



Inspiring sliding solutions on buildings

Product overview and details



Rethink your space.

Inspiring solutions on buildings

Hawa Frontslide

Hawa Frontfold

4 The world of sliding

- 4 Areas of application and forms
- 6 Sliding solutions on buildings

8 Solutions for sliding shutters

8 Hawa Frontslide

- 10 Hawa Frontslide 60 A
- 14 Hawa Frontslide 60 A Symmetric 2
- 19 Hawa Frontslide 60 A Symmetric 2+2
- 25 Hawa Frontslide 60 A Telescopic 2
- 29 Hawa Frontslide 60 A Telescopic 3
- 33 Hawa Frontslide 60 A Telescopic 4
- 37 Hawa Frontslide 60 A Low running track
- 40 Hawa Frontslide 60 B
- 43 Hawa Frontslide 60 Matic
- 48 Hawa Frontslide 60 Matic Symmetric 2
- 54 Hawa Frontslide 60 Matic Symmeric 2+2
- 60 Hawa Frontslide 60 Matic Telescopic 2
- 66 Hawa Frontslide 60 Matic Telescopic 3
- 72 Hawa Frontslide 60 Matic Telescopic 4
- 78 Hawa Frontslide 100 A
- 81 Hawa Frontslide 100 A Symmetric 2
- 85 Hawa Frontslide 100 A Symmetric 2+2
- 90 Hawa Frontslide 100 A Telescopic 2
- 94 Hawa Frontslide 100 A Telescopic 3
- 98 Hawa Frontslide 100 A Telescopic 4
- 102 Hawa Frontslide 100 A Low running track
- 105 Hawa Frontslide 100 Matic
- 110 Hawa FrontsIdie 100 Matic Symmetric 2
- 115 Hawa Frontslide 100 Matic Symmetric 2+2
- 121 Hawa Frontslide 100 Matic Telescopic 2
- 127 Hawa Frontslide 100 Matic Telescopic 3
- 133 Hawa Frontslide 100 Matic Telescopic 4
- 139 Hawa Frontslide 140 A
- 142 Hawa Frontslide 140 A Symmetric 2
- 146 Hawa Frontslide 140 A Telescopic 2
- 150 Hawa Frontslide 140 Matic
- 155 Hawa Frontslide 140 Matic Symmetric 2
- 160 Hawa Frontslide 140 Matic Telescopic 2

166 Solutions for folding sliding shutters

166 Hawa Frontfold

- 168 Hawa Frontfold 30 FS uo
- 172 Hawa Frontfold 30 FS oo
- 177 Hawa Frontfold 30 MS uo
- 181 Hawa Frontfold 30 MS oo
- 186 Hawa Frontfold 30 IS

190 Accessories

190 Hawa Frontslide Bolts

194 Order overview

194 Hawa Frontfold Order overview

196 Product overview on buildings

- 198 Technical information
- 199 Contacts
- 200 Product overview On buildings, in buildings, on furniture

Protection of trademarks/Copyright

Hawa is a trademark registered in the name of Hawa Sliding Solutions AG. The names Junior, Concepta, Clipo and Frontino are product family names either registered in the name of Hawa Sliding Solutions AG, or to which Hawa Sliding Solutions AG claims exclusive rights of use in connection with its products and services. The contents of this publication, including all photographs and graphics are protected by copyright, and may not be copied, modified or otherwise used without the explicit consent of Hawa Sliding Solutions AG.

General Terms and Conditions

Sales, delivery, and payment terms are subject to the general terms and conditions of Hawa Sliding Solutions AG, which can be found under www.hawa.com.

Areas of application and forms



Creative and functional added value on buildings, in buildings and on furniture

Access for light, air and people must be created and implemented in every building, room and furniture item. Sliding solutions are the superior approach for aesthetic, functional and cost-effective design.



Architecture comes

- Folding sliding shutters

to life.

- Sliding shutters

_ In buildings

Rooms become flexible and of high quality.

- Sliding doors
- Sliding walls
- Folding sliding walls
- Showers



The right application for every design idea.

- Sliding doors
- Pivot and folding/sliding doors
- Folding sliding doors

Specific types of sliding solve every task for every environment.

Parallel sliding alone isn't enough to cover every need. Therefore, we have developed extended solutions such as folding, pivoting, slide-in and stacking.









Pivot sliding

Sliding and stacking

A statement that communicates thinking and acting simultaneously

ω,

The façade is the face of the building. Sliding technologies enable the individual presentation of the client's personality. At the same time, they offer numerous opportunities to increase the functional benefits and energy efficiency of buildings.

How you build says a lot about you Sliding solutions for use on buildings give façades a unique look

Architecture is brought to life by the people who experience and use it. It does not just give the building its aesthetic form, but also creates added value which first manifests itself during everyday living and working.

The face of a building is given variable expressions by means of sliding technology. Regardless of whether the façade is to be open or closed depending on the time of day, whether it needs to withstand certain climatic influences or it needs to convey a unique architectural idea – sliding technology is the key to the best and most individual solution.

Sliding on buildings has many facets.

- Versatile solution for sliding shutters and window fittings
- Wide range of options for design and temperature management
- Open to every conceivable material

Façades are brought to life.

Architects and designers can connect the exterior advantages of a building with captivating interior values, be it with Hawa Frontslide – the fitting for sliding shutters with a wide range of design options or with Hawa Frontfold – the folding sliding fitting which opens up the full potential of façades.

A general overview of all solutions for sliding on buildings is provided in the product overview starting on page 196.



Free view to the outside Privacy should only work in one direction.



Shadow wanders Sliding applications provide shade as the sun travels across the sky.



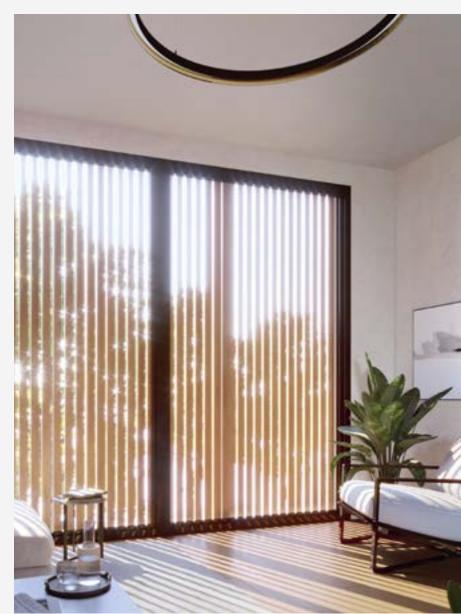
Individuality lives The flexible design of the façade gives a building more than just one face.



Climate protection on buildings Sliding solutions reduce expensive measures for heating or cooling.

Hawa Frontslide for sliding shutters The right sliding shutter for every façade

Be it wooden, metal or plastic shutters, small or large areas, protection from the sun or privacy: There is a made-to-measure Hawa Frontslide for every requirement and every building situation. For example, the single-leaf version as a visually irresistible, space-saving solution for doors weighing up to 60, 100 or 140 kg. Then there are the Symmetric versions, which make it possible to move two or four sliding shutters synchronously. And the sophisticated Hawa Frontslide Telescopic, which moves up to four shutters simultaneously with one movement. And all of this is available in both manual and maintenance-free automatic versions with building control interface, which are supported by the quietest sliding shutter drive on the market. The wind and weather resistance is also impressive: Hawa Frontslide has been tested for corrosion resistance and certified for wind resistance class 6.



Area of application

High-quality, convenient privacy and sun protection in automatic and manual versions, also with SMI interface, for aesthetic façade design for residential and commercial buildings.

System advantages

Ilexibility	Single-leaf, telescopic or symmetrical sliding shutters for door weights up to 60, 100 and 140 kg Wide range of accessories for practically any building situation
Productivity	Minimal start-up expenditure with the automatic version thanks to pre-mounted Hirschmann plug and automatic teach-in run Identical installation sequence for all weight classes Many identical components for all versions
🕁 Comfort	Automated systems with building control interface
Aesthetics	Exciting façade design accents Simple, uniform appearance for manual and automatic sliding shutters

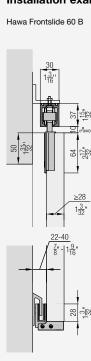
Technical specifications

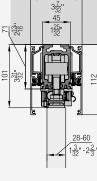
\triangle	max.	60/100/140 kg
$\stackrel{\wedge}{\downarrow}$	max.	3200 mm
$\stackrel{\leftarrow}{\longrightarrow}$	min.	400 mm
$\rightarrow \left[\left[\leftarrow \right. \right.$		28–60 mm

Good to know (accessories)

- Bolts

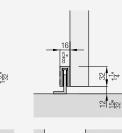
Installation examples





1

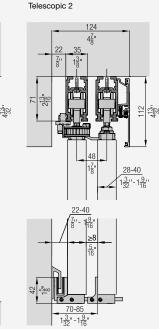
Hawa Frontslide 140 matic



_

Product range Hawa Frontslide 60 B

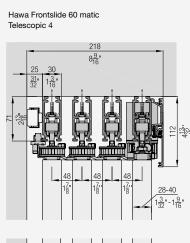
Hawa Frontslide 60 matic Symmetric Hawa Frontslide 100 matic Symmetric Hawa Frontslide 140 matic Symmetric

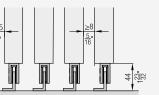


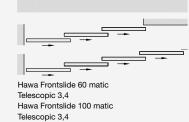
Hawa Frontslide 100 A



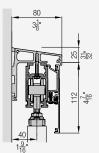
Hawa Frontslide 60 A Telescopic 2, Symmetric 2+2 Hawa Frontslide 100 A Telescopic 2, Symmetric 2+2 Hawa Frontslide 140 A Telescopic 2



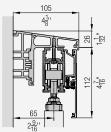




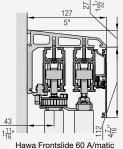
Fastening



Hawa Frontslide 60 A/matic



Hawa Frontslide 60 A/matic

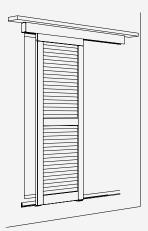


Fitting for top-running wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

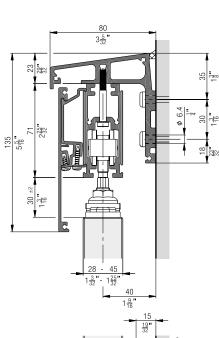
Pro	duct highlights	
٢	Aesthetics	Attractive design solution for exciting and modern façade design
0	Security	The shutters withstand even stormy winds, both open and closed

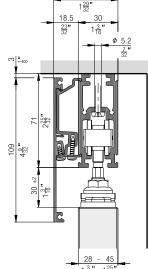
Technical specifications

\triangle	Max.	60 kg (132 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		400–3750 mm (1' 3 3/4'' to 12' 3 5/8'') (Max. shutter area 9.6 m² (103 ft²))
→∏←		28–45 mm (1 3/32'' to 1 25/32'')

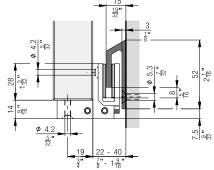


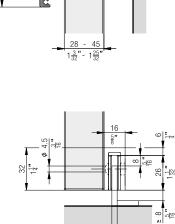
Installation examples



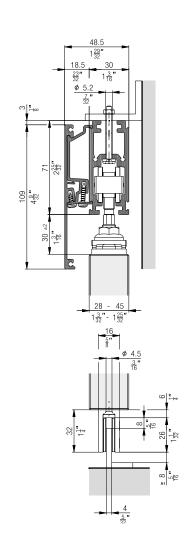


48.5





4 5 32



Set for 1 sliding shutter up to 60 kg (132 lbs.)

			No.
Hawa Frontslide	e 60 A, for 1 sliding shutter		25117
Set consisting of:		No.	
	Two-wheeled running gear, M8, plastic wheels	2	17119
	Top fixing plate, with suspension bolt M8, stainless steel	2	24562
A A A A A A A A A A A A A A A A A A A	Track stop, with adjustable retainer	2	17027

Running tracks

		mm (inch)	No.
	Running track, aluminum, anodized, pre-drilled	3500 (11' 5 25/32'')	24839
		6000 (19' 8 7/32'')	24795
	p. c 4c	cut to size	24796

Guide tracks

		mm (inch)	No.
	Guide track,	6000 (19' 8 7/32'')	24460
	aluminum, anodized, pre-drilled	cut to size	24462

Angled profile for 1 sliding level

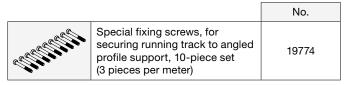
		mm (inch)	No.
	Angled profile for one sliding level,	6000 (19' 8 7/32'')	21378
	aluminum, anodized, pre-drilled	cut to size	21379
	Angled profile for one sliding level,	6000 (19' 8 7/32'')	21380
	aluminum, pre-drilled	cut to size	21381

Connecting pins for running tracks and angled profiles

		No.
MA	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles

The special mounting screw must be used for optimum attachment of the running track to the angled support profile.



Spacer profiles

		mm (inch)	No.	
	Spacer profile for angled profile	6000 (19' 8 7/32'')	19724	
	support, aluminum, anodized	cut to size	19727	

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel, aluminum	6000 (19' 8 7/32'')	24810
		cut to size	24811

Panel attachment components

		No.	
A CONTRACTOR	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767	

Guides

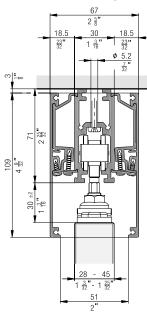
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542



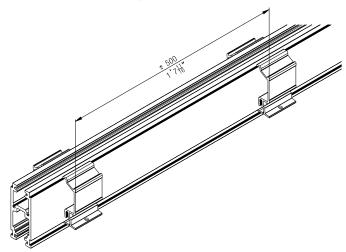
Accessories

		No.
5	Front cover plates, ceiling mounting, aluminum, anodized, 1 pair	24573
248 888 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Front cover plates, ceiling mounting, aluminum, 1 pair	24575
r for the second s	Front cover plates, wall mounting without spacer profile, aluminum, anodized, 1 pair	24577
	Front cover plates, wall mounting without spacer profile, aluminum, 1 pair	24580
· · · · · · · · · · · · · · · · · · ·	Front cover plates, wall mounting with spacer profile, aluminum, anodized, 1 pair	24583
	Front cover plates, wall mounting with spacer profile, aluminum, 1 pair	24586

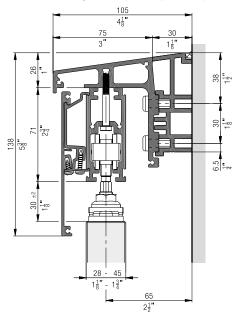
Architrave mounting



Panel attachment component installation

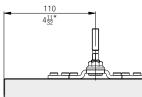


Wall mounting with spacer profile (weatherboard)

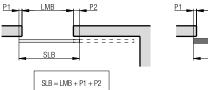


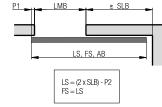
Suspension points





Sliding shutter width calculations

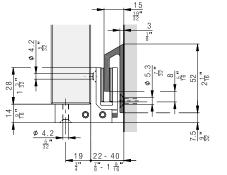


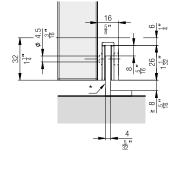


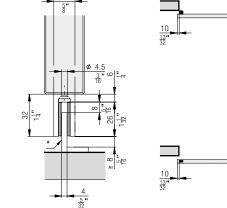
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track



Guides







10

* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670

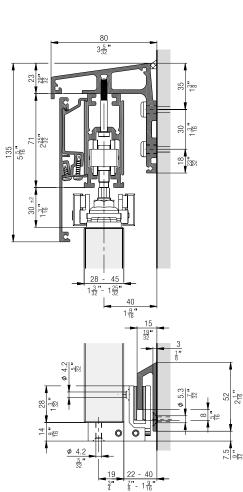
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

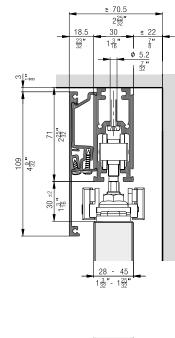
Fitting for 2 symmetrically opening wooden or metal shutters up to 60 kg (132 lbs.). With screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

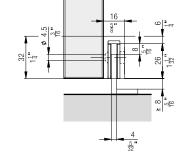
Pro	duct highlights		
٢	Aesthetics	Attractive design solution for exciting and modern façade design	
• Tec	Security hnical specifica	The shutters withstand even stormy winds, both open and closed tions	
\triangle	Max.	60 kg (132 lbs.)	
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
\leftrightarrow		00 mm (1' 7 11/16'' to 4' 11 1/16'') Max. shutter area 3.84 m² (41 ft²))	
→[]←		28–45 mm (1 3/32'' to 1 25/32'')	

Installation examples

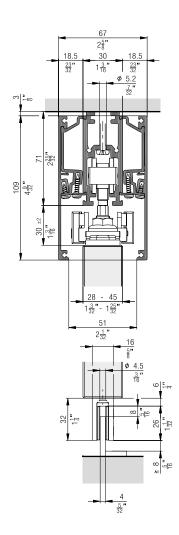


4





21



Set for 2 sliding shutters up to 60 kg (132 lbs.)

