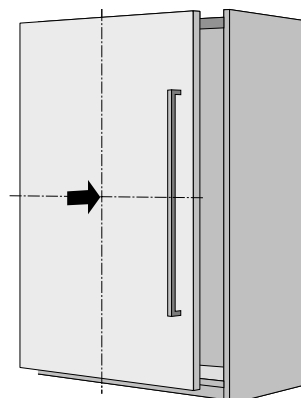
*Not for tests to BHMA



Horizontal safety test*

Pressure is applied to the middle of the door with a defined force. The door must not come off or fall out of the carcass.

*Not for tests to BHMA, BIFMA



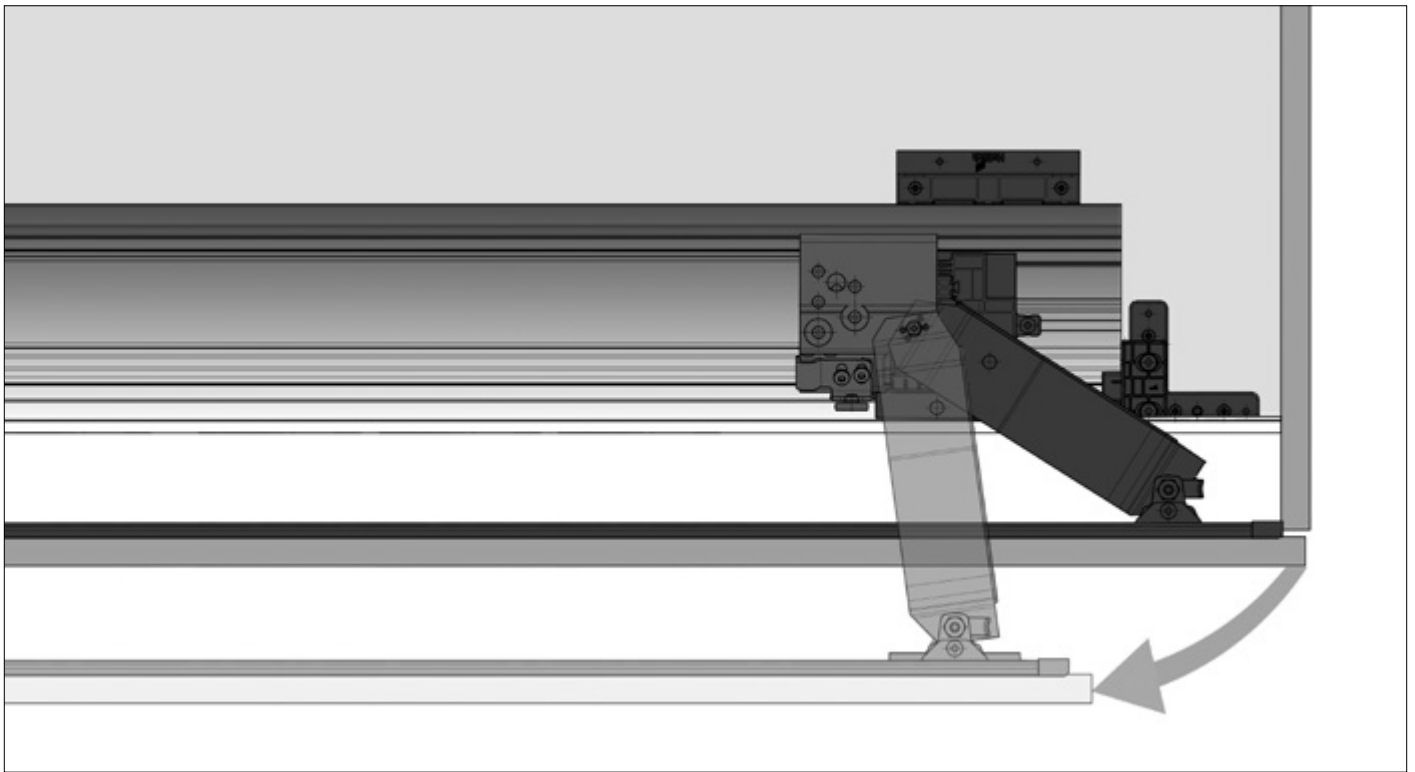
InLine XL sliding door system

► Movement cycle



Impressive movement cycle

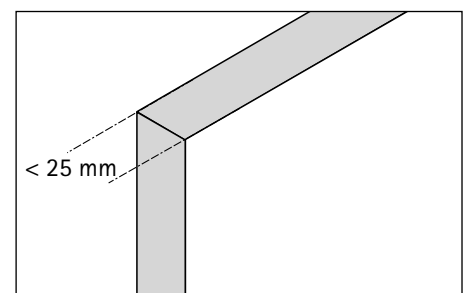
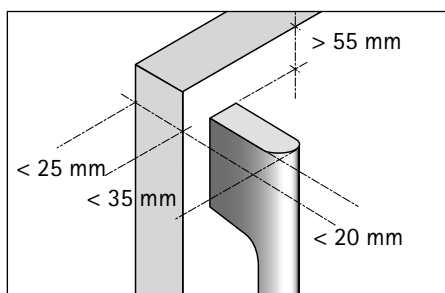
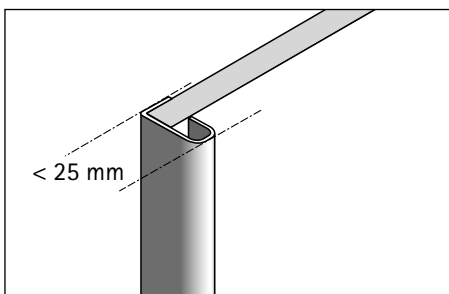
The InLine XL fitting system produces a four-joint mechanism. It first moves the door out and round in a curving movement, then in linear fashion across the other furniture front. To produce a fascinatingly balanced movement cycle.



Handles

Handles can be allowed to protrude by as much as 35 mm

The curving movement cycle of the doors means it is possible to mount handles with a protrusion depth of up to 35 mm – at virtually any position on the front.



InLine XL sliding door system

► Flush opening



Design purity. Ergonomic perfection.

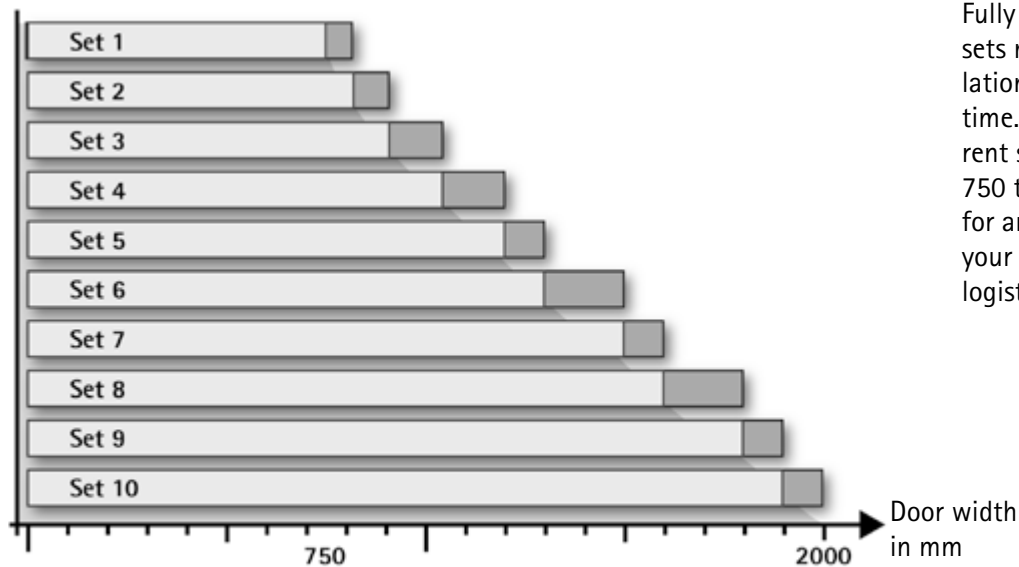
In the opened position, sliding doors are left completely flush, one in front of the other. This makes internal pull-outs particularly easy to use as they are completely unobstructed – entirely without the need for spacers.



InLine XL sliding door system

► Logistical benefits

System based fittings sets

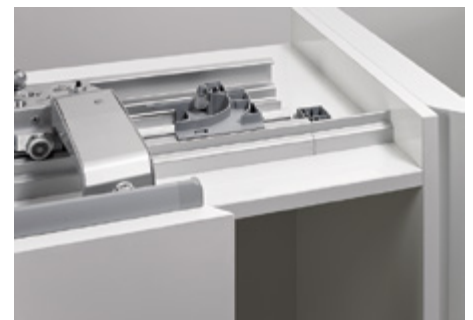


Fully preassembled Hettich fittings sets make short work of door installation and ensure great results every time. Practical: there are just 10 different sets to cover all door widths from 750 to 2000 mm – without the need for any customisation. This reduces your inventory costs and simplifies logistics.

