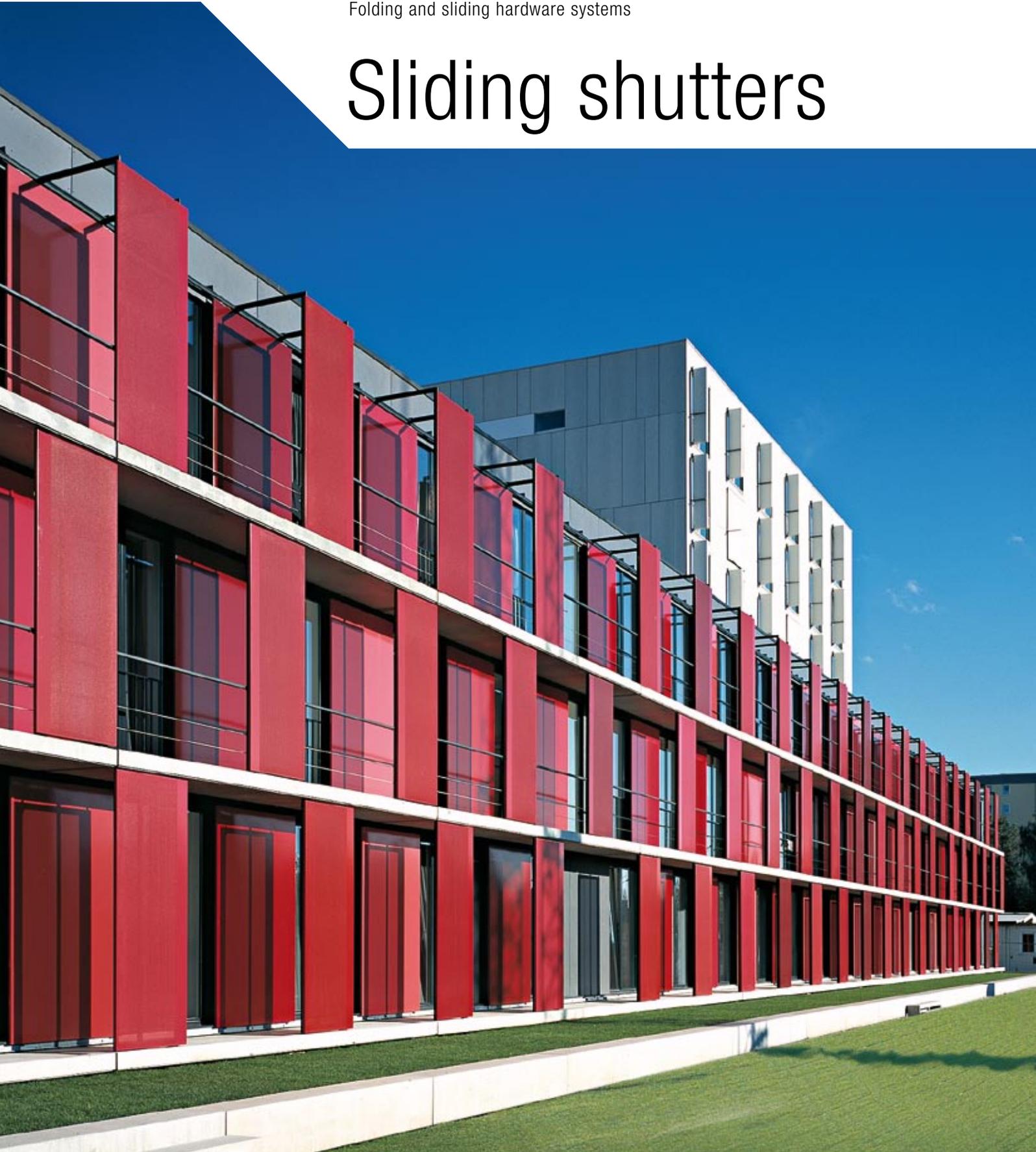


Folding and sliding hardware systems

Sliding shutters



Welcome

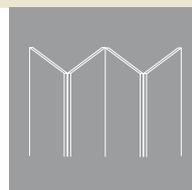
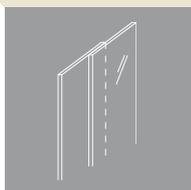
About Hawa AG

Sliding, pivoting and folding hardware has been our business since 1965. And our customers have always found fascinating applications for that hardware. Altogether, it has made us a name of international repute for glass/metal and wood architectural hardware, and hardware for wooden furniture. We and our customers settle for nothing less than Swiss quality. Despite exporting over 80% of our production, we still produce our hardware here in Mettmenstetten. This is largely due to our business philosophy, which is still based on typically Swiss values like precision, safety and durability.