			No.
	Hawa Frontslide 60 A Symmetric 2, for 2 sliding shutters		25118
Set consisting	of:	25118	No.
<u>·</u> ··	Two-wheeled running gear, M8, plastic wheels	4	17119
	Top fixing plate, with suspension bolt M8, stainless steel	4	24562
	Track stop, with adjustable retainer	1	17027
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
	Driver, laterally adjustable for manual systems	1	20353
	Toothed belt lock for manual systems	1	20352

Toothed belt

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
		cut to size	24796

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
·	pre-drilled	cut to size	24462

Angled profile for 2 sliding levels

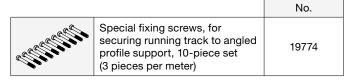
		mm (inch)	No.
	Angled profile for one sliding level,	6000 (19' 8 7/32'')	21378
	aluminum, anodized, pre-drilled	cut to size	21379
	Angled profile for	6000 (19' 8 7/32'')	21380
	one sliding level, aluminum, pre-drilled	cut to size	21381

Connecting pins for running tracks and angled profiles

		No.
MA	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles

The special mounting screw must be used for optimum attachment of the running track to the angled support profile.



Spacer profiles

		mm (inch)	No.
	Spacer profile for angled profile	6000 (19' 8 7/32'')	19724
	support, aluminum, anodized	cut to size	19727

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

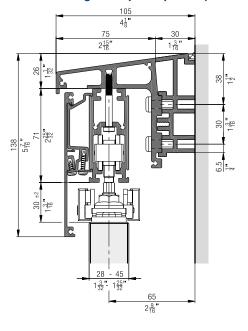
		No.
A STATE OF	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
and a state of the	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
00	Guide slider, for screw fixing	24542

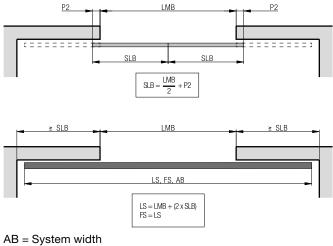
Accessories

		No.
asasasas	Front cover plates, ceiling mounting, aluminum, anodized, 1 pair	24573
	Front cover plates, ceiling mounting, aluminum, 1 pair	24575
	Front cover plates, wall mounting without spacer profile, aluminum, anodized, 1 pair	24577
	Front cover plates, wall mounting without spacer profile, aluminum, 1 pair	24580
	Front cover plates, wall mounting with spacer profile, aluminum, anodized, 1 pair	24583
	Front cover plates, wall mounting with spacer profile, aluminum, 1 pair	24586



Wall mounting with spacer profile (weatherboard)

Sliding shutter width calculations



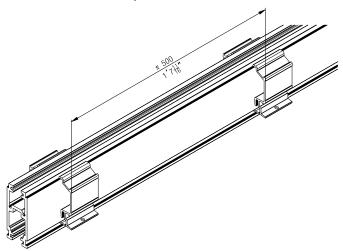
LMB = Inside clearance

- AL = Number of sliding shutters
- SLB = Sliding shutter width

P = Sliding shutter overlap

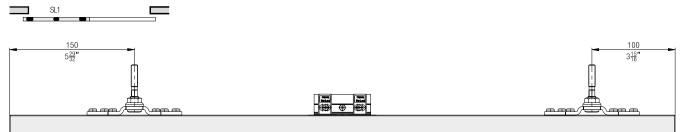
- LS = Running track
- FS = Guide track

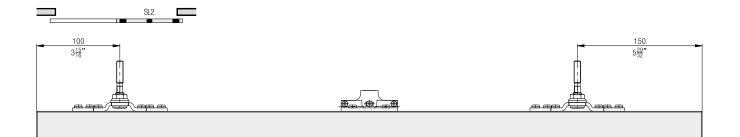
Panel attachment component installation



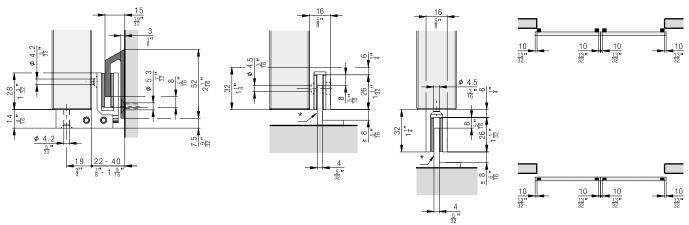
Hawa Frontslide 60 A Symmetric 2

Suspension points





Guides



* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

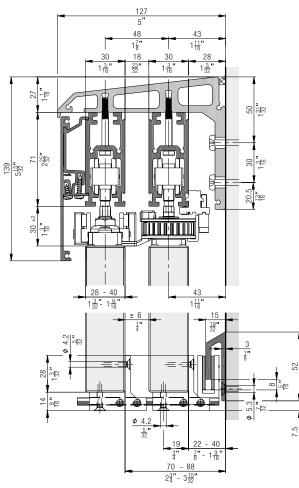
Fitting for 4 symmetrically opening wooden or metal shutters up to 40 kg (88 lbs.). With screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

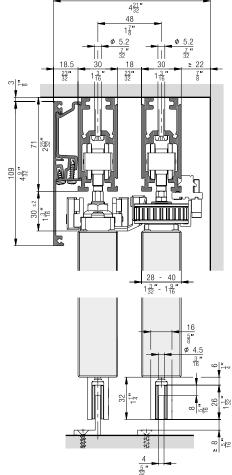
Pro	duct highlights	
٢	Aesthetics	Attractive design solution for exciting and modern façade design
0	Security	The shutters withstand even stormy winds, both open and closed

Technical specifications

\triangle	Max.	40 kg (88 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		550–1000 mm (1' 9 21/32'' to 3' 3 3/8'') (Max. shutter area 3.2 m² (34 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')

Installation examples

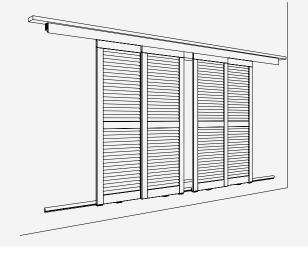




≥ 118.5



-¦₽



Set for 4 sliding shutters up to 60 kg (132 lbs.)

			No.
Hawa Frontslide 60 A Symmetric, for 2 sliding shutters			25119
Set consisting of:		No.	
	Two-wheeled running gear, M8, plastic wheels	8	17119
000 Martin	Top fixing plate, with suspension bolt M8, stainless steel	8	24562
	Track stop, with adjustable retainer	3	17027
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
9	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver counter-plate, wide	2	20246
	Driver, wide	2	20141
	Driver, laterally adjustable for manual systems	1	20353
	Toothed belt lock for manual systems	1	20352
	Clamp for toothed belt	2	24777
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	2	20208

Toothed belt Toothed belt length calculation: 2 x system width

		No.
Ø	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
- W	p. c aca	cut to size	24796

Г

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
·	pre-drilled	cut to size	24462

Angled profile for 2 sliding levels

		mm (inch)	No.
	Angled profile for two sliding level, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	21384
		cut to size	21385
	Angled profile	6000 (19' 8 7/32'')	21386
	for two sliding level, aluminum, pre-drilled	cut to size	21387

Connecting pins for running tracks and angled profiles

		No.
M	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles The special mounting screw must be used for optimum attachment of the running track to the angled support profile.

	No.
Special fixing screws, for securing running track to angled profile support, 10-piece set (3 pieces per meter)	19774

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

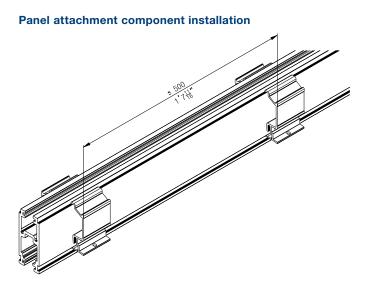
		No.
A State of the sta	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

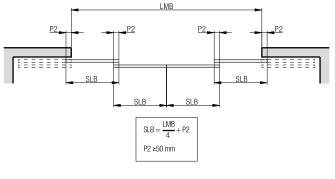
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
00	Guide slider, for screw fixing	24542

Accessories

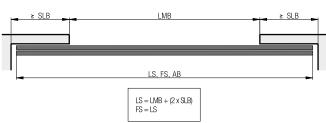
	No.
Front cover plates for two sliding levels, wall fitting, aluminum, anodized, 1 pair	24821
 Front cover plates for two sliding levels, wall fitting, aluminum, 1 pair	24824

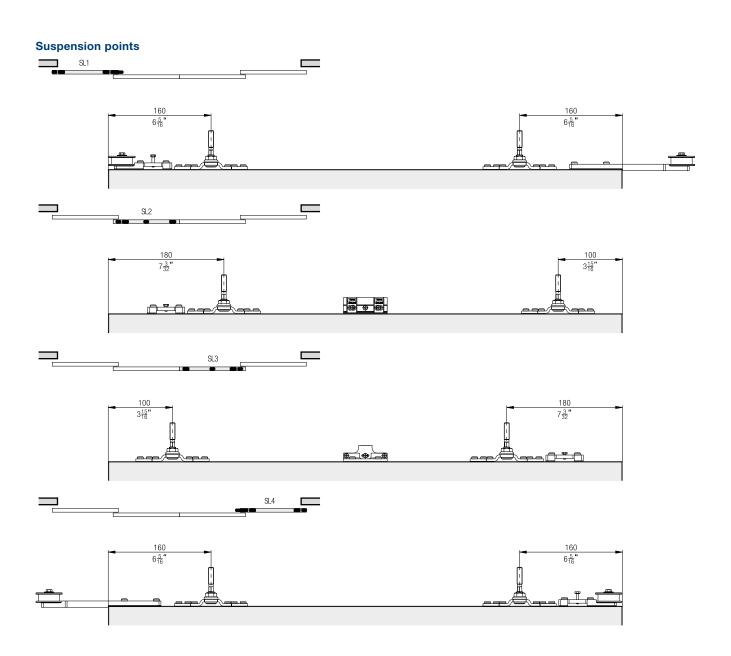


Sliding shutter width calculations

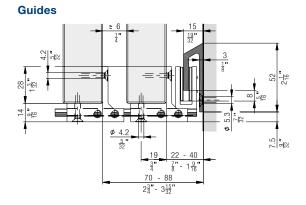


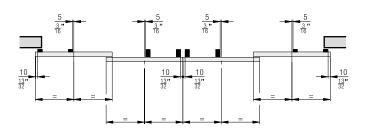
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track

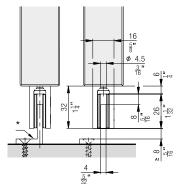


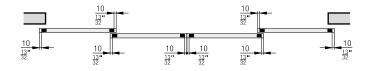


Hawa Frontslide 60 A Symmetric 2+2









* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Fitting for 2 wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

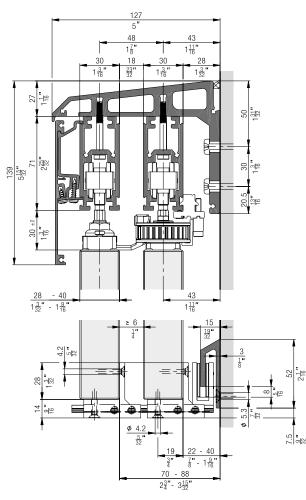
Product highlights

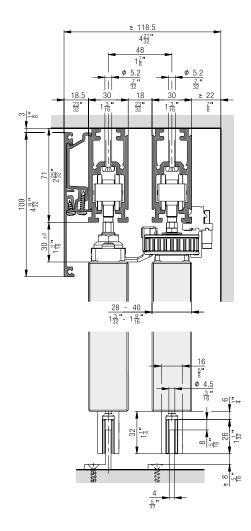
٢	Aesthetics	Attractive design solution for exciting and modern façade design
9	Security	The shutters withstand even stormy winds, both open and closed

Technical specifications

\triangle	Max.	60 kg (132 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		550–1200 mm (1' 9 21/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
$\rightarrow \parallel \leftarrow$		28–40 mm (1 3/32'' to 1 9/16'')

Installation examples





-K

Set for 2 sliding shutters up to 60 kg (132 lbs.)

			No.
Hawa Frontslide 60 A Telescopic, for 2 sliding shutters		25120	
Set consisting of: 22		No.	
	Two-wheeled running gear, M8, plastic wheels	4	17119
	Top fixing plate, with suspension bolt M8, stainless steel	4	24562
R R R R R R R R R R R R R R R R R R R	Track stop, with adjustable retainer	2	17027
	Clamp for toothed belt	1	24777
	Guide pulley wheel, with fixing plate, long	1	20139
	Guide pulley wheel, with fixing plate, short	1	20140
	Driver, wide	1	20141
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208

Running tracks

		mm (inch)	No.
//		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
		cut to size	24796

Guide tracks

		mm (inch)	No.	
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460	
Í	pre-drilled	cut to size	24462	

Angled profile for 2 sliding levels

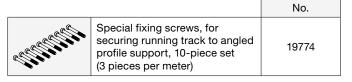
		mm (inch)	No.
	Angled profile for two sliding level,	6000 (19' 8 7/32'')	21384
	aluminum, anodized, pre-drilled		21385
	Angled profile for two sliding level, aluminum, pre-drilled	6000 (19' 8 7/32'')	21386
		cut to size	21387

Connecting pins for running tracks and angled profiles

		No.
MA	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles

The special mounting screw must be used for optimum attachment of the running track to the angled support profile.



Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
/	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808 24809
		cut to size	
↓∕	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A Contraction	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

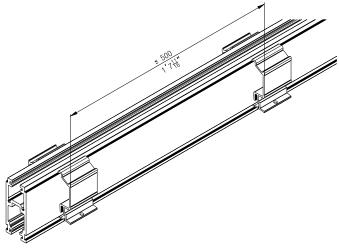
Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

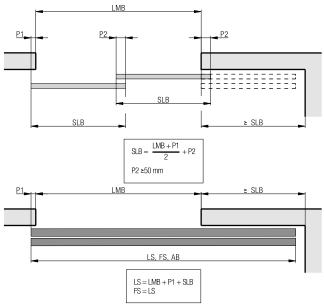
Accessories

		No.
in the second	Front cover plates for two sliding levels, wall fitting, aluminum, anodized, 1 pair	24821
	Front cover plates for two sliding levels, wall fitting, aluminum, 1 pair	24824

Panel attachment component installation

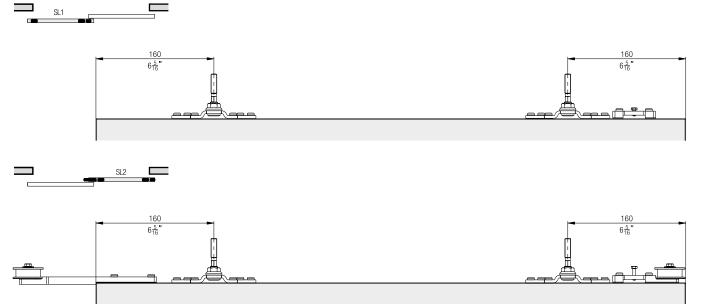


Sliding shutter width calculations

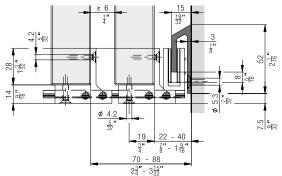


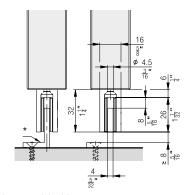
- AB = System width
- LMB = Inside clearance AL = Number of sliding shutters
- SLB = Sliding shutter width
- P = Sliding shutter overlap
- LS = Running track
- FS = Guide track

Suspension points



Guides

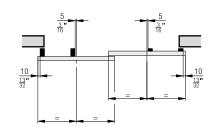


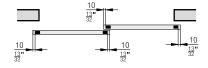


* to be provided by customer

Accessories

- Sliding shutter bolts from page 190





Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Fitting for 3 wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting.

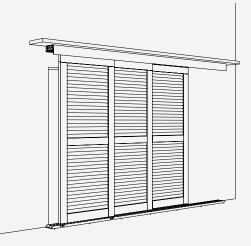
Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
9	Security	The shutters withstand even stormy winds,

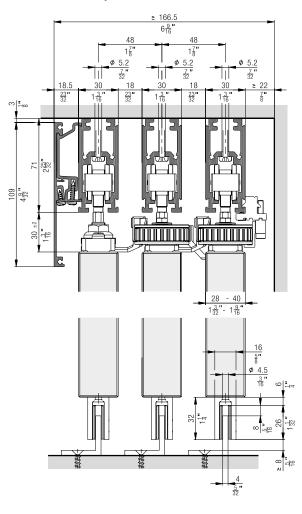
both open and closed

Technical specifications

\triangle	Max.	60 kg (132 lbs.)
$\stackrel{\uparrow}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		550–1200 mm (1' 9 21/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



Set for 3 sliding shutters up to 60 kg (132 lbs.)

		No.	
Hawa Frontslide 60 A Telescopic, for 3 sliding shutters		25121	
Set consisting of:		25121	No.
	Two-wheeled running gear, M8, plastic wheels	6	17119
0000 March 1000	Top fixing plate, with suspension bolt M8, stainless steel	6	24562
R R R R	Track stop, with adjustable retainer	2	17027
	Clamp for toothed belt	1	24777
	Guide pulley wheel, with fixing plate, long	2	20139
and the second s	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
8	Driver, narrow	1	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	2	20208

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
*		cut to size	24796

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel, aluminum	6000 (19' 8 7/32'')	24810
		cut to size	24811

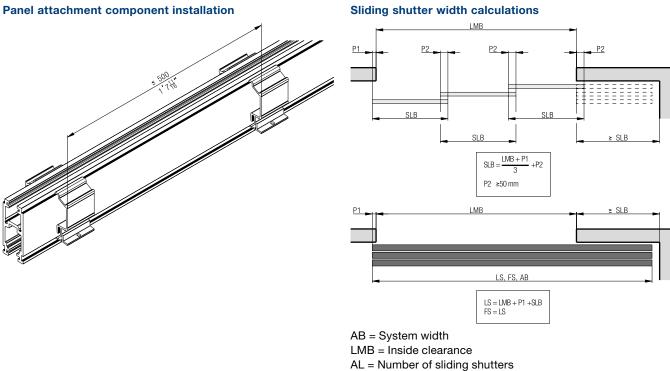
Panel attachment components

		No.	
A CONTRACTOR OF THE OWNER	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767	

П

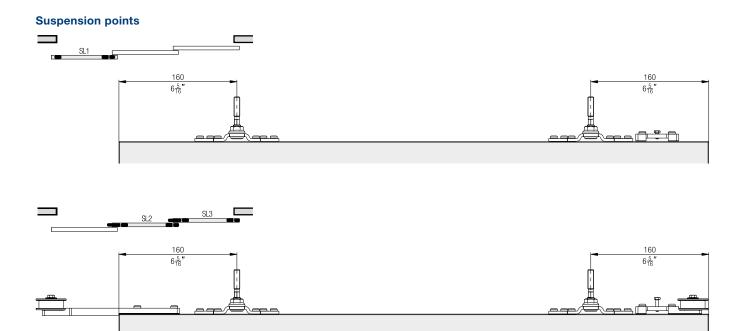
Guides

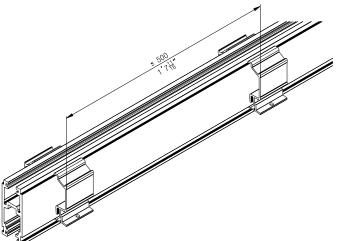
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542



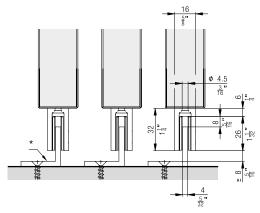
SLB = Sliding shutter width

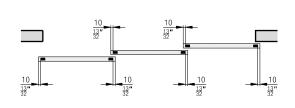
- P = Sliding shutter overlap
- LS = Running track
- FS = Guide track





Guides





* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Fitting for 4 wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting.

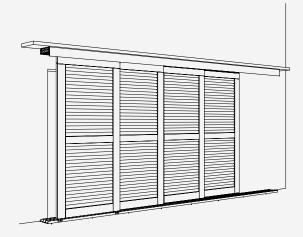
Product highlights

Aesthetics	Attractive design solution for exciting and
	modern façade design

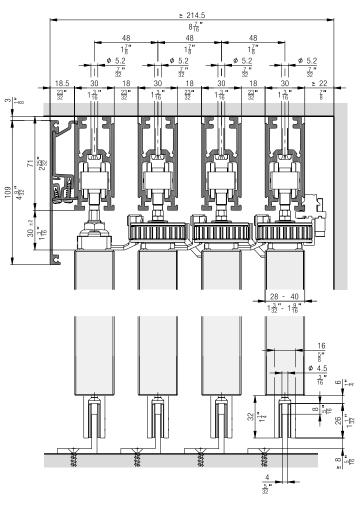
SecurityThe shutters withstand even stormy winds,
both open and closed

Technical specifications

\triangle	Max.	60 kg (132 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		550–1200 mm (1' 9 21/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→∏←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



Set for 4 sliding shutters up to 60 kg (132 lbs.)

			No.
Hawa Frontslide 60 A Telescopic, for 4 sliding shutters		25122	
Set consisting of:		25122	No.
	Two-wheeled running gear, M8, plastic wheels	8	17119
	Top fixing plate, with suspension bolt M8, stainless steel	8	24562
	Track stop, with adjustable retainer	2	17027
The second se	Clamp for toothed belt	1	24777
	Guide pulley wheel, with fixing plate, long	3	20139
	Guide pulley wheel, with fixing plate, short	3	20140
	Driver, wide	3	20141
8	Driver, narrow	2	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	3	20208

Running tracks

		mm (inch)	No.
	Running track, aluminum, anodized, pre-drilled	3500 (11' 5 25/32'')	24839
		6000 (19' 8 7/32'')	24795
		cut to size	24796

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Panels

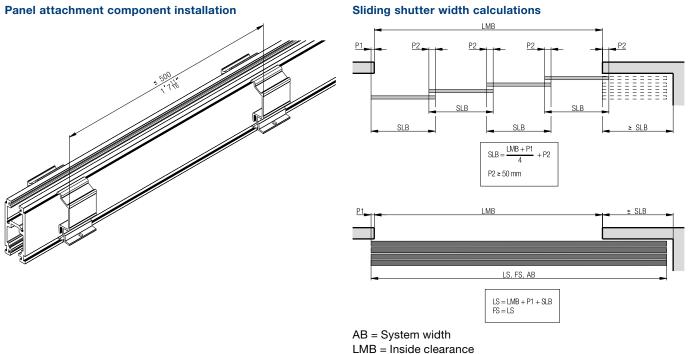
		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel, aluminum	6000 (19' 8 7/32'')	24810
		cut to size	24811

Panel attachment components

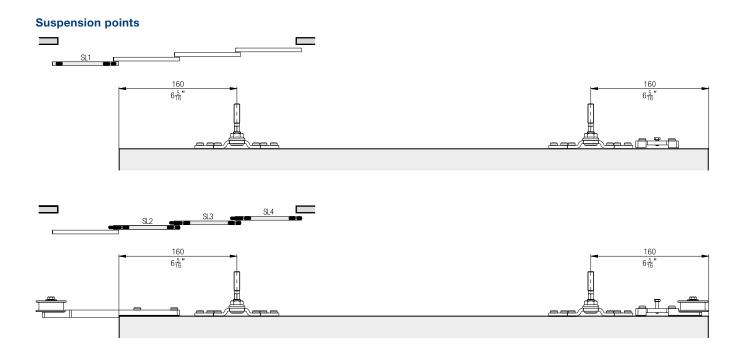
		No.	
A CONTRACTOR OF THE OWNER	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767	

Guides

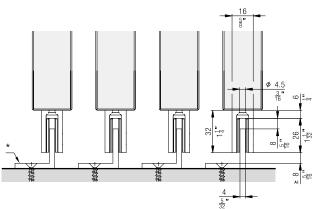
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

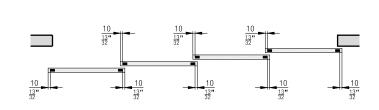


- LMB = Inside clearance AL = Number of sliding shutters SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track
- FS = Guide track









* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

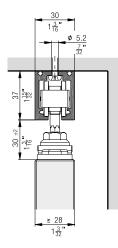
Fitting for top-running wooden or metal shutters up to 60 kg (132 lbs.), with low running track. Ceiling or architrave mounting.

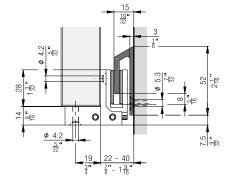
٢	Aesthetics	Minimal rail height	
0	Security	The shutters withstand even stormy winds, both open and closed	
Tec	hnical specifica	itions	
\triangle	Max.	60 kg (132 lbs.)	
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
$\stackrel{\leftarrow}{=}$		-3750 mm (1' 3 3/4'' to 12' 3 5/8'') Max. shutter area 9.6 m² (103 ft²))	
→[]←		≥28 mm (1 3/32'')	

Technical spec Max.

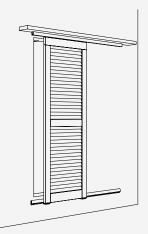
Product highlights

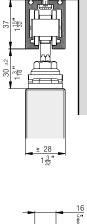
Instal	lation	examp	les

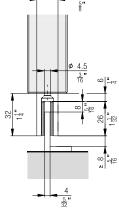












Set for 1 sliding shutter up to 60 kg (132 lbs.)

			No.
Hawa Frontslide for 1 sliding shu	e 60 A, tter with lower running track		25217
Set consisting	of:	25217	No.
	Two-wheeled running gear, M8, plastic wheels	2	17119
	Top fixing plate, with suspension bolt M8 for lower running track, stainless steel	2	25196
S S S S S S S S S S S S S S S S S S S	Track stop, with adjustable retainer	2	17027

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Running tracks

		mm (inch)	No.
		2500 (8' 2 7/16'')	24842
	Lower running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24802
*1/	F	cut to size	24803

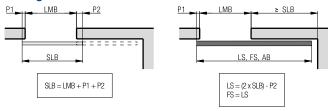
Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track,	6000 (19' 8 7/32'')	24460
1	aluminum, anodized, pre-drilled	cut to size	24462

Sliding shutter width calculations

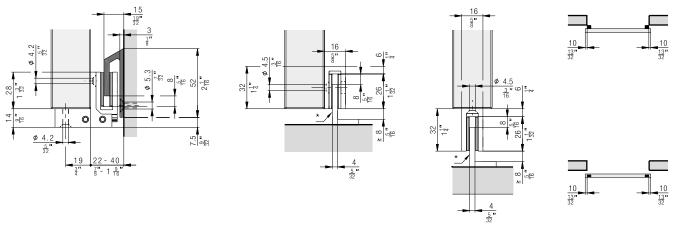


AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track

Suspension points



Guides



* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

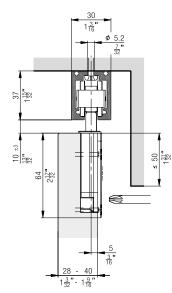
Fitting for top-running wooden or metal shutters up to 60 kg (132 lbs.). Ceiling or architrave mounting. Minimal installation height.

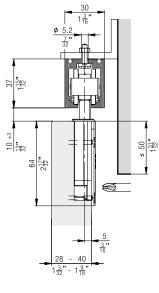
Prod	luct highlights		
٢	Aesthetics	Minimal gap between shutter and track	
-	Aesthetics nical specifica	Attractive design solution for exciting and modern façade design	
\triangle	Max.	60 kg (132 lbs.)	
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
$\leftarrow \rightarrow$		–3750 mm (1' 3 3/4'' to 12' 3 5/8'') Max. shutter area 9.6 m² (103 ft²))	
∠∏د		28–40 mm (1.3/32'' to 1.9/16'')	

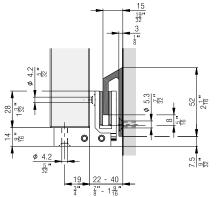
T

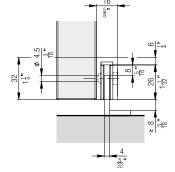
\square	Max.	60 kg (132 lbs.)
$\mathop{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		400–3750 mm (1' 3 3/4'' to 12' 3 5/8'') (Max. shutter area 9.6 m² (103 ft²))
→∏←		28–40 mm (1 3/32'' to 1 9/16'')

Installation examples









Set for 1 sliding shutter up to 60 kg (132 lbs.)