Concealer profile can be cut to length



The InLine XL fittings set is always installed from the centre. The gap left at the side on opening the door can be covered by a concealer profile – for a look of perfection.



InLine XL sliding door system

► Installation

Adjusting door height



Perfection made easy

The height and tilt adjustment mechanism is also easily accessible with doors in place. This way, the doors can be aligned with ease and precision.

Adjusting door overlay



Uncompromising precision

Door overlay is infinitely adjustable, in just the same way as door tilt. For a precision-crafted finish and perfect end result.

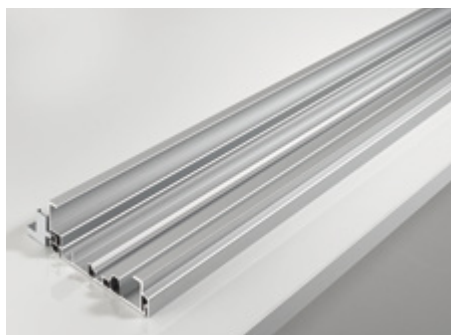
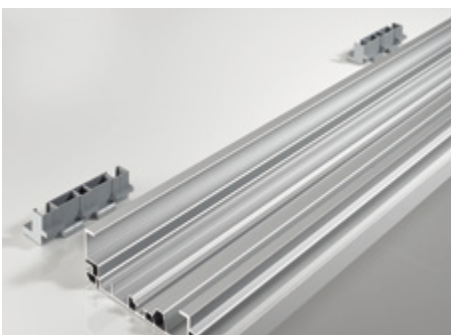
Adjusting Silent System performance in opening direction



Added convenience

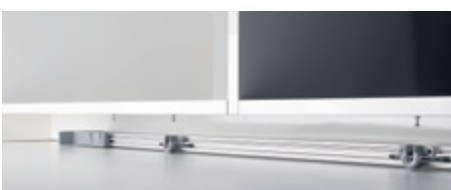
Silent System gently and quietly slows doors down in the opening and closing direction.

Mounting aid upgrade kit



Exquisite design – inside too

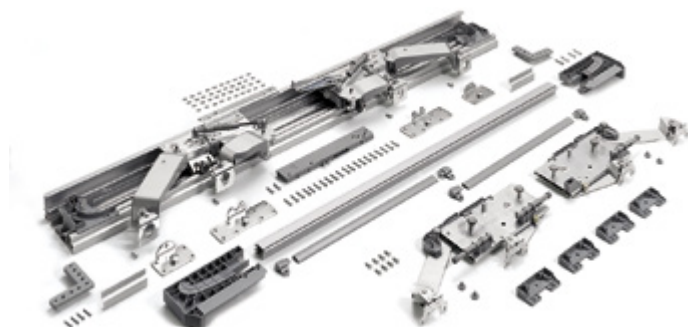
The Hettich mounting aid (optional accessory) lets you install the fitting components on the assembled cabinet without visible screws inside the cabinet. This also gives you an uninterrupted, unblemished surface finish on the inside – meeting the most exacting demands on design. Floor-to-ceiling configurations are not a problem either.



InLine XL sliding door system

► System components

Sets include Silent System in opening and closing direction



- Sets include Silent System in opening and closing direction
- The sets are preassembled
- 1 set is required for a two door application

Set comprises:

- 1 runner profile with 2 premounted runner carriages
- 1 guide profile
- 2 runner carriages, 1x left and 1x right
- 2 activators for the guide profile, 1x left and 1x right
- 1 Silent System
- 4 front brackets at top, 2x right and 2x left
- 4 front brackets at bottom
- 2 aluminium concealer profiles
- 2 plastic cover profiles
- Fixing material

Door width (TB) mm	Max. recommended door height mm	Order no.	PU
750 - 819	< 2000	9 148 180	1 set
820 - 909	< 2000	9 148 201	1 set
910 - 1044	< 2200	9 148 202	1 set
1045 - 1199	< 2200	9 148 203	1 set
1200 - 1299	< 2400	9 148 204	1 set
1300 - 1499	< 2400	9 148 205	1 set
1500 - 1599	< 2600	9 148 206	1 set
1600 - 1799	< 2600	9 116 581	1 set
1800 - 1899	< 2600	9 155 574	1 set
1900 - 2000	< 2600	9 155 575	1 set

Further information on door formats is provided on page 17

Optional mounting aid upgrade kit



- Optional mounting aid upgrade kit
- For concealed profile attachment on floor-to-ceiling cabinets
- The sets offered contain a different number of components.
Set 9 148 562 (illustrated here) contains twice as many components as set 9 148 547
- An example illustrating how to use the upgrade kit is shown on pages 23 and 24.

Door width (TB) mm	Order no.	PU
750 - 1199	9 148 547	1 set
1200 - 2000	9 148 562	1 set

Adjustment fitting, plastic



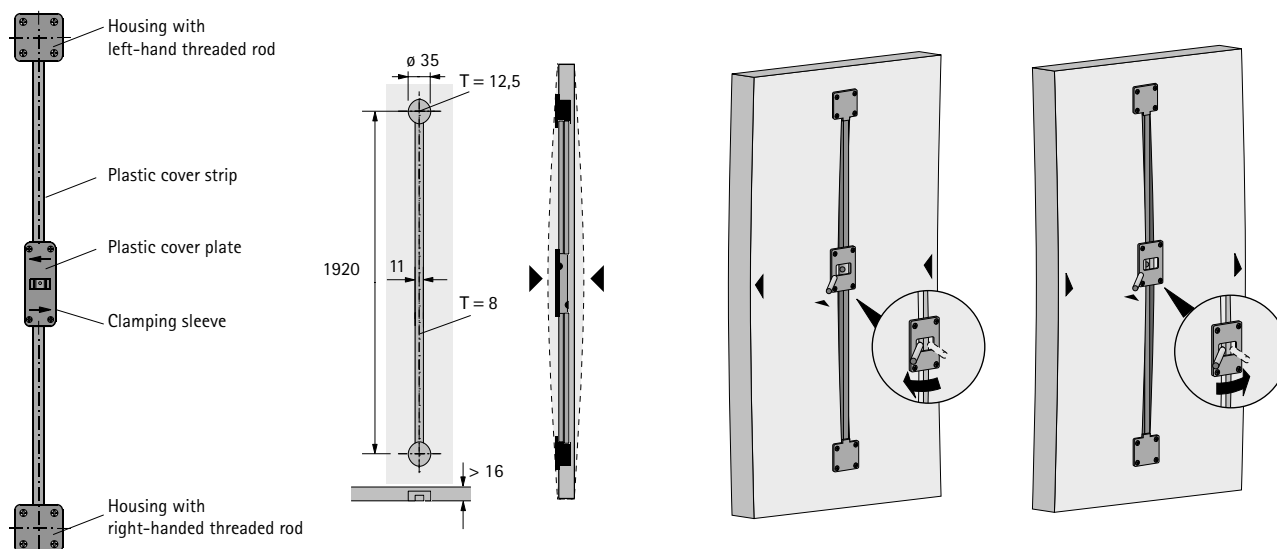
- For straightening distorted furniture doors
- Can also be used as a precautionary measure to prevent doors from warping
- For doors / fronts in thicknesses from 16 mm
- Maximum door / front height 2600 mm
- It is recommended to use 2 fittings per door
- Installing the fitting is simple and straightforward: a pair of threaded rods, one with a right-hand thread and one with a left-hand thread, are fed into a clamping sleeve.
- Each threaded rod is additionally supported in a housing which is inserted in a 35 mm hole and screwed down.
- Turning the clamping sleeve produces tensile or compressive force that straightens inwardly or outwardly bowing doors.
- Housing, clamping sleeve and threaded rods are covered to prevent damage to garments and laundry.

