



Sturdy hinge with added value.  
**SlideOn**

Technik für Möbel

  
**Hettich**

# SlideOn

easy to use, great performance



SlideOn is extremely easy to fit, simply sliding on in seconds flat. Combining SlideOn with Hettich Direkt mounting plates opens up the attractive option of using centre panels as thin 15 mm.

SlideOn makes sense whichever way you look at because installed as a pre-assembled set, it naturally brings down warehousing and logistics costs too.







Easy installation and convenience in the standard segment: SlideOn from Hettich. Choosing the SlideOn concealed hinge, you benefit from the high level of quality you are used to from an all-steel fitting.

With its position-retaining feature, SlideOn reliably opens and closes the door in any situation. A spring moves the door all the way open or all the way closed, securely holding it in either position. The position-retaining function additionally comes with a practical benefit as it prevents scratches on the inner surface of a door from fittings moving inside.





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



Hettich takes a 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 company group 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 Directive. 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. Products from Hettich come with a long life. Appropriately foresighted, our rigorous standards are formulated to ensure that international legislation is met as well. This provides a reliable basis for marketing furniture world-wide.

## Hettich environmental management

Hettich started introducing effective environmental management systems under the stringent EMAS Regulation (currently: EC Regulation No. 761/2001, including EN ISO 14001/2004) as long ago as 1996. 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 <sub>2</sub> emissions:	29 per cent

# SlideOn

## Quality that meets all of demands

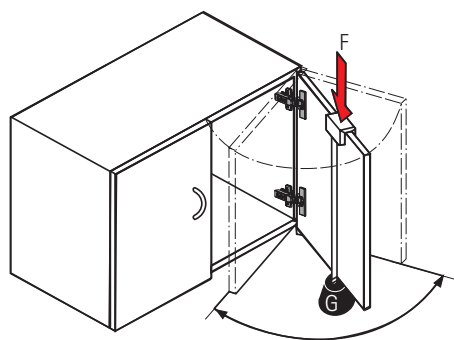
The SlideOn hinges are constantly monitored for quality. The varying quality standards demanded by different markets and segments are each taken into account. The diagrams below show examples of some of the testing processes and what they involve.

### Quality criteria

- Life cycle test over 40,000 cycles
- Closing test with an additional weight of 3 kg
- Load test in horizontal direction with 30 N
- Load test in vertical direction with 150 N

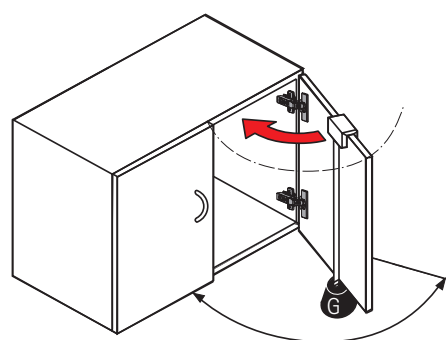
#### Life cycle test

The door must withstand a defined number of opening and closing cycles with a defined additional load  $G$ .



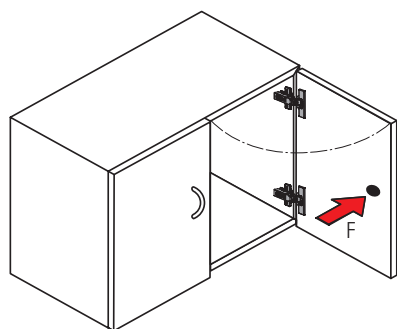
#### Closing test

The door is opened by 30° with a defined additional load of  $G$  and pushed closed from this position by means of the falling weight.



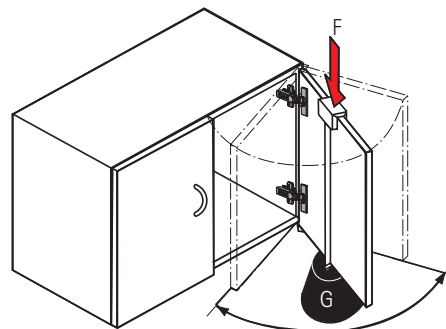
#### Horizontal test

In this test, also referred to as the overstraining test, the door is over-opened with a defined test force  $F$ .