			No.
Hawa Frontslide	e 60 B, for 1 sliding shutter		19871
Set consisting of:			No.
	Two-wheeled running gear, M8, plastic wheels	2	17119
	Concealed press-fit cup, with hanger bolt M8, aluminum	2	19900
	Track stop, with adjustable retainer	2	17027

Running tracks

		mm (inch)	No.
		2500 (8' 2 7/16'')	24842
	Lower running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24802
*1		cut to size	24803

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

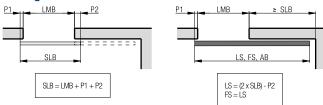
Guide tracks

	mm (inch)	No.
Guide track,	6000 (19' 8 7/32'')	24460
aluminum, anodized, pre-drilled	cut to size	24462

Guides

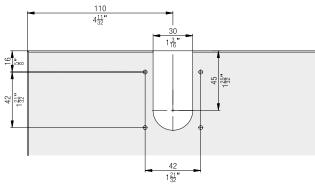
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

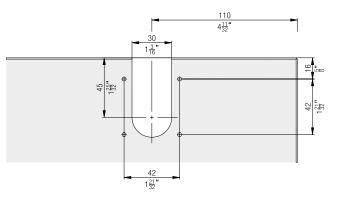
Sliding shutter width calculations

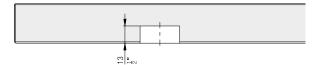


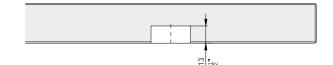
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track

Suspension points

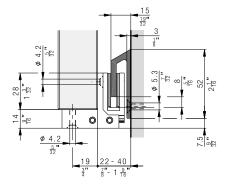


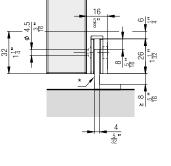


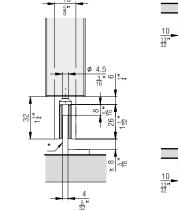


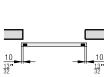


Guides









10

* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

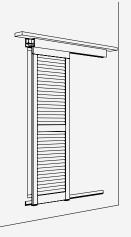
Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

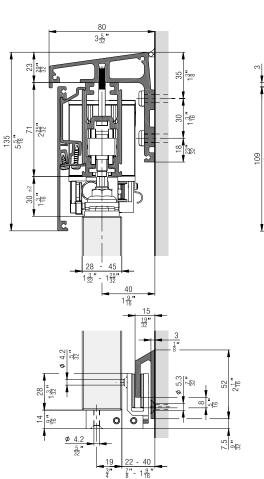
Automated fitting with SMI interface for wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

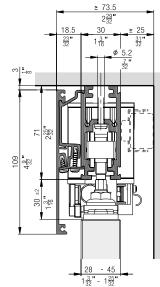
Prod	uct highlights		
Ŷ	Comfort	Automated system with building control interface Optimized individual use of daylight	
0	Security	Extremely robust sliding shutter that has been tested for 100,000 cycles High resistance to wind and corrosion	
Technical specifications			
\triangle	Max.	60 kg (132 lbs.)	

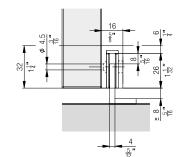
\uparrow	Max.	3200 mm (10' 5 31/32'')
\leftrightarrow		600–3750 mm (1' 11 5/8'' to 12' 3 5/8'')
		(max. shutter area 6.24 m ² (67 ft ²))
→[]←		28–45 mm (1 3/32'' to 1 25/32'')

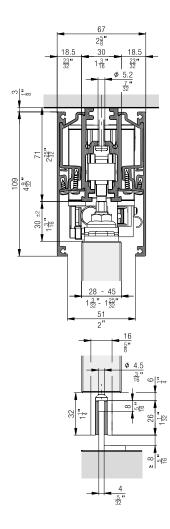


Installation examples









Set for 1 sliding shutter up to 60 kg (132 lbs.)

			No.
Hawa Frontslide 60 Matic, for 1 sliding shutter			25132
Set consisting of:		No.	
	Two-wheeled running gear, M8, plastic wheels	2	17119
	Top fixing plate, with suspension bolt M8, stainless steel	2	24562

Set Motronic 60 SMI

			No.
Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel			30520
Set consisting	of:	30520	No.
and	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
OT DI	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
A REPORT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
		cut to size	24796

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Angled profile for 1 sliding level

		mm (inch)	No.
	Angled profile for one sliding level, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	21378
		cut to size	21379
	Angled profile for one sliding level,	6000 (19' 8 7/32'')	21380
	aluminum, pre-drilled	cut to size	21381

Connecting pins for running tracks and angled profiles

		No.
MA	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles The special mounting screw must be used for optimum attachment of the running track to the angled support profile.

s
se
рі (3
 (3

	No.
Special fixing screws, for securing running track to angled profile support, 10-piece set (3 pieces per meter)	19774

Spacer profiles

	mm (inch)	No.
Spacer profile for angled profile	6000 (19' 8 7/32'')	19724
support, aluminum, anodized	cut to size	19727

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A CONTRACTOR OF THE OWNER OWNER OF THE OWNER OWNER OWNER OWNER O	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
and the second s	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
ST. Start	SMI adapter for commissioning box	30363

Accessories

		No.
	Front cover plates, ceiling mounting, aluminum, anodized, 1 pair	24573
88888888	Front cover plates, ceiling mounting, aluminum, 1 pair	24575
	Front cover plates, wall mounting without spacer profile, aluminum, anodized, 1 pair	24577
	Front cover plates, wall mounting without spacer profile, aluminum, 1 pair	24580
	Front cover plates, wall mounting with spacer profile, aluminum, anodized, 1 pair	24583
	Front cover plates, wall mounting with spacer profile, aluminum, 1 pair	24586

Technical data Hawa Motronic 60 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 100 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

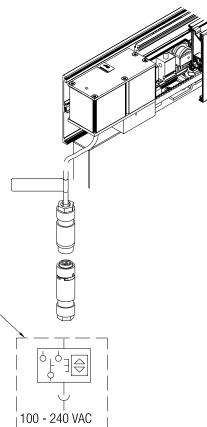
Switch elements:

Mains isolation device:

Hawa Motronic 60 $\langle \rangle$ |_ → 30298 Artikel-Nr. Hawa Kontakt www.hawa.com 20ZZ/YYYYYY Charge Key-ID 0016XXXXXX, Bj: 20ZZ Antriebskraft max. 100 N, IP54 100-240 VAC, 50/60 Hz, 30 W Geschwindigkeit max. 10 cm/s Betriebstemp. -20 °C bis +60 °C

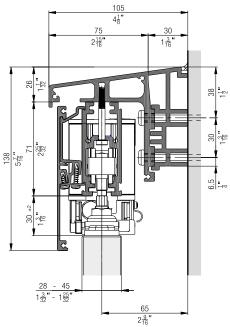
Actuation and operation of the system

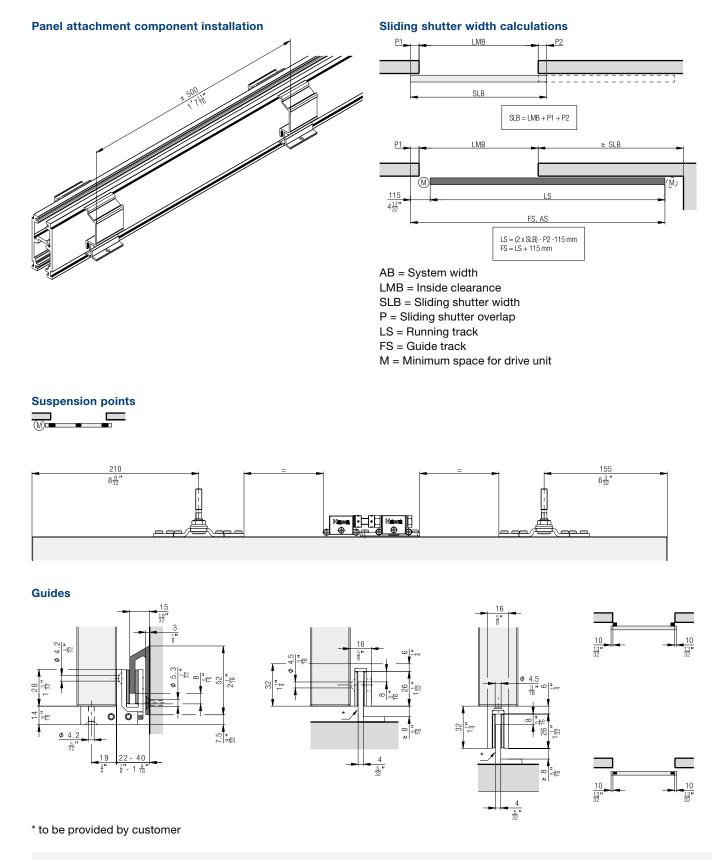
The system can be operated with normal commercial sun blind switches.



* to be provided by customer

Wall mounting with spacer profile (weatherboard)





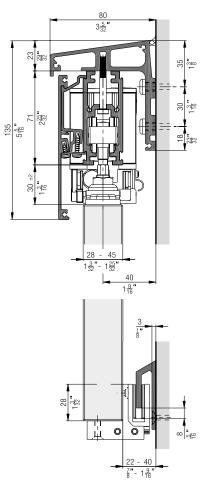
Planning/execution

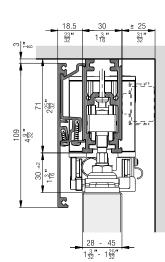
- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

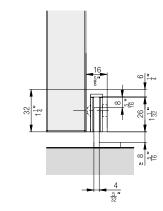
Automated fitting with SMI interface for 2 symmetrically opening wooden or metal shutters up to 60 kg (132 lbs.). With screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

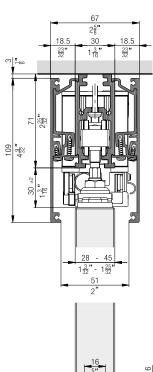
Proc	luct highlights		
Ŷ	Comfort	Automated system with building control interface Optimized individual use of daylight	
	Productivity	Increases energy efficiency in the building	Ŧ
Tech	nnical specifica	tions	
\triangle	Max.	60 kg (132 lbs.)	
${}^{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
$\leftarrow \rightarrow$		75 mm (1' 9 21/32'' to 6' 1 13/16'') Max. shutter area 6.24 m² (67 ft²))	
→[]←		28–45 mm (1 3/32'' to 1 25/32'')	_

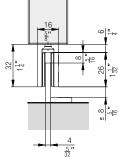
Installation examples











Set for 2 sliding shutters up to 60 kg (132 lbs.)

			No.
Hawa Frontslide for 2 sliding shu	e 60 Matic Symmetric 2, tters		25133
Set consisting	of:	25133	No.
	Two-wheeled running gear, M8, plastic wheels	4	17119
	Top fixing plate, with suspension bolt M8, stainless steel	4	24562
Cal Que	Driver for Symmetric-installations	1	19655

Set Motronic 60 SMI

			No.
	60 SMI for Hawa Frontslide ontrol unit, toothed belt lock an	d	30520
Set consisting	of:	30520	No.
610 A	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
ON DB	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
T. T. T.	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
*		cut to size	24796

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
1	pre-drilled	cut to size	24462

Angled profile for 1 sliding level

		mm (inch)	No.
	Angled profile for one sliding level,	6000 (19' 8 7/32'')	21378
	aluminum, anodized, pre-drilled	cut to size	21379
	Angled profile	6000 (19' 8 7/32'')	21380
	for one sliding level, aluminum, pre-drilled	cut to size	21381

Connecting pins for running tracks and angled profiles

		No.
MAR	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles The special mounting screw must be used for optimum attachment of the running track to the angled support profile.

Cor.

Special fixing screws, for securing running track to angled profile support, 10-piece set (3 pieces per meter)

No.

Spacer profiles

	mm (inch)	No.
Spacer profile for angled profile	6000 (19' 8 7/32'')	19724
support, aluminum, anodized	cut to size	19727

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A State of the sta	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
and the second s	Floor guide unit, long, for guide track	24544
	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
6.D	SMI adapter for commissioning box	30363

Accessories

		No.
	Front cover plates, ceiling mounting, aluminum, anodized, 1 pair	24573
*****	Front cover plates, ceiling mounting, aluminum, 1 pair	24575
	Front cover plates, wall mounting without spacer profile, aluminum, anodized, 1 pair	24577
	Front cover plates, wall mounting without spacer profile, aluminum, 1 pair	24580
	Front cover plates, wall mounting with spacer profile, aluminum, anodized, 1 pair	24583
	Front cover plates, wall mounting with spacer profile, aluminum, 1 pair	24586

Technical data Hawa Motronic 60 SMI

Drive with integrated controller, with SMI 3.0 \mbox{BF} interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 100 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

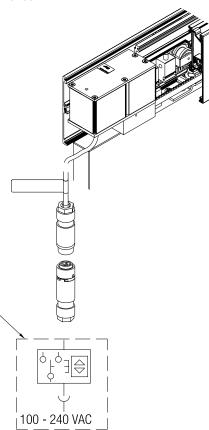
Switch elements:

Mains isolation device:

Hawa Motronic 60 \mathbf{S} |_ → 30298 Artikel-Nr. Hawa Kontakt www.hawa.com 20ZZ/YYYYYY Charge Key-ID 0016XXXXXX, Bj: 20ZZ Antriebskraft max. 100 N, IP54 100-240 VAC, 50/60 Hz, 30 W Geschwindigkeit max. 10 cm/s Betriebstemp. -20 °C bis +60 °C

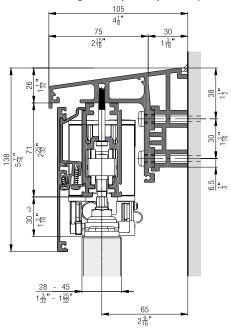
Actuation and operation of the system

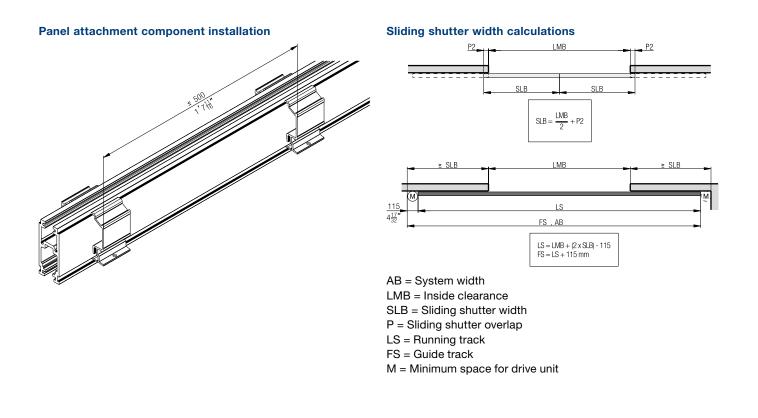
The system can be operated with normal commercial sun blind switches.



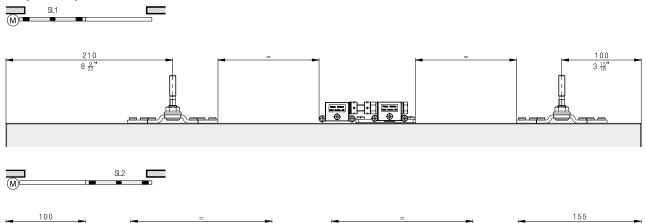
* to be provided by customer

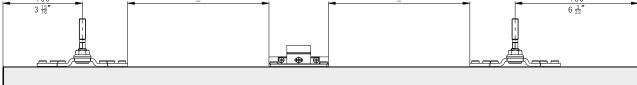
Wall mounting with spacer profile (weatherboard)

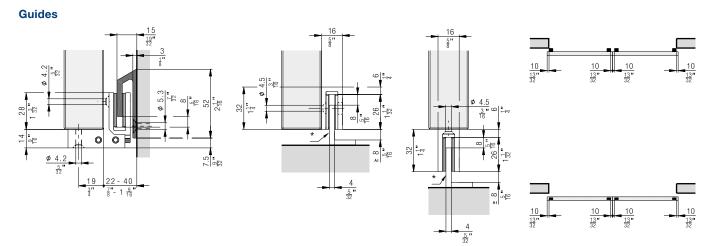




Suspension points







* to be provided by customer

Planning/execution

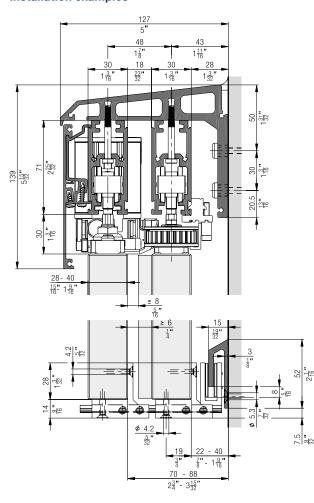
- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

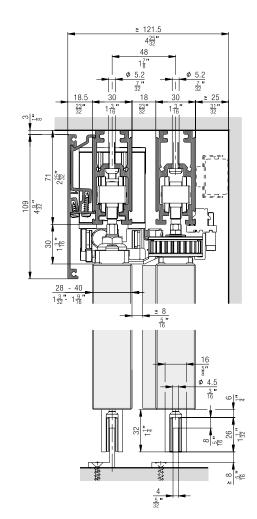
Automated fitting with SMI interface for 4 symmetrically opening wooden or metal shutters up to 40 kg (88 lbs.). With screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

Proc	duct highligh	its	
Ŷ	Comfort	Automated system with building control interface Optimized individual use of daylight	
	Productivity	y Increases energy efficiency in the building	
Tecl	hnical specif	ications	
\triangle	Max.	40 kg (88 lbs.)	
${}^{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
$\stackrel{\leftarrow}{=}$	650	–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))	
→[]←		28–40 mm (1 3/32'' to 1 9/16'')	

Installation examples

Product highlights





Set for 4 sliding shutters up to 40 kg (88 lbs.)