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 sets
0 073 347	50 sets

Technical information



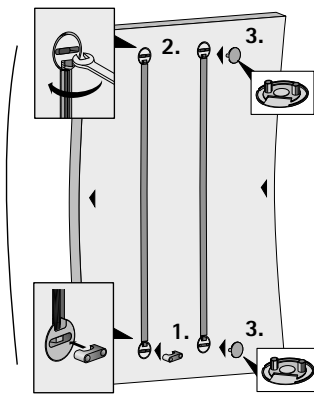
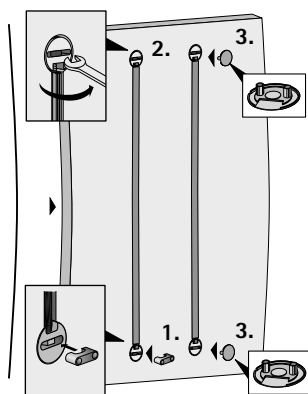
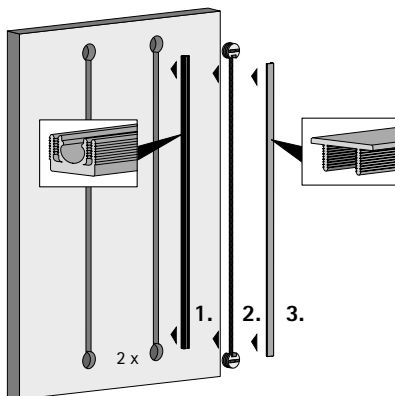
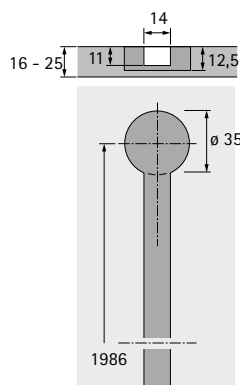
Adjustment fitting, aluminium



- For straightening distorted furniture doors
- Can also be used as a precautionary measure to prevent doors from warping
- For doors / fronts from 16 - 25 mm
- Maximum door / front height 2600 mm
- Length of threaded rod 2000 mm, can be shortened as required
- 2 adjustment fittings must be installed per door/front
- Fast, screwless installation and adjustment requiring just one hand
- For silent door / front movement
- Covers for 35 mm ø holes, silver plastic
- Covers for groove, aluminium, silver anodised
- One set contains two adjustment fittings

Order no.	PU
9 117 303	1 set

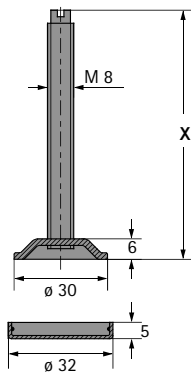
Technical information



InLine XL sliding door system

► Accessories

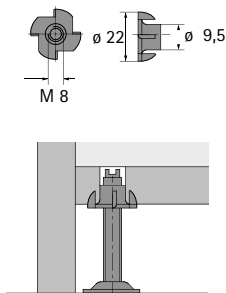
Leveller screw with M8 thread



- 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.

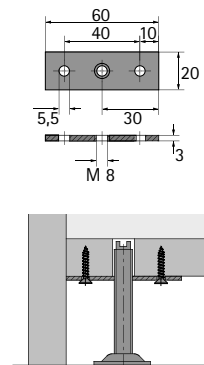
T-nut with M8 thread



- Bright steel

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

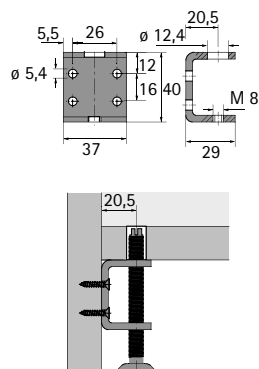
Supporting plate with M8 thread



- Galvanised steel

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

Double metal bracket with M8 thread

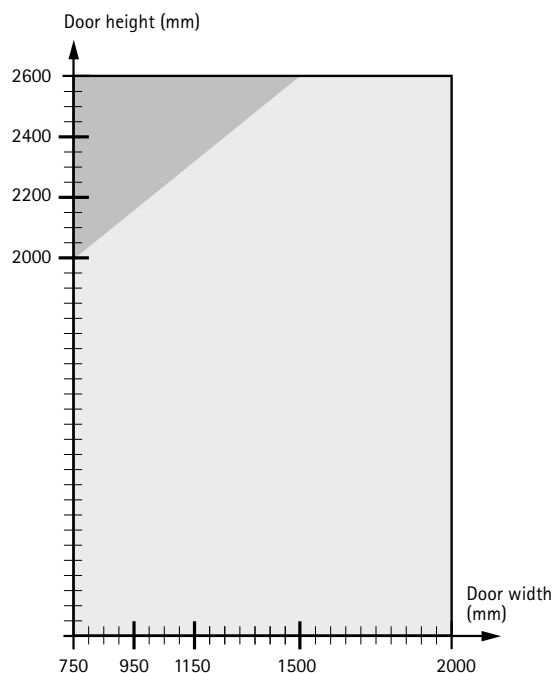


- Galvanised steel

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

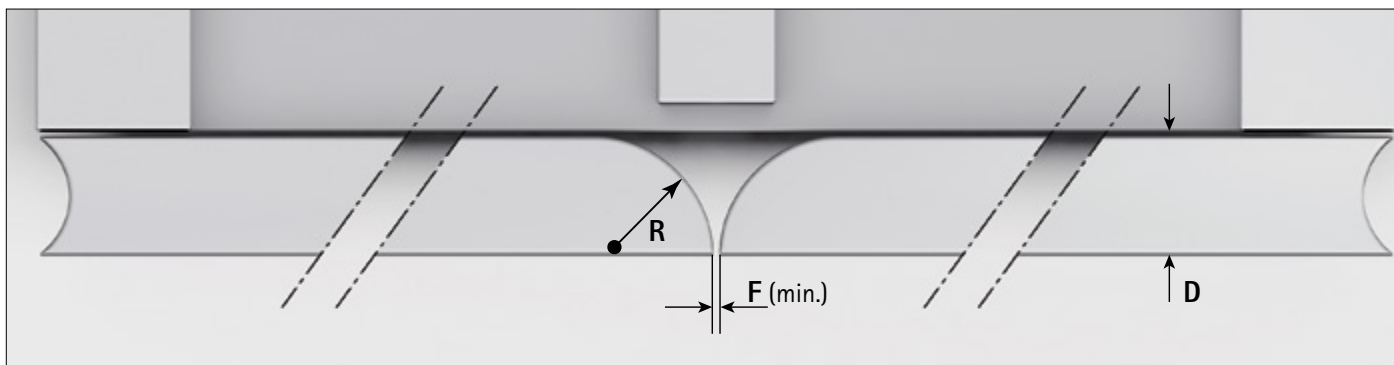
Further accessories are shown in the online catalogue and Furniture Fittings and Applications catalogue.

Optimum door formats



Optimum sliding door operation depends on door width, door height and door weight. InLine XL provides optimum performance by selecting sliding doors with a width / height ratio matching the light grey area. Hettich recommends performing a function test if the width / height ratio extends into the dark grey area. The maximum door weight of 60 kg must not be exceeded.

Front design

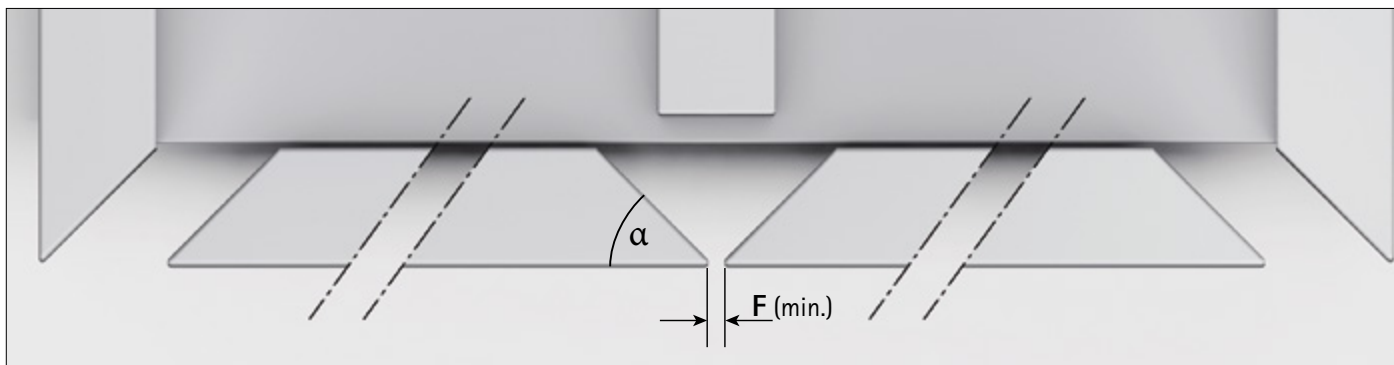


A flute in the leading edge can enhance ergonomics, particularly in solid wood fronts without interfering with their look. Edge roundings at the centre of the unit reduce the centre gap.

Little effort, great effect.