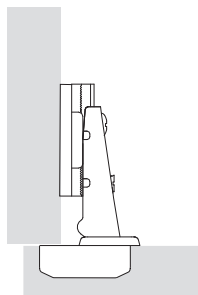
#### Vertical test

This is where the door is subjected to specific number of opening and closing cycles under a defined additional load  $G$ .



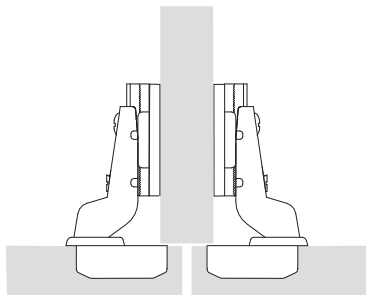
### Mounting options:

There are three basic mounting options.



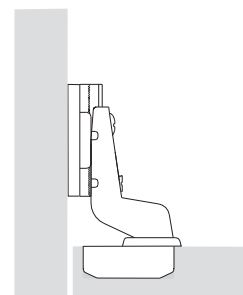
#### Full overlay:

This is where the door is positioned in front of the cabinet side panel, with only a small gap remaining at the side to provide the space necessary for the door to open reliably.



#### Half overlay:

This is where two doors are positioned in front of a cabinet centre panel, with the required overall reveal between them. In other words, each door has a reduced overlay. Cranked hinges are used.



#### Inset:

This is where the door is positioned inside the cabinet, i.e. next to the cabinet side panel. Here too, a gap is needed so that the door can open reliably. Highly cranked hinges are used here.

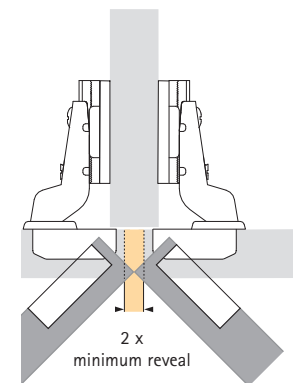
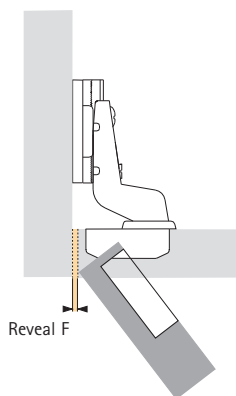
### Minimum door reveal:

The minimum reveal, also known as door clearance or minimum clearance, is the space required at the side for opening a door.

The amount of door clearance depends on cup distance C, door thickness and the type of hinge selected. Radii on the door edges reduce the minimum clearance.

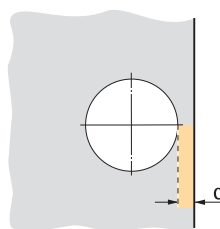
The required minimum reveal is shown in the table for the respective hinge types.

For half-overlay applications, the total reveal selected between the doors must be at least twice the door clearance. Both doors can then be opened at the same time.



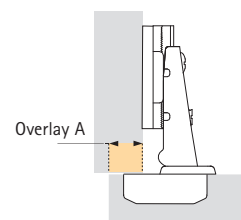
### Cup distance C:

Cup distance C is the distance between door edge and the edge of the cup drilling. Resulting from the type of door movement, the maximum cup distance depends on the specific hinge type. The greater the distance selected for cup distance C, the smaller door clearance will be, i.e. the minimum reveal required.



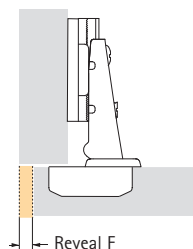
### Door overlay:

Door overlay, or overlay A, is the distance by which the door extends beyond the cabinet side.



### Reveal F:

The reveal is the distance from the outer edge of the door to the outer side of the cabinet in the case of full overlay applications, and the distance between two doors in the case of half-overlay applications. With the inset door, the reveal is the distance from the outer edge of the door to the inside of the cabinet side panel.