			No.
Hawa Frontslide 60 Matic Symmetric 2+2, for 4 sliding shutter		25134	
Set consisting	Set consisting of:		No.
	Two-wheeled running gear, M8, plastic wheels	8	17119
	Top fixing plate, with suspension bolt M8, stainless steel	8	24562
9	Guide pulley wheel, with fixing plate, long	1	20139
Ċ	Guide pulley wheel, with fixing plate, extra long	1	25314
A CONTRACTOR	Guide pulley wheel, with fixing plate, short	2	20140
	Driver counter-plate, wide	2	20246
	Driver for Symmetric-installations	1	19655
	Driver, wide	2	20141
	Clamp for toothed belt	2	24777
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	1	19667

Set Motronic 60 SMI

			No.
	Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel		30520
Set consisting	of:	30520	No.
and the	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
OD DB	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
A REAL PROPERTY OF THE PROPERT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Į

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
/////		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
*		cut to size	24796

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
·	pre-drilled	cut to size	24462

Angled profile for 2 sliding levels

		mm (inch)	No.
	Angled profile for two sliding level,	6000 (19' 8 7/32'')	21384
	aluminum, anodized, pre-drilled	cut to size	21385
	Angled profile	6000 (19' 8 7/32'')	21386
	for two sliding level, aluminum, pre-drilled	cut to size	21387

Connecting pins for running tracks and angled profiles

		No.
MA	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles

The special mounting screw must be used for optimum attachment of the running track to the angled support profile.



	No.
Special fixing screws, for securing running track to angled profile support, 10-piece set (3 pieces per meter)	19774

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

 	No.
Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
ST. Start	SMI adapter for commissioning box	30363

Accessories

	No.
Front cover plates for two sliding levels, wall fitting, aluminum, anodized, 1 pair	24821
 Front cover plates for two sliding levels, wall fitting, aluminum, 1 pair	24824

The system can be operated with normal commercial sun blind

Technical data Hawa Motronic 60 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

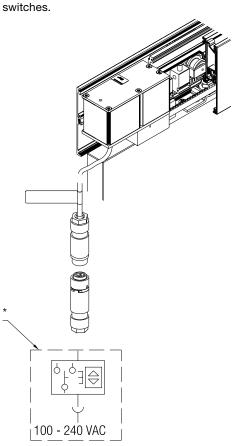
Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 100 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

Switch elements:

Mains isolation device:

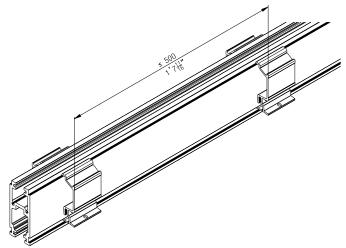
Hawa Motronic 60 $\langle \rangle$ 30298 Artikel-Nr. Hawa Kontakt www.hawa.com 20ZZ/YYYYYY Charge Key-ID 0016XXXXXX, Bj: 20ZZ Antriebskraft max. 100 N, IP54 100-240 VAC, 50/60 Hz, 30 W Geschwindigkeit max. 10 cm/s Betriebstemp. -20 °C bis +60 °C



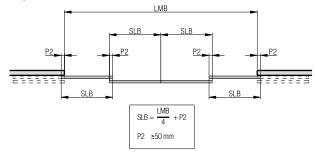
Actuation and operation of the system

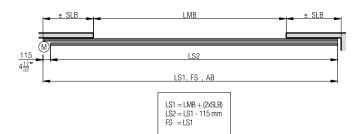
* to be provided by customer

Panel attachment component installation



Sliding shutter width calculations

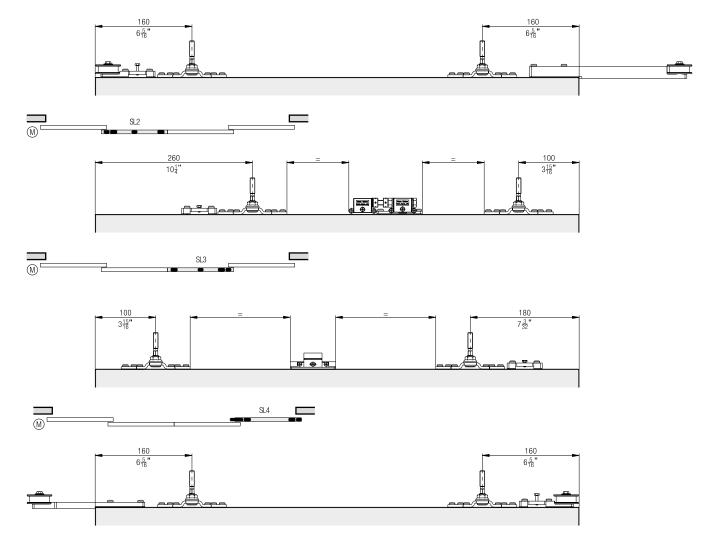




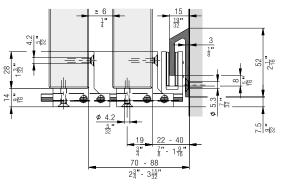
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

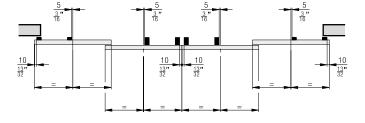
Suspension points

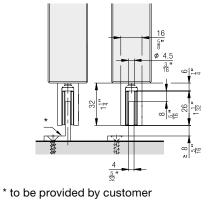


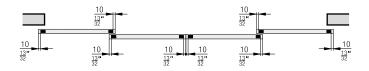


Guides









Planning/execution

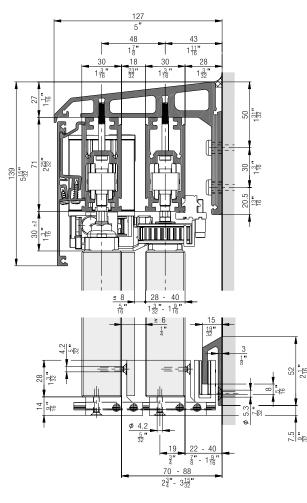
- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

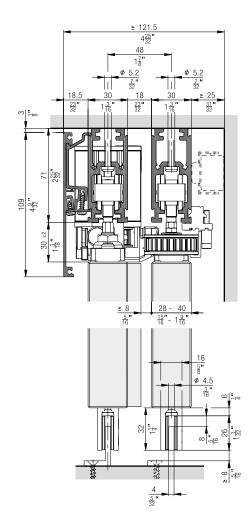
Automated fitting with SMI interface for 2 wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

Ŷ	Comfort	Automated system with building control interface Optimized individual use of daylight	
٢	Aestheti	cs Convertible, living façade with interesting design features	
Tech	inical spe	ecifications	
\triangle	Max.	60 kg (132 lbs.)	
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
$\leftarrow \rightarrow$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'')	
		(Max. shutter area 3.84 m ² (41 ft ²))	
$\rightarrow [] \leftarrow$		28–40 mm (1 3/32'' to 1 9/16'')	

Installation examples

Product highlights





Set for 2 sliding shutters up to 60 kg (132 lbs.)

			No.
	Hawa Frontslide 60 Matic Telescopic, for 2 sliding shutters		
Set consisting	of:	25135	No.
	Two-wheeled running gear, M8, plastic wheels	4	17119
	Top fixing plate, with suspension bolt M8, stainless steel	4	24562
	Clamp for toothed belt	1	24777
<u>O</u>	Guide pulley wheel, with fixing plate, long	1	20139
and the second s	Guide pulley wheel, with fixing plate, short	1	20140
	Driver, wide	1	20141
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208

Set Motronic 60 SMI

			No.
	Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel		
Set consisting	of:	30520	No.
and	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TE TE	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Toothed belt length calculation: 2 x system width

	No.
Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
~ <i>¥</i> /	p. c aca	cut to size	24796

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
·	pre-drilled	cut to size	24462

Angled profile for 2 sliding levels

		mm (inch)	No.
	Angled profile for two sliding level, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	21384
		cut to size	21385
	Angled profile	6000 (19' 8 7/32'')	21386
	for two sliding level, aluminum, pre-drilled	cut to size	21387

Connecting pins for running tracks and angled profiles

		No.
MA	Connecting bolts, 6-piece set	17221

Mounting screws for angled profiles

The special mounting screw must be used for optimum attachment of the running track to the angled support profile.



	No.
Special fixing screws, for securing running track to angled profile support, 10-piece set (3 pieces per meter)	19774

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
1		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A State of the sta	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
ST. Start	SMI adapter for commissioning box	30363

Accessories

	No.
Front cover plates for two sliding levels, wall fitting, aluminum, anodized, 1 pair	24821
 Front cover plates for two sliding levels, wall fitting, aluminum, 1 pair	24824

Technical data Hawa Motronic 60 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 100 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

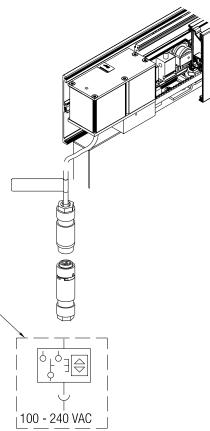
Switch elements:

Mains isolation device:

Hawa N	Notronic 60	\$ ~~	_ →
Artikel-Nr. Kontakt Charge	30298 www.hawa.com 20ZZ/YYYYYY	Н	awa
100–240 VA Geschwindig	0016XXXXXX, Bj: 20 t max. 100 N, IP54 C, 50/60 Hz, 30 W gkeit max. 10 cm/s p20 °C bis +60 °C		€ ⊮→

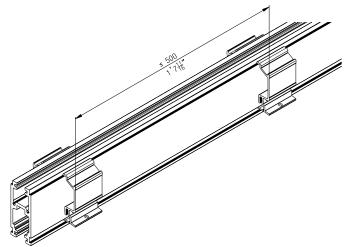
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

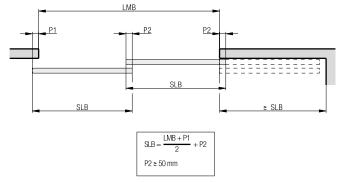


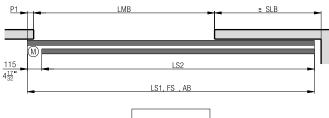
* to be provided by customer

Panel attachment component installation



Sliding shutter width calculations

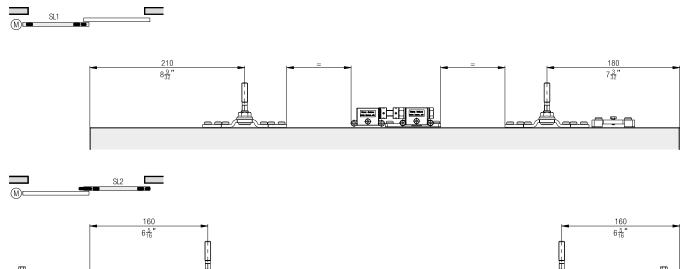




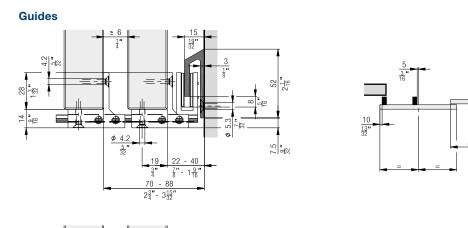


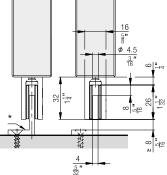
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

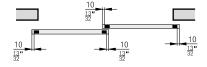
Suspension points



10







* to be provided by customer

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Automated fitting with SMI interface for 3 wooden or metal shutters up to 50 kg (110 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

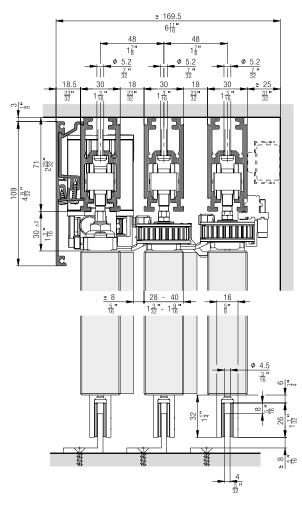
🖓 Comfort	Automated system with building control interface
	Optimized individual use of daylight

Aesthetics Convertible, living façade with interesting design features

Technical specifications

\triangle	Max.	50 kg (110 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')

Installation examples



Set for 3 sliding shutters up to 50 kg (110 lbs.)

			No.
	Hawa Frontslide 60 Matic Telescopic 3, for 3 sliding shutters		
Set consisting of:		25136	No.
	Two-wheeled running gear, M8, plastic wheels	6	17119
000 M	Top fixing plate, with suspension bolt M8, stainless steel	6	24562
	Clamp for toothed belt	1	24777
<u>.</u>	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
8	Driver, narrow	1	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	2	20208

Set Motronic 60 SMI

			No.
	Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel		30520
Set consisting	of:	30520	No.
and	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TT TT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16"), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

Į

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
~ <i>W</i>	p. c aca	cut to size	24796

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
1	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A State of the sta	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
E.D.	SMI adapter for commissioning box	30363

The system can be operated with normal commercial sun blind

Technical data Hawa Motronic 60 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 100 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

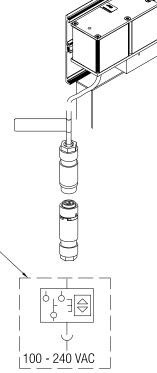
Switch elements:

Mains isolation device:

Hawa Motronic 60 $\langle \rangle$ 30298 Artikel-Nr. Hawa Kontakt www.hawa.com 20ZZ/YYYYYY Charge Key-ID 0016XXXXXX, Bj: 20ZZ Antriebskraft max. 100 N, IP54 100-240 VAC, 50/60 Hz, 30 W Geschwindigkeit max. 10 cm/s Betriebstemp. -20 °C bis +60 °C

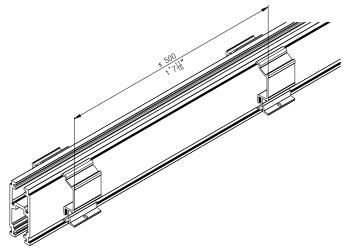
switches.