$F \text{ (min.)} = 5 \text{ mm}$

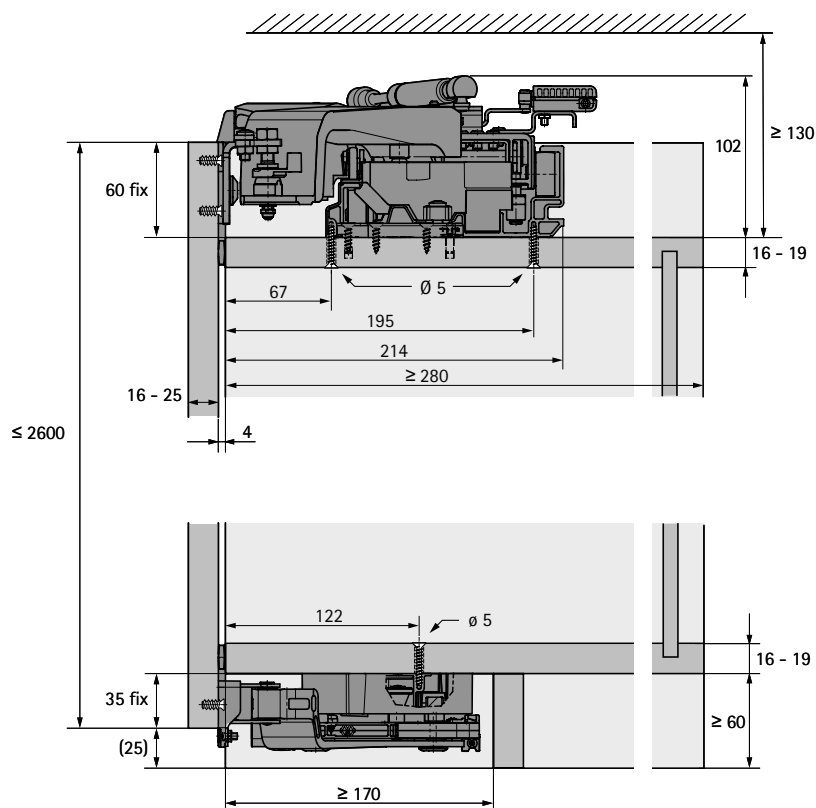
$R \leq D$



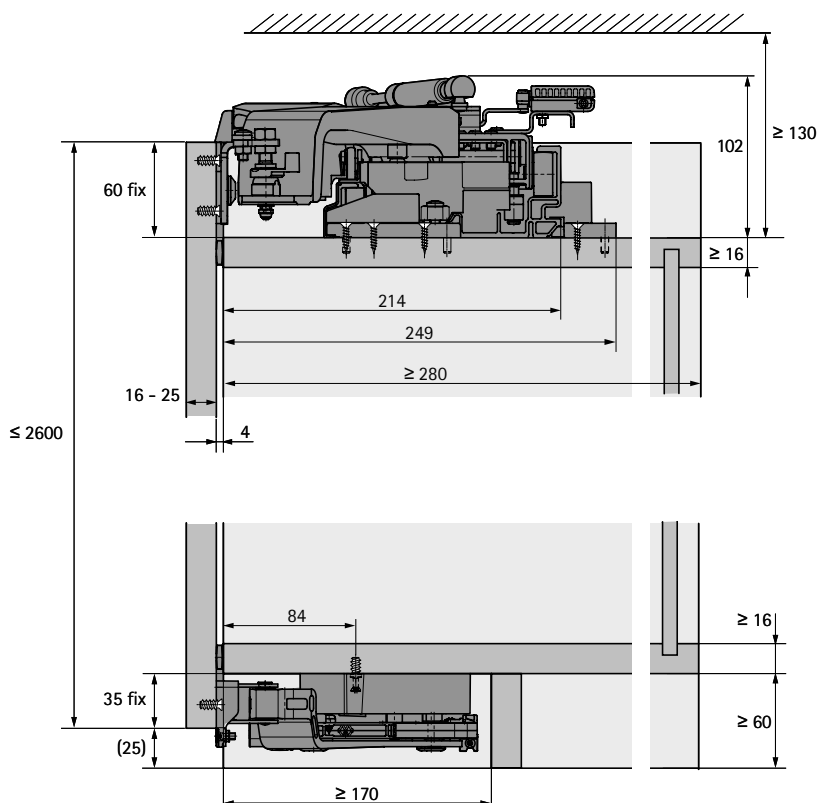
Inset, handleless design can be created simply by giving the front a mitred edge. This produces a comfortable finger gap on the leading edge and a narrow centre gap.

α	45°	60°
F (min.)	3 mm	4 mm

Planning dimensions – cross section

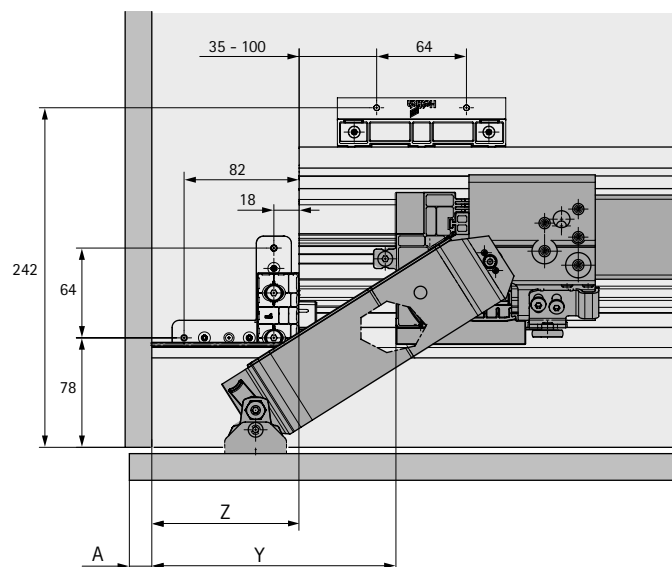


Planning dimensions – cross section with mounting aid upgrade kit

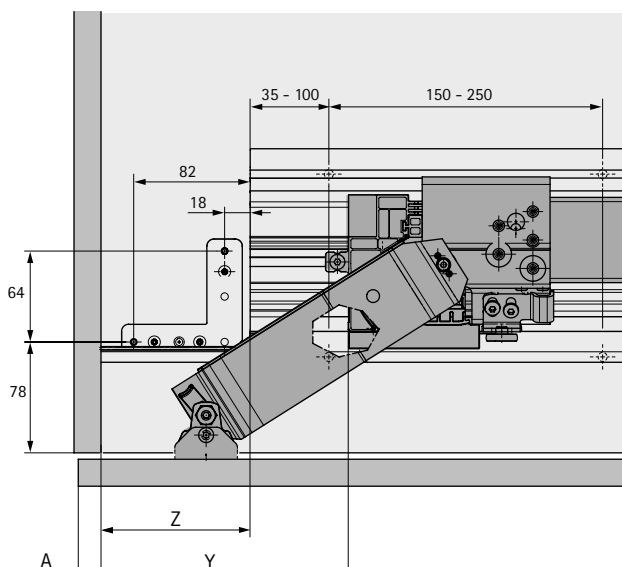


Planning dimensions

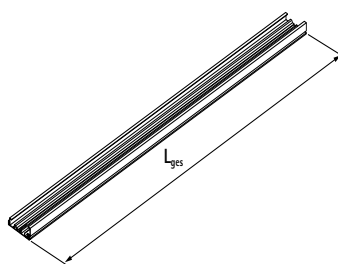
View from above with mounting aid upgrade kit



View from above



Door width (TB) mm	L mm	X mm	A (max.) mm
750 - 819	1294	215.5	13
820 - 909	1434	240.5	13
910 - 1044	1606	260.5	17
1045 - 1199	1876	310.5	17
1200 - 1299	2164	410.5	28
1300 - 1499	2364	410.5	28
1500 - 1599	2764	560.5	28
1600 - 1799	2964	560.5	28
1800 - 1899	3364	710.5	28
1900 - 2000	3564	710.5	28