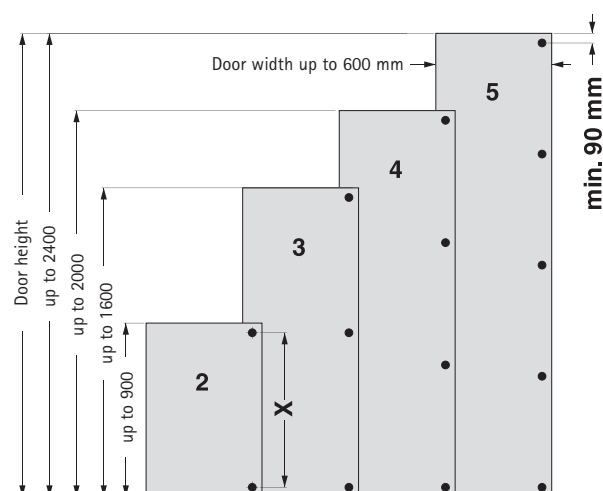
### Number of hinges per door:

Door width, height and weight as well as the material quality of the door are decisive factors in determining the number of hinges required. The factors encountered in practice differ widely from case to case. For this reason, the number of hinges specified in the diagram must be understood as a guide only. If in doubt, it is recommended to carry out a trial door mounting.

For reasons of stability, the distance between the hinges must always be made as large as possible.

X = hinge spacing

(Guide values for 19 mm chipboard panels in a density of 750 kg/m<sup>3</sup>)





## Distance D

Mounting plates are available in various thicknesses, with their effective height being identified by the distance value.

The starting point for calculating the required distance is the chosen mounting option with defined door overlay or reveal.

Proceeding from cup distance and door thickness, the first step is to determine the necessary minimum reveal from the table. If this is too large for the chosen overlay, the minimum reveal can be reduced by increasing cup distance C as well as by rounding the door edges.

The distance required for the mounting plate is now determined using the formula relating to hinge cranking.

### Example:

Half-overlay application with a total reveal of 5 mm between the doors.

Hinge 2333, 9.5 cranking

Side panel thickness 16 mm, door thickness 22 mm, ideal cup distance 3 mm

1. Value given in the table for minimum reveal: 3.1 mm, i.e. total reveal should be at least 6.2 mm. Yet to obtain a total reveal of 5 mm, cup distance is increased to 4.0 mm. The table now shows a minimum reveal of 2.8 mm, providing a total reveal of 5.6 mm. The door edges are additionally provided with a radius of 1.0 mm, once again reducing the minimum reveal shown in the table from 2.8 mm to 2.4 mm and, with this, the total reveal from 5.6 mm to 4.8 mm. Consequently, a reveal of 5 mm is now possible between the doors.

2. Door overlay A = (side panel thickness - reveal) / 2 doors = (16.0 mm - 5.0 mm) / 2 = **5.5 mm**

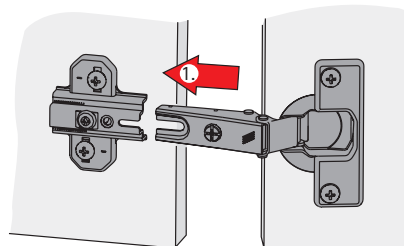
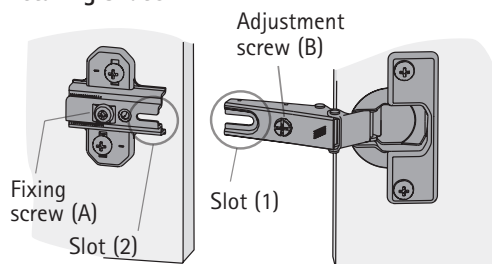
3. The formula for calculating distance for a 9.5 mm cranked hinge produces:

$$\text{Distance D} = \text{cup distance C} + 5.0 \text{ mm} - \text{overlay A} = 4.0 \text{ mm} + 5.0 \text{ mm} - 5.5 \text{ mm} = \mathbf{3.5 \text{ mm}}$$

If the distance calculated is not available (see page 10/11), the next smaller distance is selected.

**So, in this example, a distance of 3.0 mm is selected and the hinge is moved across 0.5 mm by means of a side adjustment screw.**

## Installing SlideOn



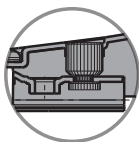
1. Slide slot (1) at the end of the hinge side section under screw (A) pre-mounted on the mounted plate and push in direction of arrow.