Actuation and operation of the system

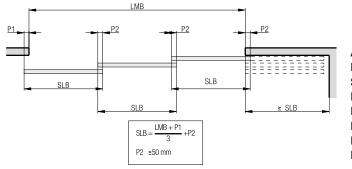


* to be provided by customer

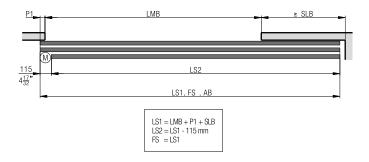
Panel attachment component installation



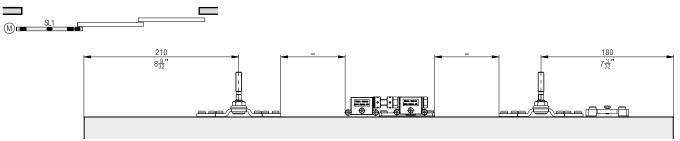
Sliding shutter width calculations



AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

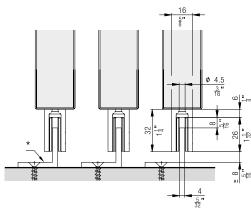


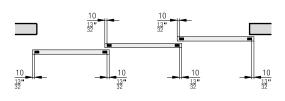
Suspension points





Guides





* to be provided by customer

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Automated fitting with SMI interface for 4 wooden or metal shutters up to 40 kg (88 lbs), with screwed on running track. Ceiling or architrave mounting.

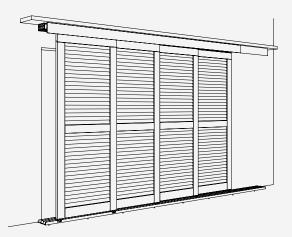
Product highlights

🕁 Comfort	Automated system with building control interface
	Optimized individual use of daylight

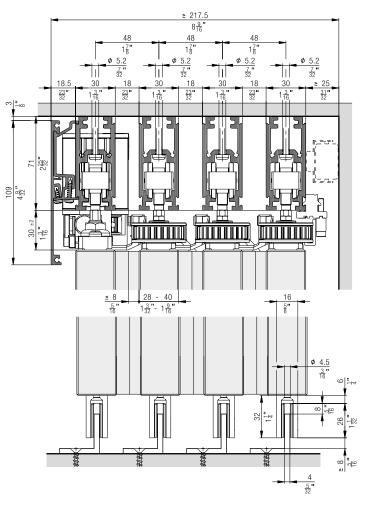
Aesthetics Convertible, living façade with interesting design features

Technical specifications

\triangle	Max.	40 kg (88 lbs.)
$\stackrel{\uparrow}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



Set for 4 sliding shutters up to 40 kg (88 lbs.)

			No.
Hawa Frontslide 60 Matic Telescopic 4, for 4 sliding shutters			25137
Set consisting	of:	25137	No.
<u>·</u> ··	Two-wheeled running gear, M8, plastic wheels	8	17119
	Top fixing plate, with suspension bolt M8, stainless steel	8	24562
	Clamp for toothed belt	1	24777
<u>ی</u>	Guide pulley wheel, with fixing plate, long	3	20139
	Guide pulley wheel, with fixing plate, short	3	20140
	Driver, wide	З	20141
	Driver, narrow	2	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	3	20208

Set Motronic 60 SMI

			No.
aa	Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel		30520
Set consisting of:		30520	No.
and the	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TT TT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16"), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

Ì

		mm (inch)	No.
		3500 (11' 5 25/32'')	24839
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24795
~ <i>W</i>	p. c aca	cut to size	24796

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

	mm (inch)	No.
Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
•	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A CONTRACTOR	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
5.77 Start	SMI adapter for commissioning box	30363

Г

The system can be operated with normal commercial sun blind

Technical data Hawa Motronic 60 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

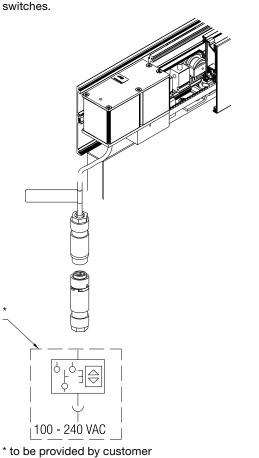
Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 100 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

Switch elements:

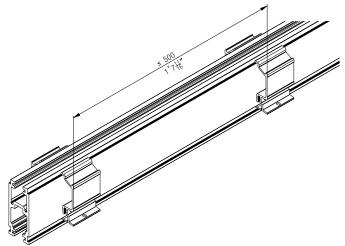
Mains isolation device:

Hawa Motronic 60 $\langle \rangle$ 30298 Artikel-Nr. Hawa Kontakt www.hawa.com 20ZZ/YYYYYY Charge Key-ID 0016XXXXXX, Bj: 20ZZ Antriebskraft max. 100 N, IP54 100-240 VAC, 50/60 Hz, 30 W Geschwindigkeit max. 10 cm/s Betriebstemp. -20 °C bis +60 °C

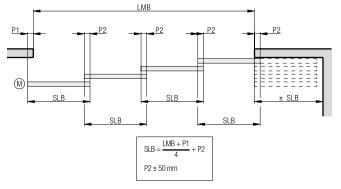


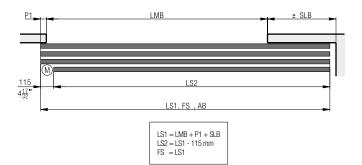
Actuation and operation of the system

Panel attachment component installation

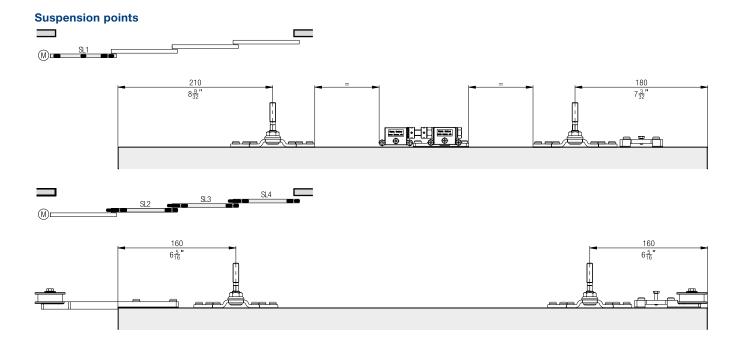




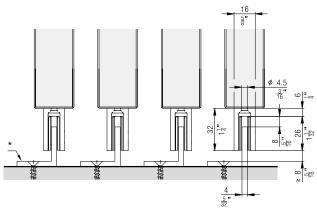


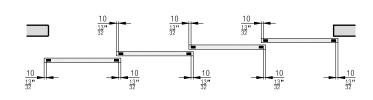


AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit



Guides





* to be provided by customer

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Fitting for top-running wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.

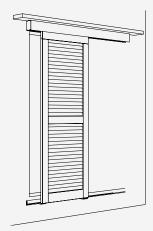
Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
9	Security	The shutters withstand even stormy winds

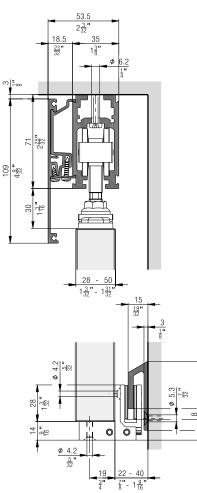
Security The shutters withstand even stormy winds, both open and closed

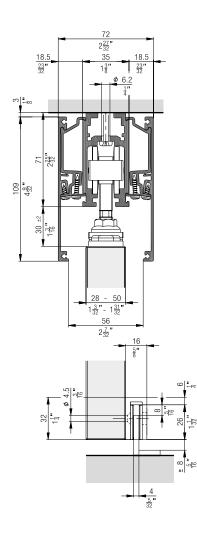
Technical specifications

\triangle	Max.	100 kg (220 lbs.)		
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')		
$\leftarrow \rightarrow$		500–3750 mm (1' 7 11/16'' to 12' 3 5/8'') (Max. shutter area 9.6 m² (103 ft²))		
→∏←		28–50 mm (1 3/32'' to 1 31/32'')		



Installation examples





52 1년**"**

7.5

Set for 1 sliding shutter up to 100 kg (220 lbs.)

			No.
Hawa Frontslide	e 100 A, for 1 sliding shutter		25123
Set consisting of:		No.	
	Two-wheeled running gear, M10, plastic wheels	2	24552
	Top fixing plate, stainless steel, with hanger bolt M10	2	24564
	Track stop with adjustable retainer	2	24834

Running tracks

_		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*//		cut to size	24798

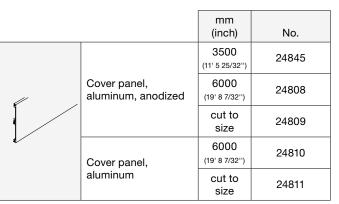
Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

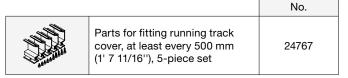
Guide tracks

	mm (inch)	No.
Guide track,	6000 (19' 8 7/32'')	24460
aluminum, anodized, pre-drilled	cut to size	24462

Panels



Panel attachment components



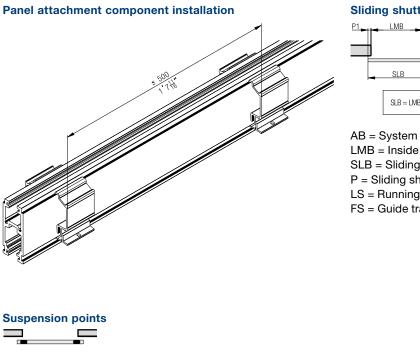
Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

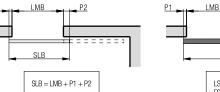
Accessories

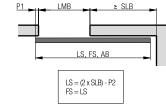
		No.
	Front cover plate, aluminum, anodized, for ceiling fitting, 1 pair	24813
AND	Front cover plate for ceiling fitting, aluminum, 1 pair	24815





Sliding shutter width calculation

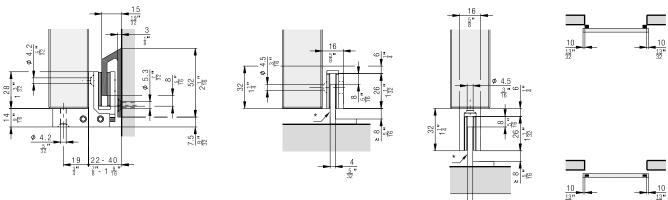




AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track



Guides



* to be provided by customer

Accessories

- Sliding shutter bolts from page 192

Planning/execution

 Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)

 $\frac{4}{\frac{5}{32}}$

- Wind resistance class overview from page 198

Fitting for 2 symmetrically opening wooden or metal shutters up to 100 kg (220 lbs.). With screwed on running track. Ceiling or architrave mounting.

73.5

2祭

1곱

28 - 45

 $1\frac{3}{32}$

- 1²⁵ 32

> <u>م</u>ات الا

Product highlights

<

 \uparrow

 $\leftarrow \rightarrow$

→[]←

0	Aesthetics	Attractive design solution for exciting and modern façade design
0	Security	The shutters withstand even stormy winds

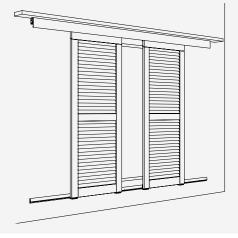
550-1500 mm (1' 9 21/32" to 4' 11 1/16")

(Max. shutter area 3.84 m² (41 ft²)) 28–50 mm (1 3/32'' to 1 31/32'')

Security The shutters withstand even stormy winds, both open and closed

100 kg (220 lbs.)

3200 mm (10' 5 31/32'')

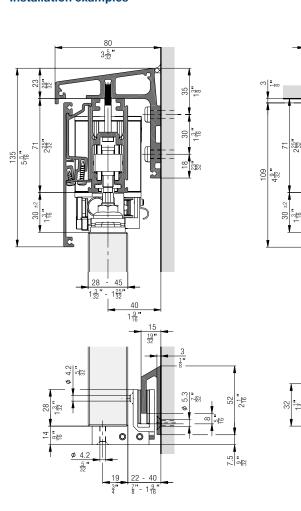


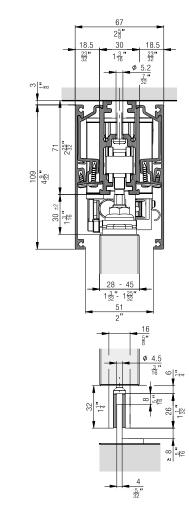
Installation examples

Technical specifications

Max.

Max.





Set for 2 sliding shutters up to 100 kg (220 lbs.)

			No.
	Hawa Frontslide 100 A Symmetric 2, for 2 sliding shutters		
Set consisting of:			No.
	Two-wheeled running gear, M10, plastic wheels	4	24552
C.S.A.S.	Top fixing plate, stainless steel, with hanger bolt M10	4	24564
CO CO	Track stop with adjustable retainer	1	24834
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
	Driver, laterally adjustable for manual systems	1	20353
	Toothed belt lock for manual systems	1	20352

Toothed belt

Toothed belt length calculation: 2 x system width

	No.
Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Г

. .

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*		cut to size	24798

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

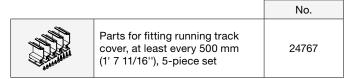
Guide tracks

		mm (inch)	No.
	Guide track,	6000 (19' 8 7/32'')	24460
Í.	aluminum, anodized, pre-drilled	cut to size	24462

Panels

	mm (inch)	No.
Cover panel, aluminum, anodized Cover panel, aluminum	3500 (11' 5 25/32'')	24845
	6000 (19' 8 7/32'')	24808
	cut to size	24809
	6000 (19' 8 7/32'')	24810
	cut to size	24811

Panel attachment components



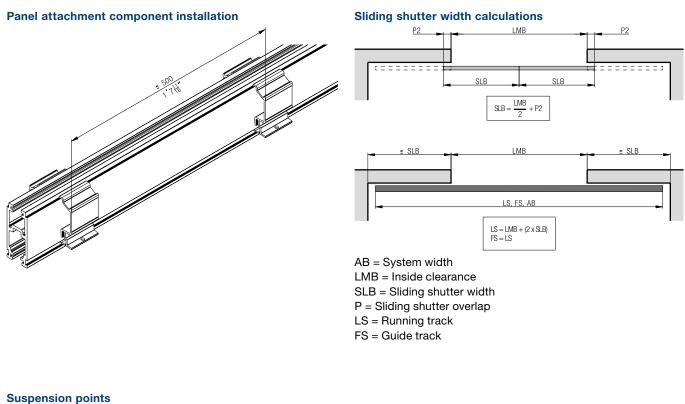
П

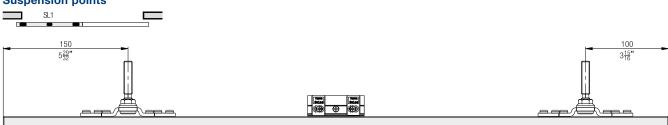
Guides

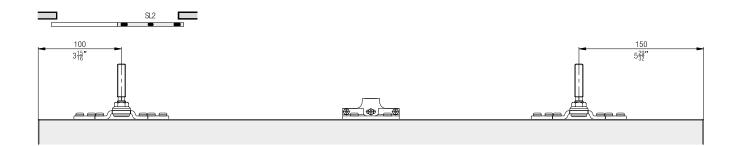
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

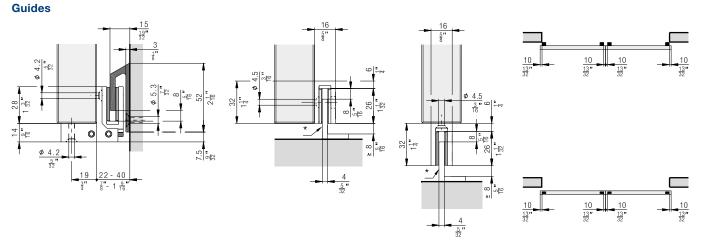
Accessories

		No.
5	Front cover plate, aluminum, anodized, for ceiling fitting, 1 pair	24813
and the second s	Front cover plate for ceiling fitting, aluminum, 1 pair	24815









* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Fitting for 4 symmetrically opening wooden or metal shutters up to 70 kg (154 lbs.). With screwed on running track. Ceiling or architrave mounting.