$$Y = (TB / 2) - X - A$$

$$Z = (SB - 2 \times SD - L_{ges}) / 2$$

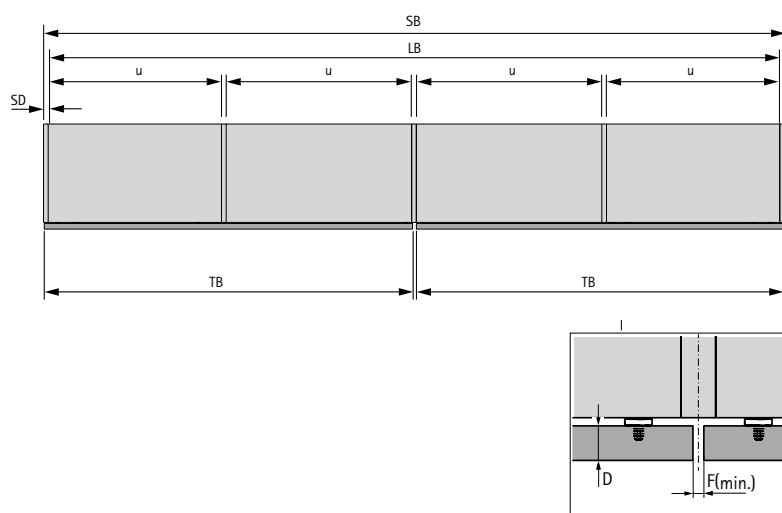
or

$$Z = (LB - L_{ges}) / 2$$

TB = door width

SB = unit width

Planning dimensions viewed from above



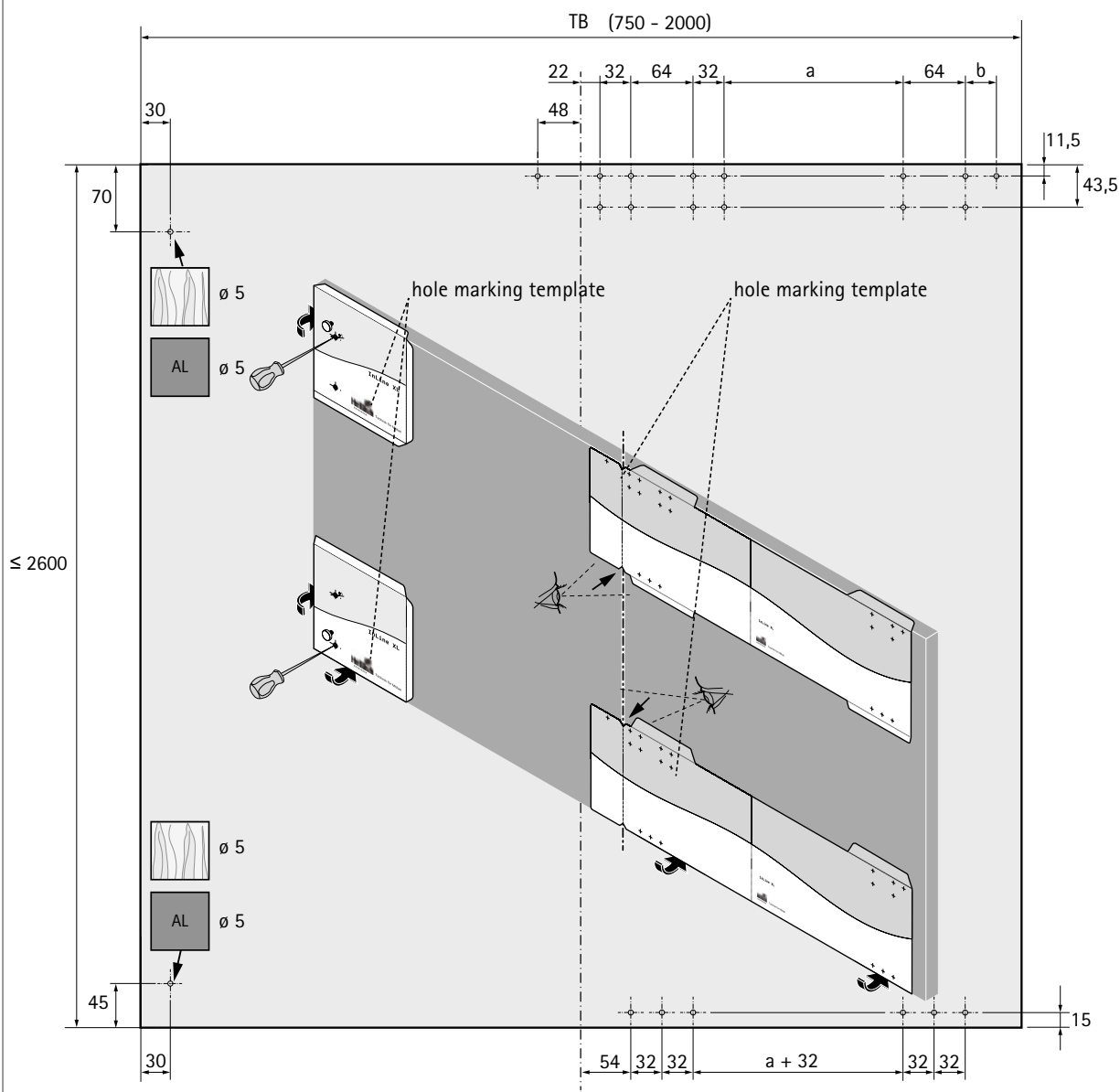
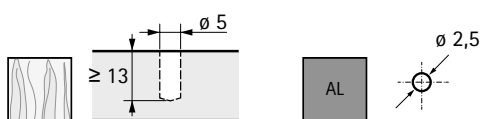
kg	u (max.) mm
40	1200
50	1000
60	800

D mm	F (min.) mm
16	5
18	6
19	6
22	7
25	8

Narrower gaps can be provided as shown on page 17.

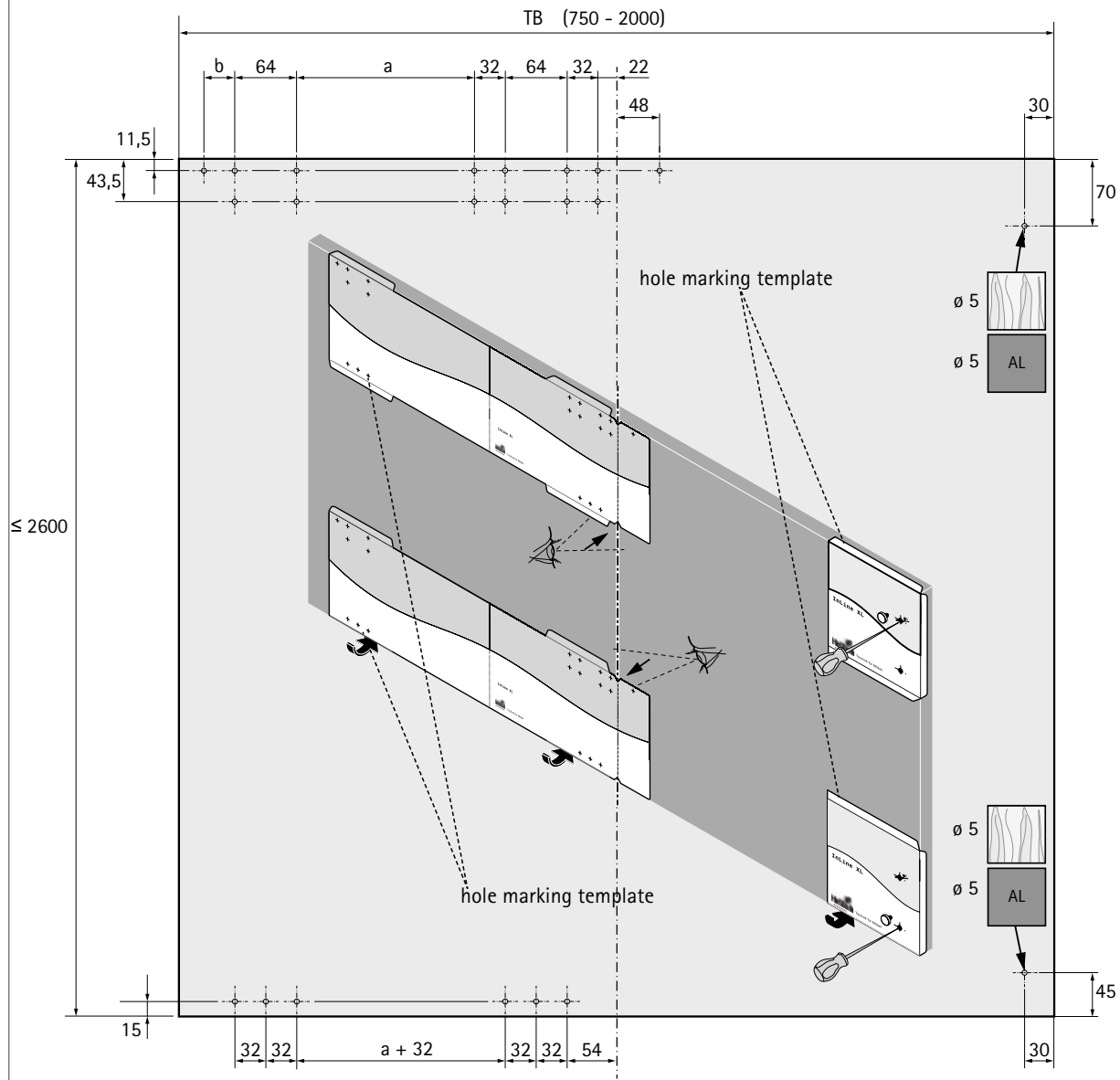
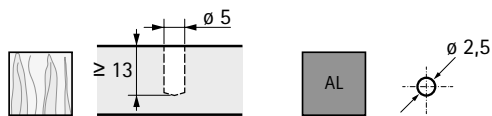
Drilling pattern, left-hand door

Door width (TB) mm	a mm	b mm
750 - 819	133	16
820 - 909	158	16
910 - 1044	178	32
1045 - 1199	228	32
1200 - 1299	328	32
1300 - 1499	328	32
1500 - 1599	478	32
1600 - 1799	478	32
1800 - 1899	628	32
1900 - 2000	628	32