Make sure that overlay adjustment screw (B) is pushed under slot (2) in the mounting plate.

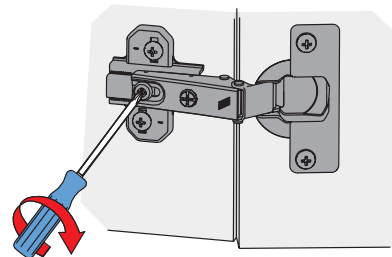
2. By way of illustration

View from below

Cross-sectional view



Adjustment screw (B) from below

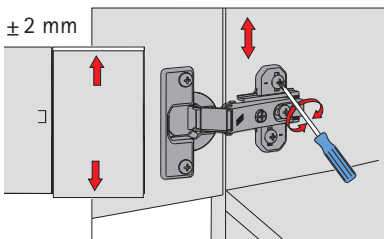


3. The screw is now tightened when the door is positioned at the required depth.

## Door adjustments

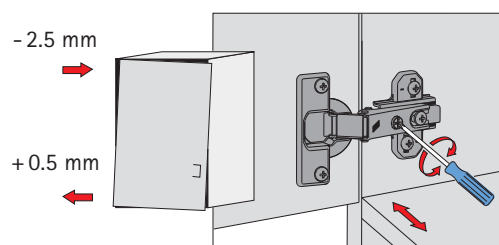
Needless to say, SlideOn hinges provide three-dimensional adjustability for exact positioning of door height, side and depth.

### Height adjustment



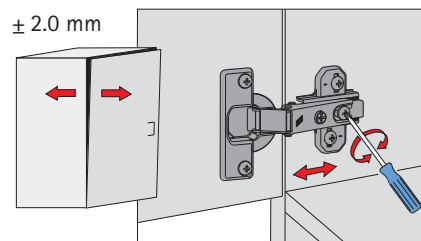
Slightly loosen mounting-plate fixing screws and align door height. Now retighten fixing screws.

### Overlay adjustment



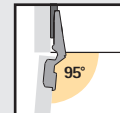
Turn screw **clockwise**: Door overlay is **reduced (-)**. Turn screw **anticlockwise**: Door overlay is **increased (+)**.

### Depth adjustment



Loosen fixing screw and adjust the gap between door and side of cabinet. Now retighten fixing screw.

# Slide-on hinge SlideOn 2333 Opening angle 95°



- Cup diameter 35 mm
- Cup distance C up to 6 mm
- Cup depth 11.1 mm
- With self-closing feature
- Overlay adjustment: +0.5 mm / -2.5 mm
- +2.0 mm / -2.0 mm depth adjustment



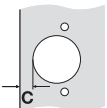
## Cup installation

		Full overlay 0 mm cranking	Half overlay 9.5 mm cranking	Inset 16 mm cranking	PU
Screw-on: T 42		1 078 660	1 078 661	1 078 662	200
Screw-on: T 42/24 (Wood-screws pre-mounted)		1 080 834	1 080 835	1 080 836	200
Screw-on: T 42/35 (Turbo fixing screws pre-mounted)		9 010 909	9 010 912	9 010 913	200
Press-in: T 43		1 078 663	1 078 664	1 078 665	200
T 42/48		1 084 927	1 084 932	1 084 937	200
T 42/54 (Turbo fixing screws pre-mounted)		9 038 396	9 038 398	9 038 399	200
T 42/10		9 037 034	9 037 349	9 037 351	200

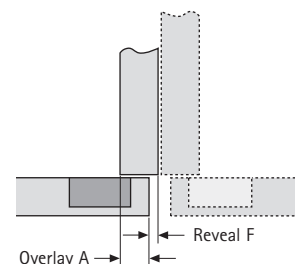


### Minimum reveal (F) to allow per door (door clearance):

For determining cup distance and mounting-plate distance

Cup distance C mm		Door thickness mm									
		16	17	18	19	20	21	22	23	24	25
	3	0.6	0.8	1.1	1.5	1.9	2.4	3.1	4.0	4.8	5.8
	4	0.5	0.7	1.0	1.4	1.8	2.3	2.8	3.5	4.3	5.3
	5	0.2	0.4	0.8	1.3	1.7	2.2	2.7	3.3	4.0	4.8
	6	0.0	0.3	0.7	1.3	1.6	2.0	2.5	3.2	3.8	4.5