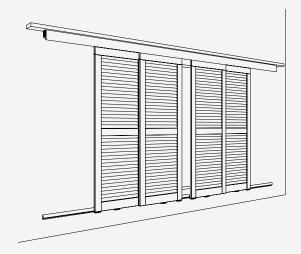
Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
0	Security	The shutters withstand even stormy winds.

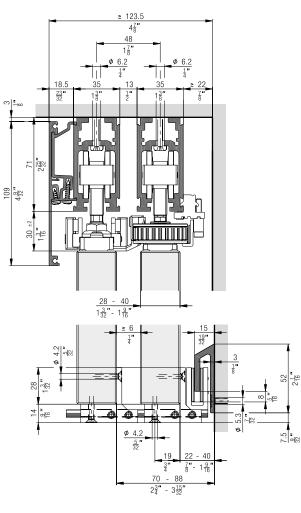
both open and closed

Technical specifications

\triangle	Max.	70 kg (154 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{\longrightarrow}$		600–1000 mm (1' 11 5/8'' to 3' 3 3/8'') (Max. shutter area 3.2 m² (34 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



216'

Set for 4 sliding shutters up to 70 kg (154 lbs.)

			No.
Hawa Frontslide 100 A Symmetric 2+2, for 4 sliding shutters			25126
Set consisting	Set consisting of:		No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
O CON	Track stop with adjustable retainer	3	24834
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
O	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver counter-plate, wide	2	20246
E	Driver, wide	2	20141
	Driver, laterally adjustable for manual systems	1	20353
	Toothed belt lock for manual systems	1	20352
	Toothed belt clamp	2	25059
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	2	20208

Toothed belt Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16"), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*1		cut to size	24798

Connecting pins for running tracks

		No.	
MAG	Connecting bolts, 6-piece set	17221	

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

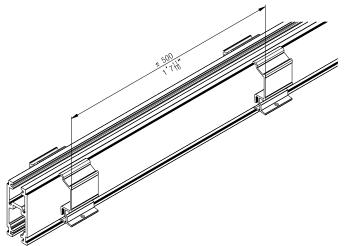
Panel attachment components

_		No.
A Constant	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

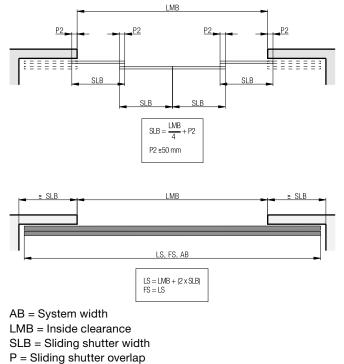
		No.
and and a second	Floor guide unit, short, for guide track	24543
and the second sec	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

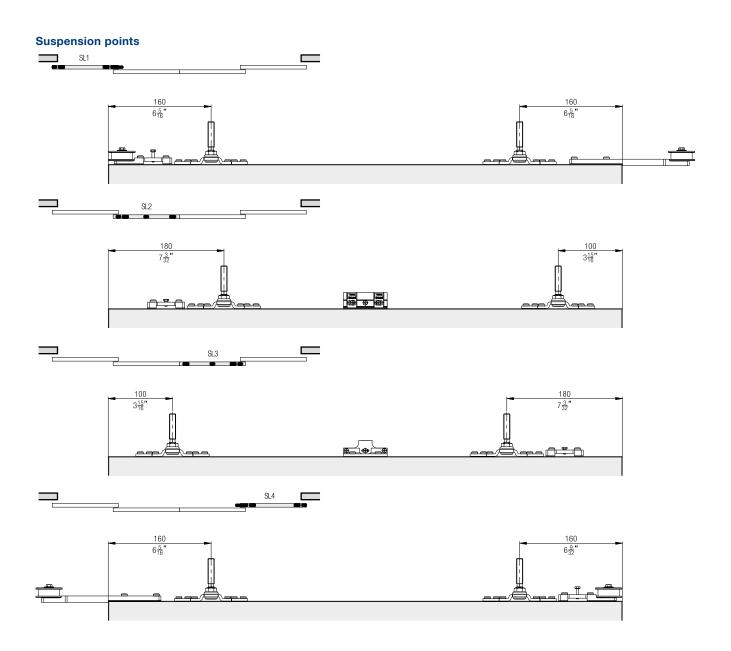
Panel attachment component installation



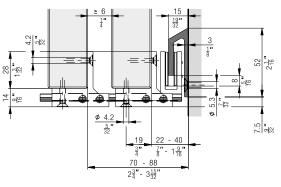
Sliding shutter width calculations

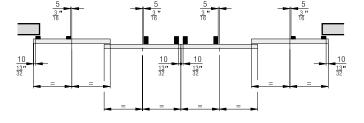
LS = Running track FS = Guide track

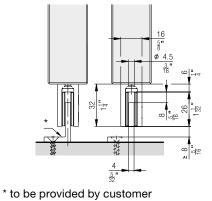




Guides







Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

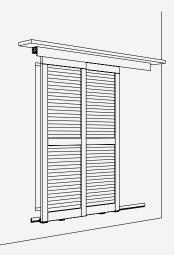
Fitting for 2 wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

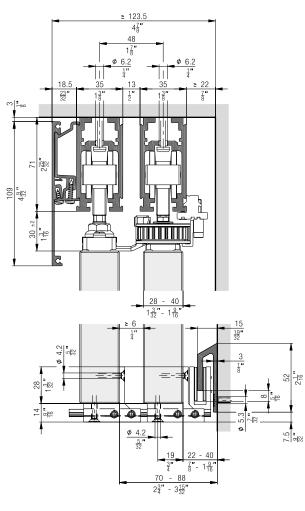
٢	Aesthetics	Attractive design solution for exciting and modern façade design
9	Security	The shutters withstand even stormy winds, both open and closed

Technical specifications

\triangle	Max.	100 kg (220 lbs.)
$\stackrel{\uparrow}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{\longrightarrow}$		600–1200 mm (1' 11 5/8'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→∏←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



Set for 2 sliding shutters up to 100 kg (220 lbs.)

			No.
Hawa Frontslide 100 A Telescopic, for 2 sliding shutters			25127
Set consisting	Set consisting of:		No.
	Two-wheeled running gear, M10, plastic wheels	4	24552
0 9 M	Top fixing plate, stainless steel, with hanger bolt M10	4	24564
CO CO	Track stop with adjustable retainer	2	24834
	Toothed belt clamp	1	25059
	Guide pulley wheel, with fixing plate, long	1	20139
and the second s	Guide pulley wheel, with fixing plate, short	1	20140
	Driver, wide	1	20141
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
- 1 / /	P	cut to size	24798

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Ĩ,	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size 24809	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

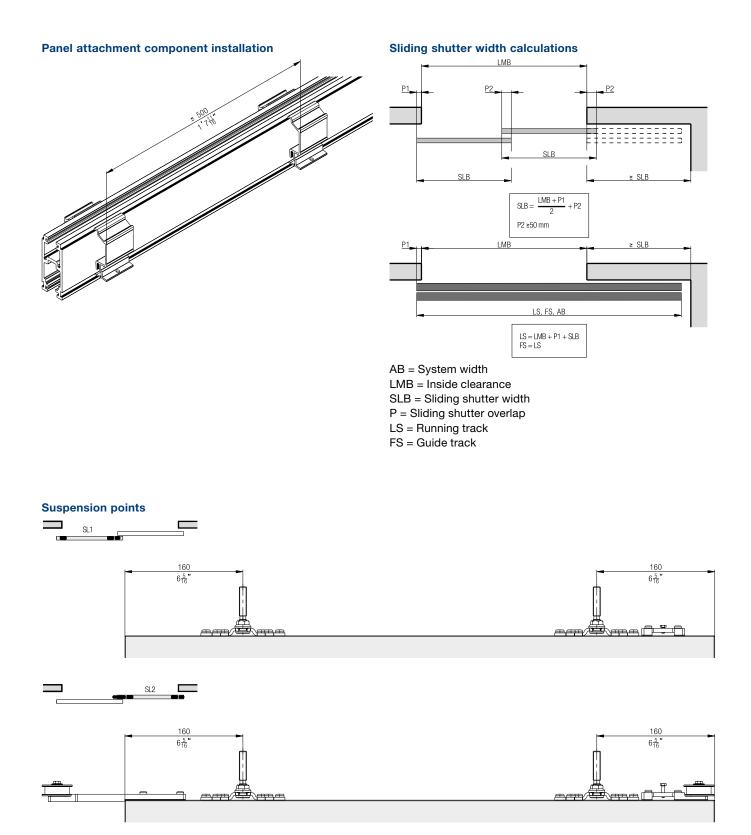
Panel attachment components

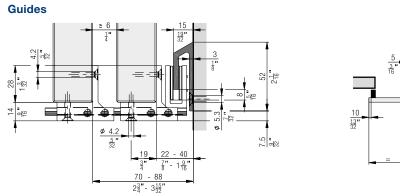
		No.
A CONTRACTOR OF THE OWNER	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

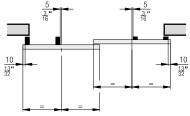
Г

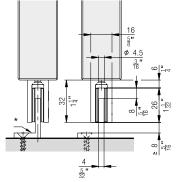
Guides

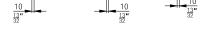
		No.
le le	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542











 $\frac{13}{32}$

* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Fitting for 3 wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.

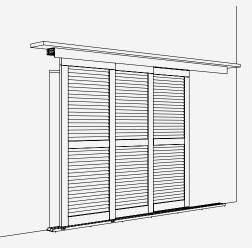
Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
9	Socurity	The chuttere withstand over stormy winds

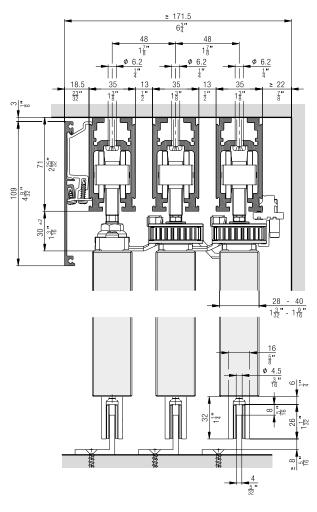
Security The shutters withstand even stormy winds, both open and closed

Technical specifications

\triangle	Max.	100 kg (220 lbs.)	
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')	
$\leftarrow \rightarrow$		600–1200 mm (1' 11 5/8'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))	
→∏←		28–40 mm (1 3/32'' to 1 9/16'')	



Installation examples



Set for 3 sliding shutters up to 100 kg (220 lbs.)

			No.
Hawa Frontslide 100 A Telescopic 3, for 3 sliding shutters			25128
Set consisting	Set consisting of:		
	Two-wheeled running gear, M10, plastic wheels	6	24552
	Top fixing plate, stainless steel, with hanger bolt M10	6	24564
C C C C C C C C C C C C C C C C C C C	Track stop with adjustable retainer	2	24834
	Toothed belt clamp	1	25059
۲. enter and the second secon	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
3	Driver, narrow	1	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	2	20208

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*/		cut to size	24798

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized Cover panel, aluminum	3500 (11' 5 25/32'')	24845
/		6000 (19' 8 7/32'')	24808
		cut to size	24809
•		6000 (19' 8 7/32'')	24810
		cut to size	24811

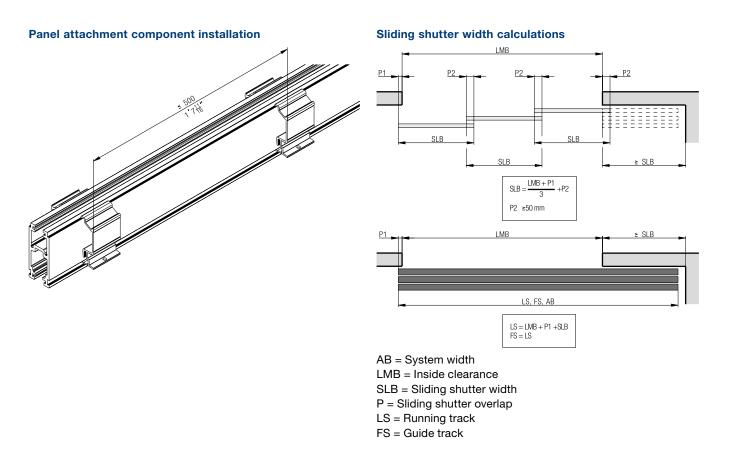
Panel attachment components

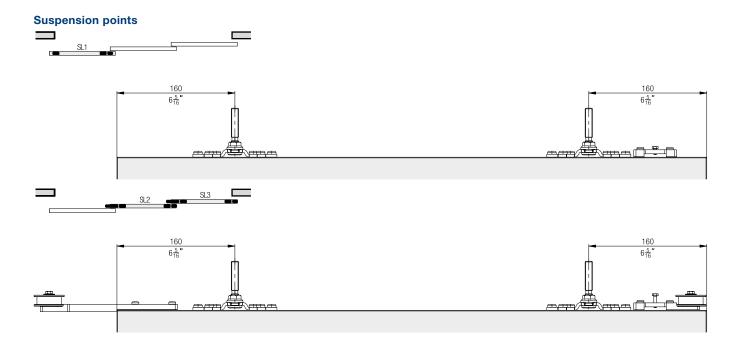
		No.	
and the second sec	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767	

Guides

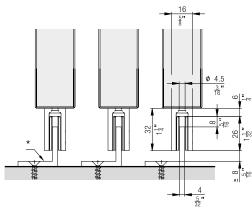
		No.
000	Guide slider, for screw fixing	24542

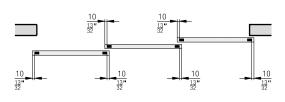
Г





Guides





* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Fitting for 4 wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

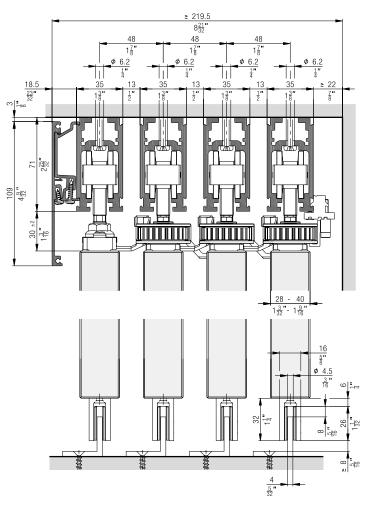
Aesthetics		Attractive design solution for exciting and modern façade design
0	Security	The shutters withstand even stormy winds

Security The shutters withstand even stormy winds, both open and closed

Technical specifications

\triangle	Max.	100 kg (220 lbs.)		
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')		
$\stackrel{\leftarrow}{=}$		600–1200 mm (1' 11 5/8'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))		
→∏←		28–40 mm (1 3/32'' to 1 9/16'')		

Installation examples



Set for 4 sliding shutters up to 100 kg (220 lbs.)