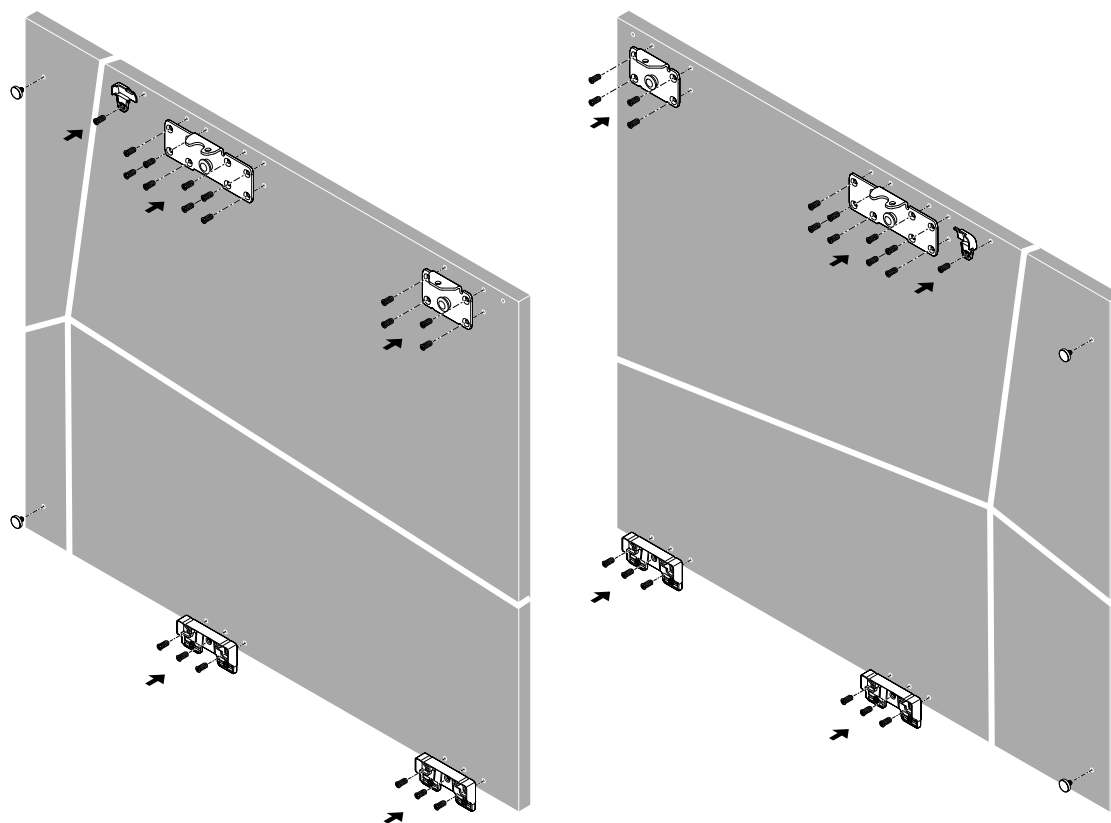
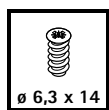


Drilling pattern, right-hand door

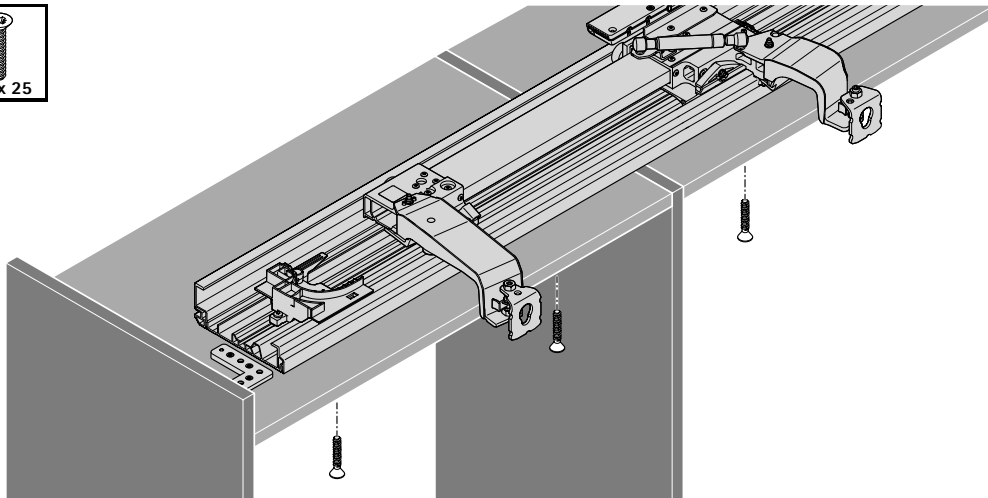
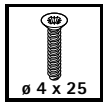
Door width (TB) mm	a mm	b mm
750 - 819	133	16
820 - 909	158	16
910 - 1044	178	32
1045 - 1199	228	32
1200 - 1299	328	32
1300 - 1499	328	32
1500 - 1599	478	32
1600 - 1799	478	32
1800 - 1899	628	32
1900 - 2000	628	32