The minimum reveal is reduced for doors with rounded edges: Radius 1 mm: Values shown in table - 0.4 mm  
Radius 3 mm: Values shown in table - 1.2 mm

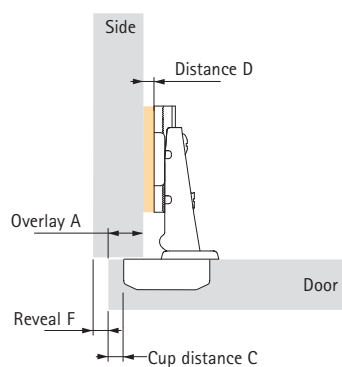


### Calculating required mounting-plate distance (D):

In relation to chosen door overlay (A) and cup distance (C)

#### Full-overlay

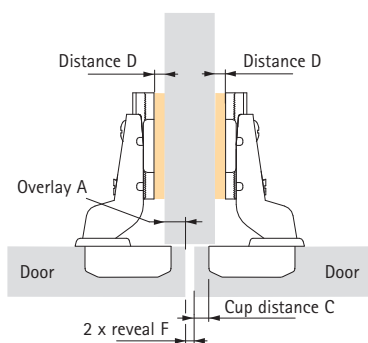
(0 mm hinge cranking)



**Distance D\* =**  
Cup distance C + 14.5 mm - overlay A

#### Half overlay

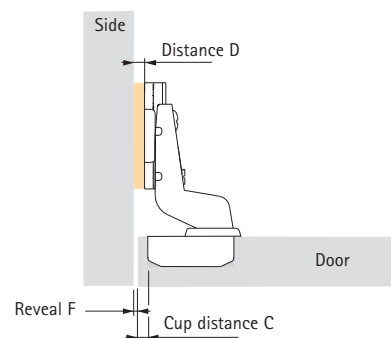
(9.5 mm hinge cranking)



**Distance D =**  
Cup distance C + 5.0 mm - overlay A

#### Inset

(16 mm hinge cranking)



**Distance D =**  
Cup distance C - 1.5 mm + reveal F

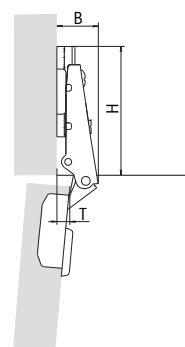
\* 0 mm hinge cranking cannot be combined with a 0 mm distance mounting plate


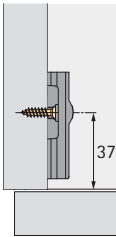

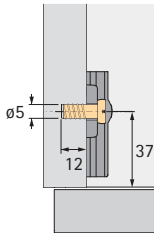

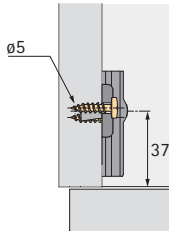
### Door protrusion (T), hinge protrusion (B) and installed hinge depth (H):

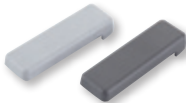
	Hinge cranking (mm)		
	K 0 mm (full overlay)	K 9.5 mm (half overlay)	K 16 mm (inset)
T* (mm)	6.0	15.5	22.0
B* (mm)	19.0	28.5	35.0
H** (mm)	54.5	54.5	54.5

\*) Measurements refer to a mounting plate with 1.5 mm distance and 3 mm cup distance. If distance changes, the "T" and "B" dimensions increase accordingly.