About this brochure

Although sliding shutters have existed since the 14th century, they were a neglected option for many years. But those times are over, and shutters have made a huge comeback in recent years. A growing number of architects and developers now appreciate their sound insulation, screening and shading qualities, and deploy sliding shutters as deliberate styling elements in façade designs. The most unpromising expanse of wall can develop eye-catching appeal when graced with sliding shutters made of wood, plastic or metal, with single or multiple panels, plain or louvered. Hawa AG supplies top quality sliding hardware for every kind of shutter and architectural situation, all backed by a wealth of technical know-how. This brochure is designed to provide information and above all inspiration on the fascinating topic of sliding shutters. Please do not hesitate to contact us directly for in-depth information and more specific details.

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For manually operated metal or wooden sliding shutters
with retrofittable automation

HAWA - Frontslide 60/A



Light and shade according to individual taste.

The principle

To make the most of the exciting functional and design possibilities offered by contemporary sliding shutters, the solution has to be HAWA-Frontslide 60/A. There are so many convincing reasons for choosing this system: flexibility, high load-bearing capability, and HAWA's characteristically light, low-noise running and rattle-proof guides. Single and telescopic or symmetrically arranged shutters all slide with the greatest of ease. Then there is the installation time and expense saved by no less than three assembly options. And should all this sliding convenience need further enhancement one day, automation can be quickly and easily retrofitted using exactly the same basic components.



Guides are available for any shutter arrangement.



Key specifications

Max. shutter weight 60 kg (132 lbs.)

Min. shutter width 450 mm (1'5 ²³/₃₂"')

Shutter thickness 28 – 40 mm
(1 ¹/₈" – 1 ¹⁹/₃₂"')



The benefits

- Extreme ease of assembly thanks to wall, ceiling and lintel fixing options.
- Easy opening and closing in any weather, no need to lean out.
- Specially developed for outdoor use, with very high resistance to corrosion.
- Moves single, telescopic or symmetrically arranged shutters.
- Functional parts disappear behind aesthetic clip-on covers.
- Choice of bottom guides available for any shutter arrangement.
- Straightforward manual operation.
- Automation retrofittable at any time.
- Various Hawa locking options prevent shutters from opening by themselves and afford increased protection against break-ins.



Telescopic solutions for twin and multi-panel installations.



Symmetrical solutions for twin-panel installations.

For automatic metal or wooden sliding shutters

HAWA -Frontslide 60/matic

Key specifications

Max. shutter weight 60 kg (132 lbs.)

Min. shutter width 600 mm (1'11^{5/8}")

Shutter thickness 28 – 40 mm
(1^{1/8}" – 1^{19/32}")

Controller technical details

The HAWA-Control-PRO controller is compatible with central building control systems (bus system).

Master/slave mode slides up to 34 installations simultaneously.

Operating voltage 100 – 240 VAC
50 – 60 Hz

CE tested

The principle

Can HAWA-Frontslide 60/A sliding hardware be made any more convenient to use? Yes, it can. HAWA-Frontslide 60/matic with its advanced control technology adds two options for total fingertip control:

The HAWA-Control/ECO controller opens, closes and drives shutters to any desired position at the press of a button. The HAWA-Control/PRO is the top model and offers even more: four programmable timer functions with built-in randomiser (e.g. during holiday absences), external inputs for light and other sensors, and the possibility of controlling up to 34 installations in parallel. So there is plenty of scope for highly sophisticated automation concepts. And because everything has been designed and produced to work together as one system, it operates faultlessly and maintenance-free for many years.

The benefits

- Straightforward wall or ceiling fixing, maintenance-free operation.
- Highly resistant to corrosion and the elements.
- Not pieced together from all kinds of components like conventional systems, so unsusceptible to faults.
- A single drive motor moves two or more telescopic shutters or a pair of symmetrical shutters.
- Functional parts and drive components hidden behind aesthetic clip-on covers.
- Bottom guides are available for any shutter arrangement.
- Two control systems for two levels of user convenience: high and higher still.
- Exemplary safety – shutters stop and automatically back off should they encounter an obstruction.





Symmetrical solutions
for twin-panel installations.



Telescopic solutions
for twin and multi-panel installations.



The coordinated system also guarantees years of zero-maintenance and faultless operation.

For manually operated metal or wooden sliding shutters
with minimal installation height

HAWA - Frontslide 60/B

Modest space requirements
and minimal installation height.



Key specifications

Max. shutter weight 60 kg (132 lbs.)

Min. shutter width 450 mm (1'5 ²³/₃₂")

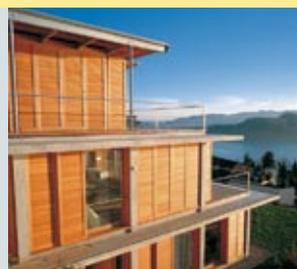
Shutter thickness 28 – 40 mm
(1 ¹/₈" – 1 ¹⁹/₃₂")

The principle

Design opportunities for extensive façades, modest space requirements, variable screening and shading – the case for sliding shutters is also the case for HAWA-Frontslide 60/B. But that is not the end of the story: this manually operated sliding masterpiece also features a patented suspension, for minimal installation height coupled with maximum efficiency of assembly. Shutter fitting, removal and height adjustment are all easily accomplished from inside the room. And thanks to the clever suspension and practically invisible wall fixing via angled profile, covers are unnecessary for a neatly finished installation.