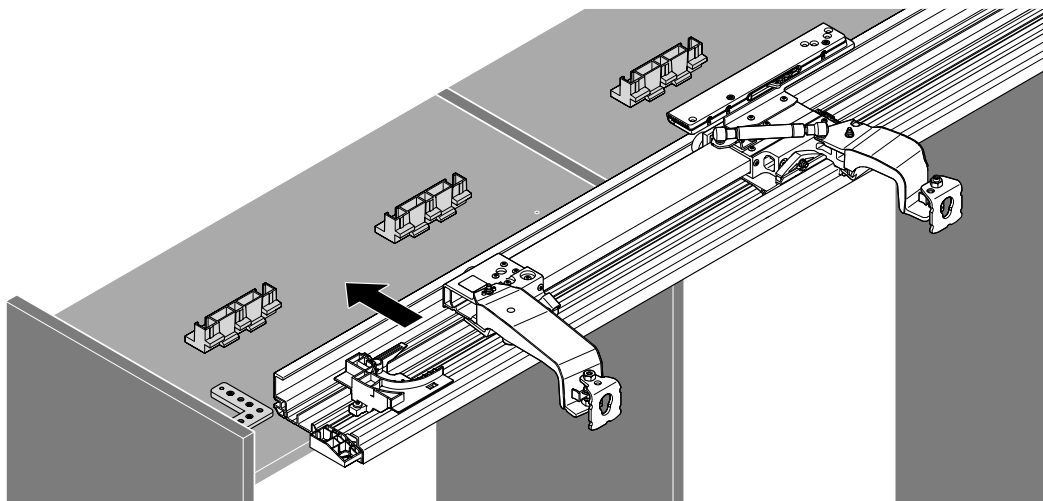
Attaching door mounts



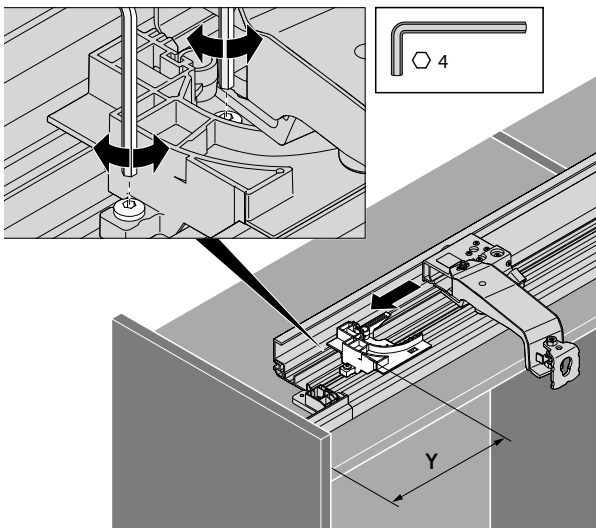
Attaching runner profile



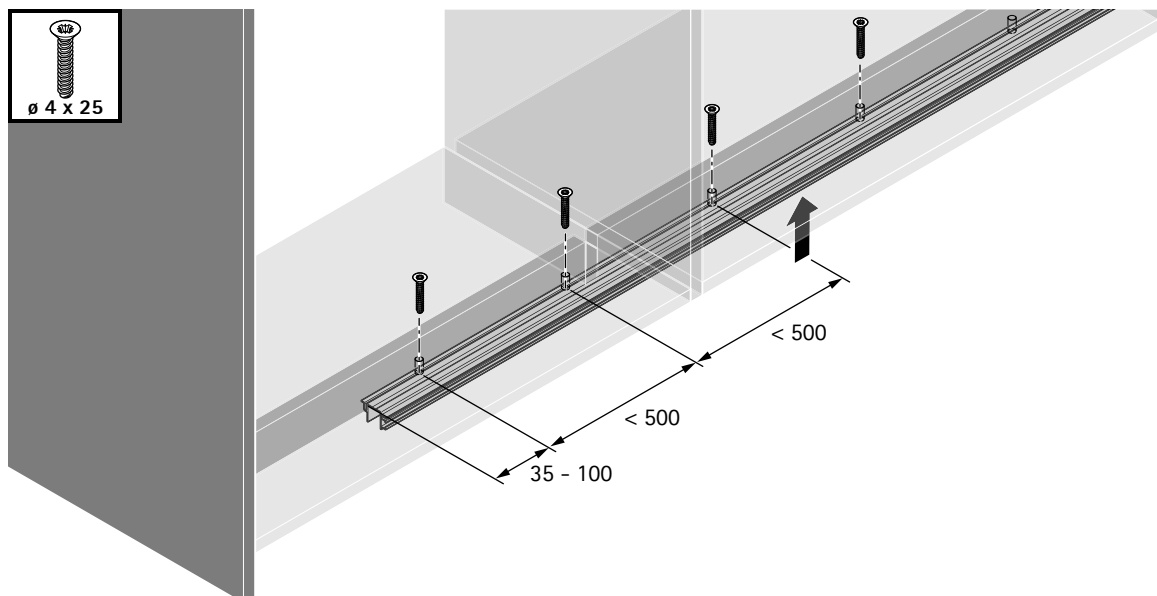
Attaching runner profile with mounting aid upgrade kit



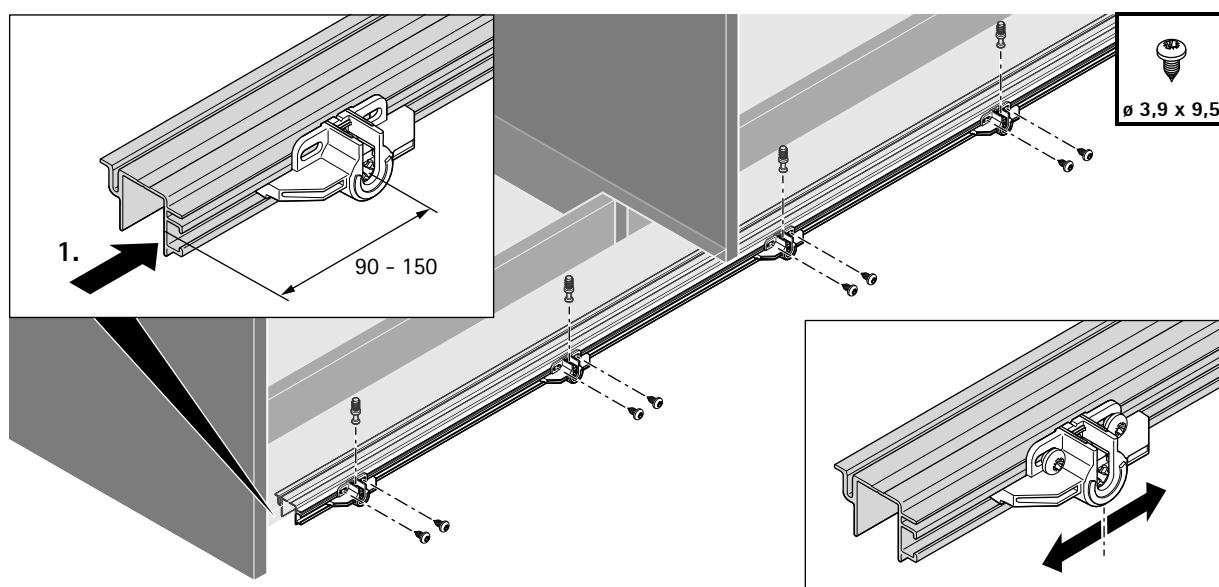
Adjusting door overlay and centre gap



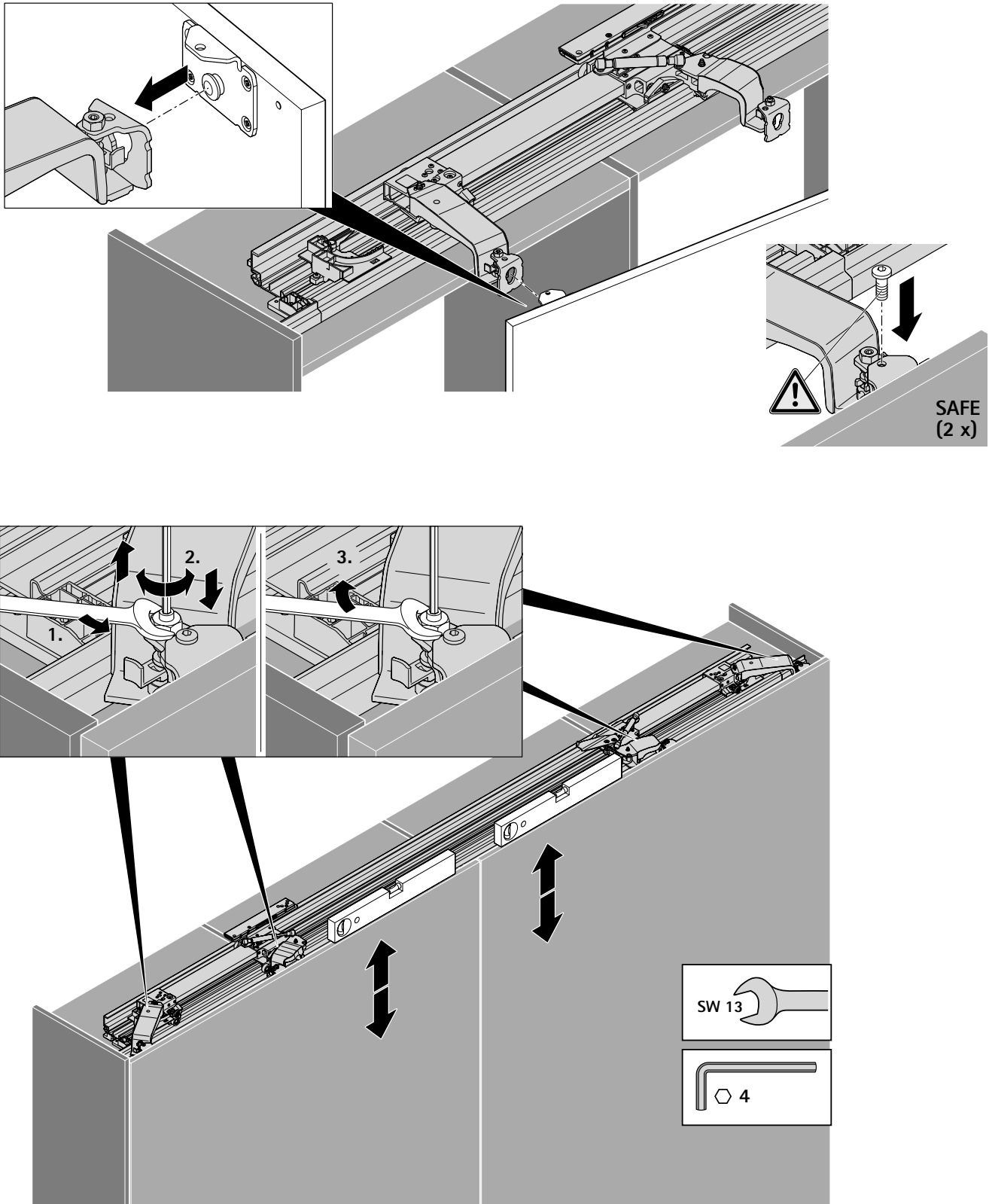
Attaching the guide profile



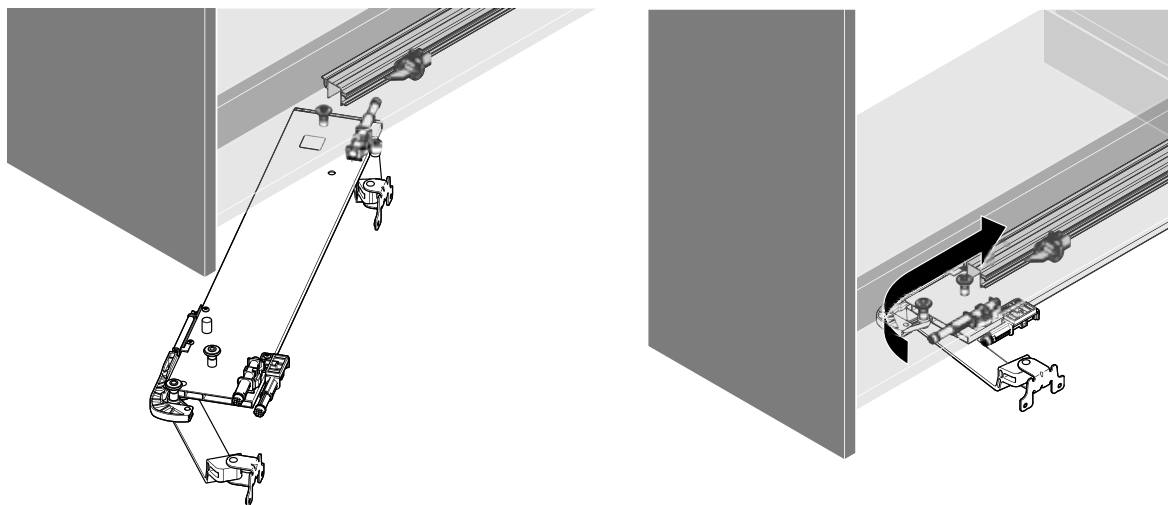
Attaching guide profile with mounting aid upgrade kit