\*\*) Installed depth measured from inside door face



Article		Hole line mm	Distance mm	Total height mm	Order no.	PU
<b>Screw-on cross mounting plate</b> with oblong holes, hole distance $\varnothing$ 4.0 mm; hole diameter 32 mm <ul style="list-style-type: none"><li>For attachment with countersunk wood-screws, <math>\varnothing</math> 4.5 x 16 mm min.</li><li>Height adjustment: <math>\pm</math> 2 mm</li><li>Material: Steel, nickel-plated</li></ul> 		37	0.0	6.5	1 079 197*	400
			1.5	8.0	1 079 198	400
			3.0	9.5	1 079 199	400
			5.0	11.5	1 079 200	400
		*) do not use for 2333 CO				
<b>Screw-on cross mounting plate</b> with oblong holes and pre-mounted direct fixing screws 32 mm hole spacing <ul style="list-style-type: none"><li>For attachment with pre-mounted direct fixing screws</li><li>Hole diameter: <math>\varnothing</math> 5 x 12 mm</li><li>Height adjustment: <math>\pm</math> 2 mm</li><li>Material: Steel, nickel-plated</li></ul> 		37	0.0	6.5	1 079 221*	400
			1.5	8.0	1 079 222	400
			3.0	9.5	1 079 223	400
			5.0	11.5	1 079 224	400
		*) do not use for 2333 CO				
<b>Screw-on cross mounting plate Hettich-Direkt</b> with oblong holes; hole distance 32 mm <ul style="list-style-type: none"><li>For attachment with locating pins and asymmetrically pre-mounted wood-screws</li><li>Hole diameter: <math>\varnothing</math> 5 mm x 7.5 mm</li><li>Height adjustment: <math>\pm</math> 2 mm</li><li>Material: Steel, nickel-plated</li></ul> 		37	0.0	6.5	–	400
			1.5	8.0	1 079 210	400
			3.0	9.5	1 079 211	400
			5.0	11.5	1 079 212	400

Article		Colour	Order no.	PU
<b>Cover cap</b> 		black	9 037 365	2500
		grey	9 040 947	2500

### Hettich-Direkt

The Hettich-Direkt mounting plate is the ideal attachment system for centre panels in thicknesses of 15 mm and over.

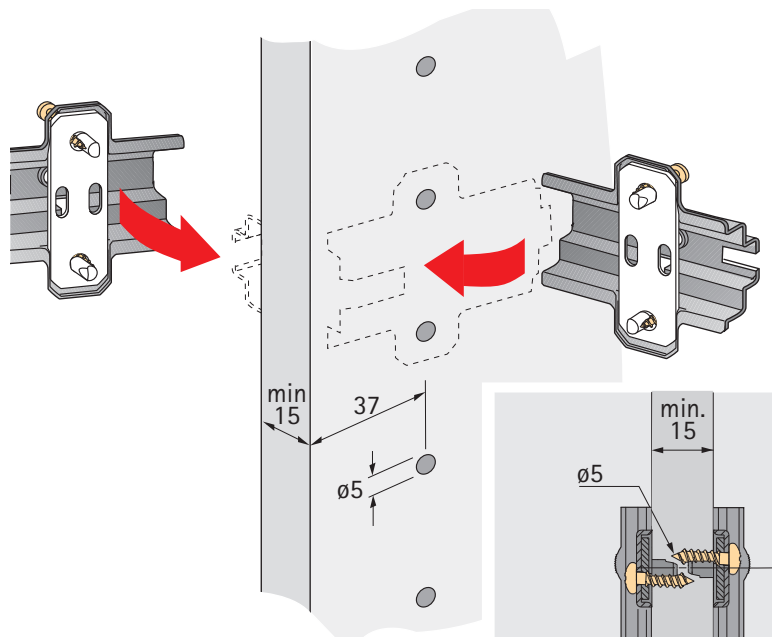
Provided with pre-mounted locating pins, the mounting plate is simply pushed into the 5 mm  $\varnothing$  hole line, seating it firmly in the hole even before it is screwed into place.

This significantly simplifies attachment to the centre panel as well as to the cabinet side.

Also pre-mounted in the mounting plate, the special screws are asymmetrically positioned, preventing them from meeting when fitted to the centre panel.

This patented solution also permits the use of longer screws in half-overlay applications. The high tear-out strength this achieves provides safety in everyday use.

The oblong holes retain full height adjustability!





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Technik für Möbel