The benefits

- Minimal installation height thanks to patented suspension cups.
- Maximum ease of assembly – fitting, removal and adjustment are all accomplished from inside the building.
- Simple wall and ceiling fitting with no need for covers.
- Very high corrosion resistance.
- Gentle, quiet running and straightforward manual operation.
- Choice of bottom guides for any shutter arrangement.
- Various Hawa locking options prevent shutters opening by themselves and afford increased protection against break-ins.



Adjustable screening and shade for expansive façade designs.

For space-saving folding/sliding window shutters

HAWA - Frontfold 20

The principle

There is sliding hardware. There is folding hardware. And then there is HAWA-Frontfold 20 which does both. Shutters based on this versatile and accomplished HAWA product fold together and park sideways at 90° to the window frontage. They can be fitted in front of windows or to an exterior balcony, with the shutters folding inwards or outwards accordingly. And not only can the folded panels be slid sideways to the wall, they also serve as windbreaks or screens. On the subject of screening: that will be unnecessary for neighbourly coexistence. With the design possibilities offered by HAWA-Frontfold 20, everyone will want to see them on show.



The perfect complement for ultra-modern architecture.

Key specifications

Max. panel weight 20 kg (44 lbs.)

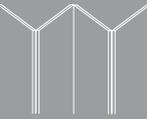
Max. panel width 600 mm (1'11 $\frac{5}{8}$ ")

Panel thickness:
wood 28 – 36 mm (1 $\frac{1}{8}$ " – 1 $\frac{7}{16}$ ")

Panel thickness:
aluminium 28 – 32 mm (1 $\frac{1}{8}$ " – 1 $\frac{9}{32}$ ")



Space-saving folding action.



Can be mounted in front of windows or balconies.

The benefits

- Space-saving, flexible and easy to install.
- Characteristic Hawa sliding and folding ease.
- Robust construction using corrosion-resistant materials.
- Folding sliding shutters may be fitted in front of windows or to an exterior balcony.
- Folding panels attach with pivot bearings on one side.
- Installations are possible with any odd or even number of panels.
- Simple locking with patented Hawa pull catch.



Elegant and simple stacking.



For bespoke solutions like stackable wooden sliding shutters

HAWA -Aperto 60/H



The principle

However pleasing sliding shutters may be, there are still situations where it is beneficial to have less on show. Just the job for HAWA-Aperto 60/H: it provides flush coverage for large windows, and stacks away elegantly and simply. Stacked parallel to the building façade, wind cannot gain purchase. To economise on space, shutters can also be parked at 90° to the sliding axis, tucked away in a balcony corner for example. With its vast flexibility, HAWA-Aperto 60/H is the ideal choice for custom plans and bespoke solutions. Just ask, and we will be happy to help your design take shape.

The benefits

- The first system on the market for parallel or 90° stacking wooden sliding shutters.
- Provides shade for even the broadest window frontages.
- Installations present a flush front when closed.
- Excellent running characteristics.
- Shutters can be moved individually and positioned anywhere.
- Flexible, individual and durable design using corrosion-resistant materials.

Reference installations

The saying «A picture says more than a thousand words» may not always hold true. Nonetheless, having provided you with some detailed information on our sliding shutter solutions, we would like to let a few pictures speak for themselves. You can see just how well architectural highlights and sliding shutters fit together with Hawa hardware. And nothing would please us more than to one day be able to include your project in our list of references.



Casa Alberto, Leuk, Switzerland.



Apartment house, Zürich, Switzerland.



Children's day-care centre, Vienna, Austria.



Children's day-care centre, Delitzsch, Germany.



Obwaldner Kantonalbank, east and west façades, Sachseln, Switzerland.

Semidetached residence, Cham, Switzerland.

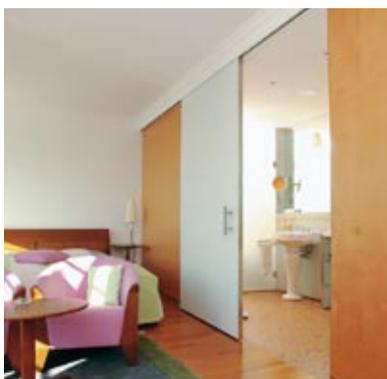


Akazienhof housing development, Zürich, Switzerland.

We not only move sliding shutters

Folding and sliding hardware for wooden applications

Doors, walls, panel fronts – wood is the answer. Especially when you put them together using Hawa sliding hardware. We have an off-the-shelf solution for virtually every application, whether you want especially light-action sliding doors, room dividers, or sliding walls that park away in the furthest corner of an apartment.



Folding and sliding hardware for glass/metal applications

Defining and optimising spaces, saving time – our glass/metal hardware carries an impact far beyond its sliding or folding action. Whatever you expect of a hardware solution, our diverse product range is your best choice in any situation.



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