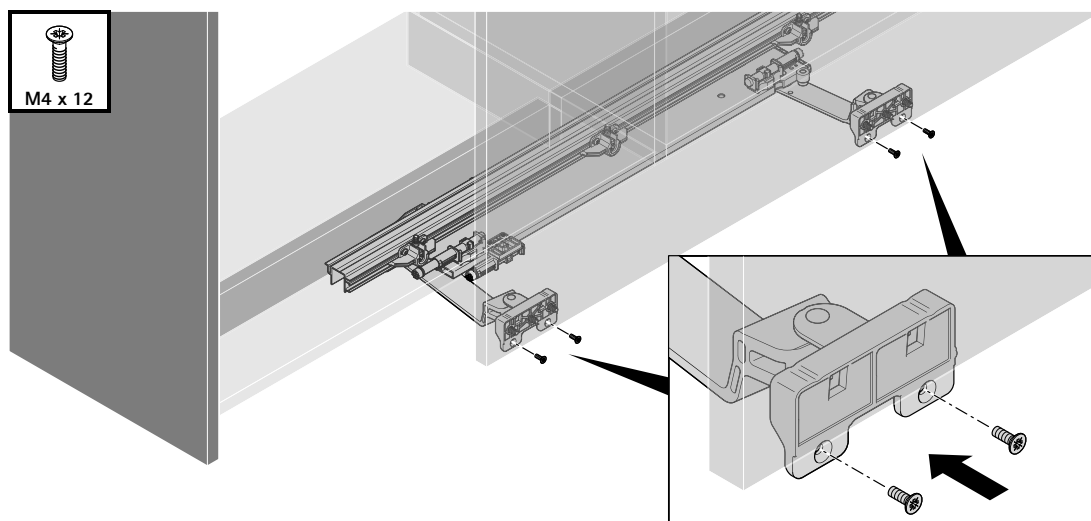
Attaching and adjusting doors



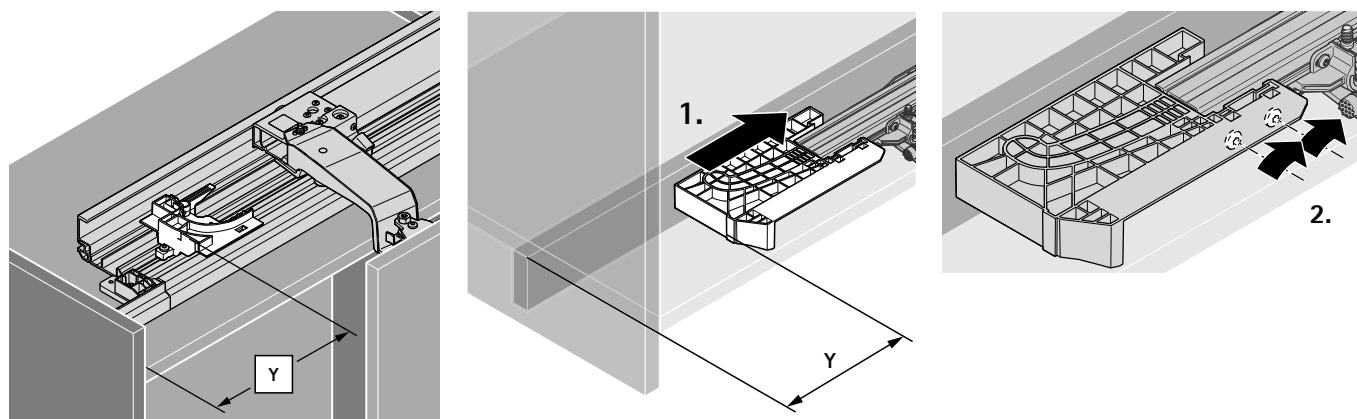
Installing guide carriages



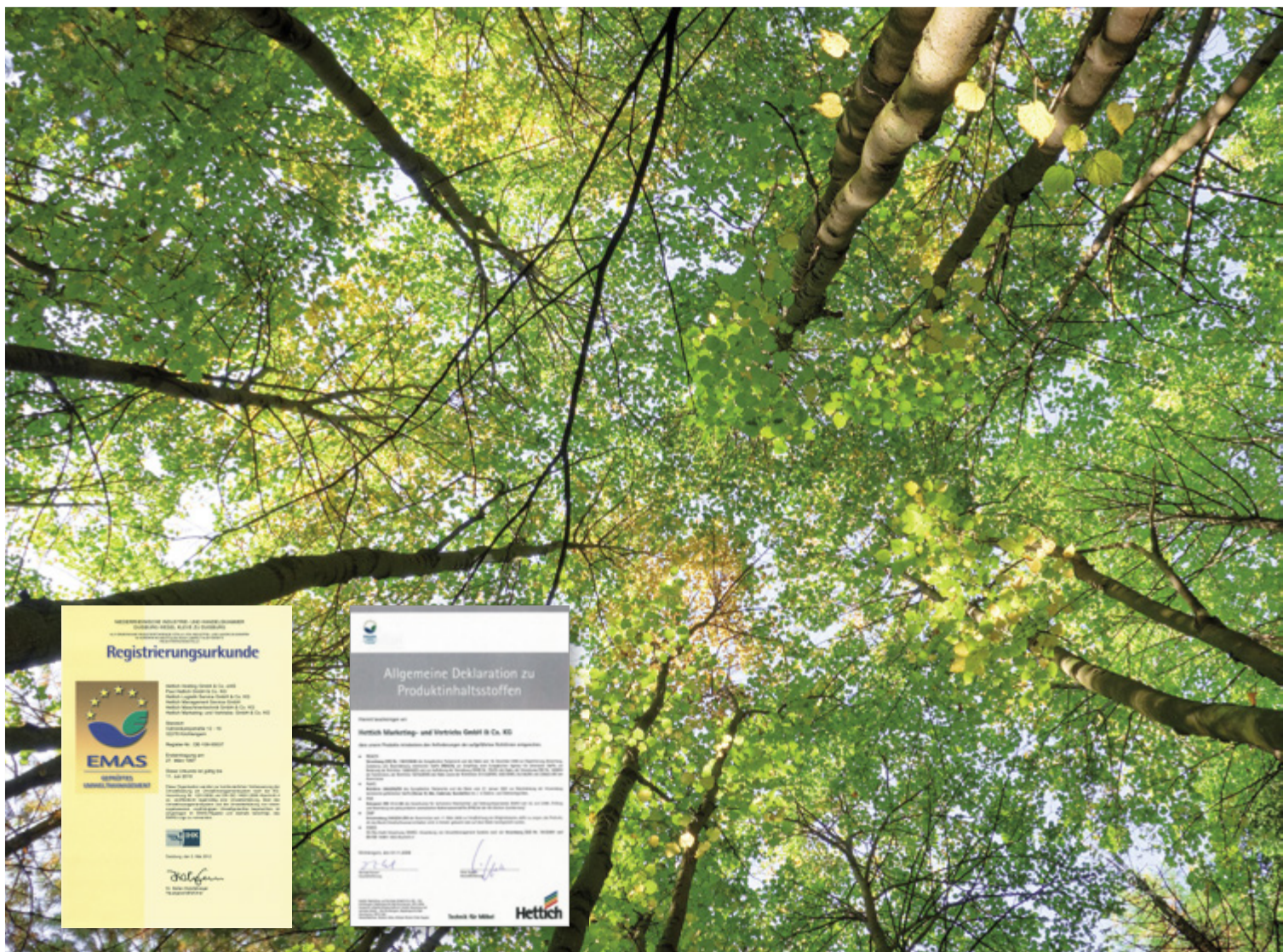
Attaching doors



Adjusting door overlay



Hettich and the environment: committed to responsible practice, active protection, innovative thinking.



Hettich accepts responsibility for the world we live in. This awareness defines the strict policy of environmental management 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 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 met as well. This provides a reliable basis for marketing furniture worldwide.

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 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 Kirchlengern 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 per cent
Specific power consumption:	21 per cent
Specific heat consumption:	84 per cent
Specific CO ₂ emissions:	29 per cent

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