			No.
Hawa Frontslide for 4 sliding shu	Hawa Frontslide 100 A Telescopic 4, for 4 sliding shutters		25129
Set consisting	Set consisting of:		
	Two-wheeled running gear, M10, plastic wheels	8	24552
	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
CON CON	Track stop with adjustable retainer	2	24834
	Toothed belt clamp	1	25059
۲. enter and the second secon	Guide pulley wheel, with fixing plate, long	3	20139
	Guide pulley wheel, with fixing plate, short	3	20140
	Driver, wide	3	20141
	Driver, narrow	2	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	3	20208

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*	p. c aca	cut to size	24798

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel, aluminum	6000 (19' 8 7/32'')	24810
		cut to size	24811

Panel attachment components

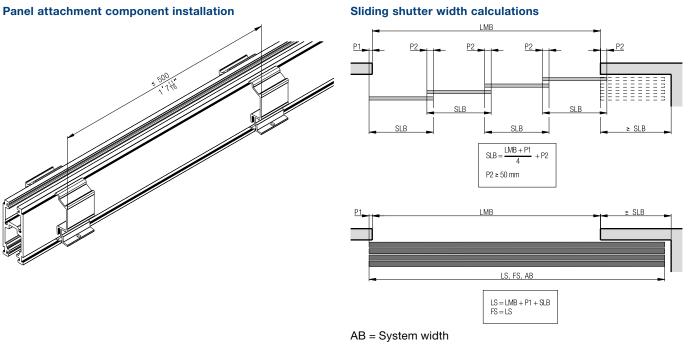
		No.	
A STATE OF STATE	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767	

Г

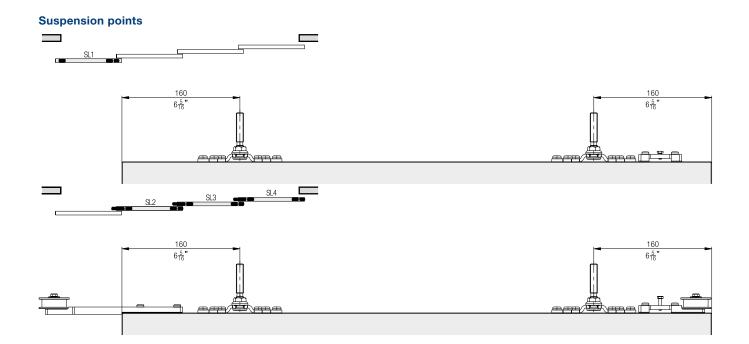
Г

Guides

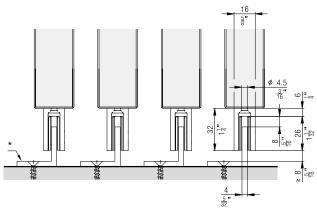
		No.
000	Guide slider, for screw fixing	24542

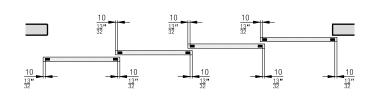


AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track



Guides





* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

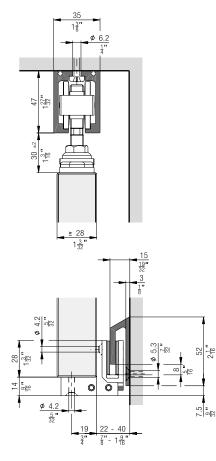
Planning/execution

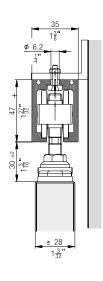
- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

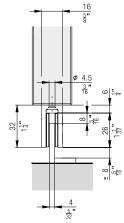
Fitting for top-running wooden or metal shutters up to 100 kg (220 lbs.), with low running track. Ceiling or architrave mounting.

Prod	luct highlig	ghts
٢	Aesthetics	s Minimal rail height
٢	Aesthetics	s Attractive design solution for exciting and modern façade design
Tech	inical spec	ifications
Tech	inical spec	
\triangle	Max.	100 kg (220 lbs.)
${\uparrow \brack}$	Max.	3200 mm (10' 5 31/32'')
\leftrightarrow	50	00–3750 mm (1' 7 11/16'' to 12' 3 5/8'') (Max. shutter area 9.6 m² (103 ft²))
$\rightarrow [] \leftarrow$		≥28 mm (1 3/32'')

Installation examples







Set for 1 sliding shutter up to 100 kg (220 lbs.)

			No.
Hawa Frontslide lower top track	100 A, for 1 sliding shutter for		25124
Set consisting	of:	25124	No.
	Two-wheeled running gear, M10, plastic wheels	2	24552
	Top fixing plate, with suspension bolt M10 for lower running track, stainless steel	2	25051
	Track stop with adjustable retainer	2	24834

Running tracks

		mm (inch)	No.
	Lower running track, aluminum, anodized,	2500 (8' 2 7/16'')	24843
	pre-drilled	6000 (19' 8 7/32'')	24804
	Lower running track to measure, alumi- num, anodized, pre-drilled	cut to size	24805

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

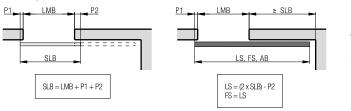
Guide tracks

		mm (inch)	No.
	Guide track,	6000 (19' 8 7/32'')	24460
1	aluminum, anodized, pre-drilled	cut to size	24462

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Sliding shutter width calculation

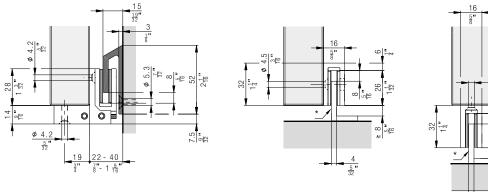


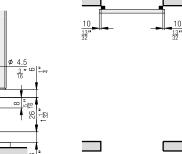
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track

Suspension points



Guides





* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

 Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)

 $\frac{4}{\frac{5}{32}}$

- Wind resistance class overview from page 198

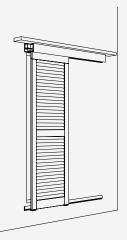
Automated fitting with SMI interface for wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

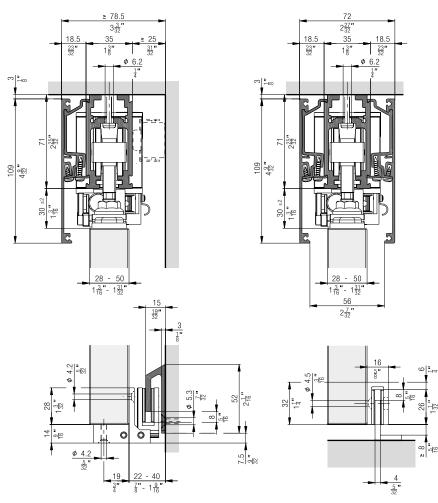
	Comfort	Automated system with building control interface Optimized individual use of daylight
9	Security	Extremely robust sliding shutter that has been tested for 100,000 cycles
		High resistance to wind and corrosion

Technical specifications

\triangle	Max.	100 kg (220 lbs.)
${\scriptstyle \uparrow \\ \downarrow} []$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		650–3750 mm (2' 1 19/32'' to 12' 3 5/8'') (Max. shutter area 6.24 m² (67 ft²))
→∏←		28–50 mm (1 3/32'' to 1 31/32'')



Installation examples



Set for 1 sliding shutter up to 100 kg

			No.
Hawa Frontslide 100 Matic, for 1 sliding shutter			25138
Set consisting of:		25138	No.
	Two-wheeled running gear, M10, plastic wheels	2	24552
	Top fixing plate, stainless steel, with hanger bolt M10	2	24564

Set Motronic 100 SMI

			No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel			30521
Set consisting of:		30521	No.
and the	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
ON DB	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TT. TT.	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

Ζ

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*₩		cut to size	24798

Connecting pins for running tracks

		No.
MAN	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

	No.
Parts for fitting running track cover, at least every 500 mm 1' 7 11/16''), 5-piece set	24767

Guides

		No.
and the second s	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
6.Dr Bard	SMI adapter for commissioning box	30363

Accessories

		No.
	Front cover plate, aluminum, anodized, for ceiling fitting, 1 pair	24813
	Front cover plate for ceiling fitting, aluminum, 1 pair	24815

Technical data Hawa Motronic 100 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 70 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

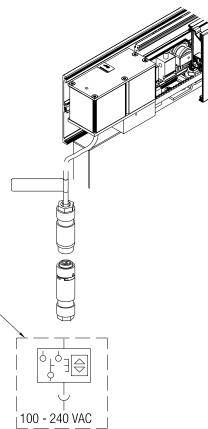
Switch elements:

Mains isolation device:

Hawa I	Motronic 100 🗲	▲ - →
Artikel-Nr. Kontakt Charge	30317 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 VA Geschwindi	0016XXXXXX, Bj: 20ZZ ft max. 100 N, IP54 xC, 50/60 Hz, 30 W gkeit max. 7 cm/s pp20 °C bis +60 °C	€€ <u>Â</u>

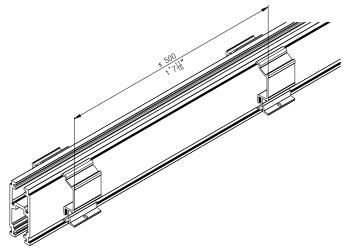
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

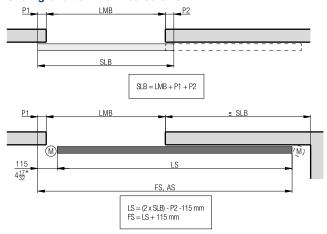


* to be provided by customer

Panel attachment component installation



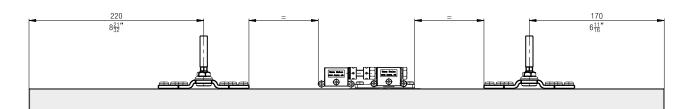
Sliding shutter width calculation



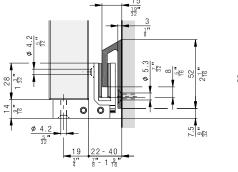
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track M = Minimum space for drive unit

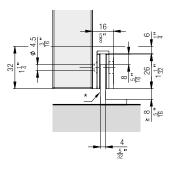
Suspension points

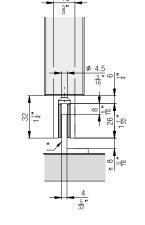


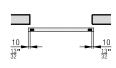


Guides









* to be provided by customer

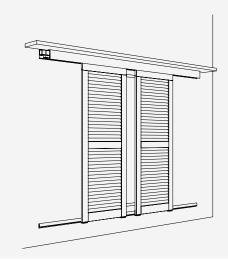
Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Automated fitting with SMI interface for 2 symmetrically opening wooden or metal shutters up to 80 kg (176 lbs.). With screwed on running track. Ceiling or architrave mounting.

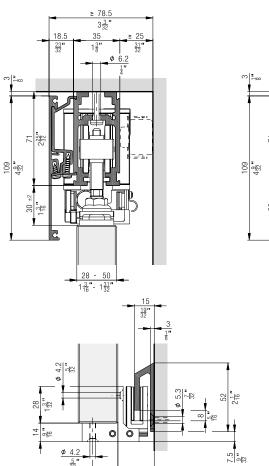
Proc	duct highlights	
Ŷ	Comfort	Automated system with building control interface Optimized individual use of daylight
	Productivity	Increases energy efficiency in the building



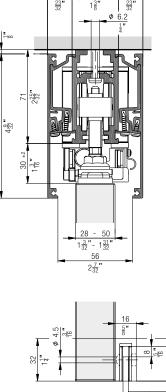
Technical specifications

\triangle	Max.	80 kg (176 lbs.)
${}^{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		600–1875 mm (1' 11 5/8'' to 6' 1 13/16'') (Max. shutter area 6.24 m² (67 ft²))
→[]←		28–50 mm (1 3/32'' to 1 31/32'')

Installation examples



2 - 40 - 19



72 2<u>27</u> 32

35

18.5

an<mark>a</mark>ma an

Set for 2 sliding shutters up to 80 kg (176 lbs.)

			No.
Hawa Frontslide 100 Matic Symmetric 2, for 2 sliding shutters			25139
Set consisting of:		25139	No.
	Two-wheeled running gear, M10, plastic wheels	4	24552
	Top fixing plate, stainless steel, with hanger bolt M10	4	24564
	Driver for Symmetric-installations	1	19655

Set Motronic 100 SMI

	No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel	30521

Set consisting of:		30521	No.
and the	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug		30317
OT DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
A REPORT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*	p. 0 000	cut to size	24798

Г

٦

Connecting pins for running tracks

		No.
MAN	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A Constant	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
and the second s	Floor guide unit, long, for guide track	24544
	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
6.D Brid	SMI adapter for commissioning box	30363

Accessories

		No.
	Front cover plate, aluminum, anodized, for ceiling fitting, 1 pair	24813
	Front cover plate for ceiling fitting, aluminum, 1 pair	24815

Technical data Hawa Motronic 100 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 70 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

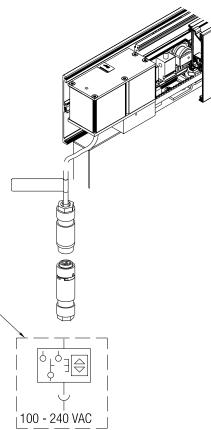
Switch elements:

Mains isolation device:

Hawa Motro	onic 100	≶₩ - →
	awa.com ′YYYYY	Hawa
Key-ID 0016X Antriebskraft max. 1 100-240 VAC, 50/60 Geschwindigkeit ma Betriebstemp20 °C	Hz, 30 W x. 7 cm/s	^z C€ً <u>⊥</u>

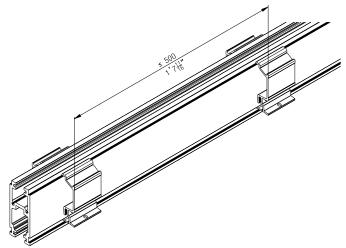
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

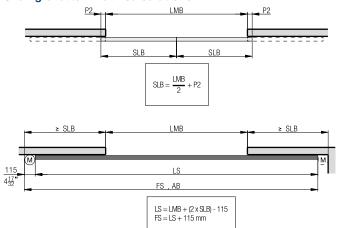


* to be provided by customer

Panel attachment component installation



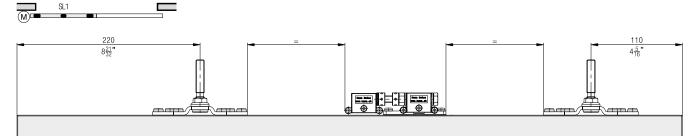
Sliding shutter width calculations

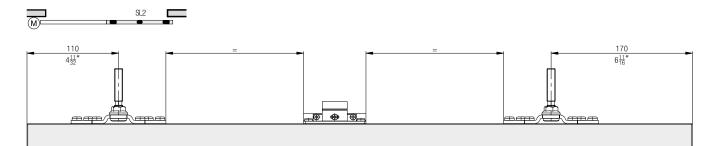


AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track

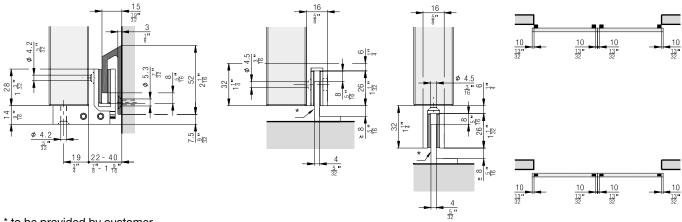
M = Minimum space for drive unit







Guides



* to be provided by customer

Planning/execution

Corrosion resistance class 4 in accordance with EN 1670
 Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Automated fitting with SMI interface for 4 symmetrically opening wooden or metal shutters up to 70 kg (154 lbs.). With screwed on running track. Ceiling or architrave mounting.

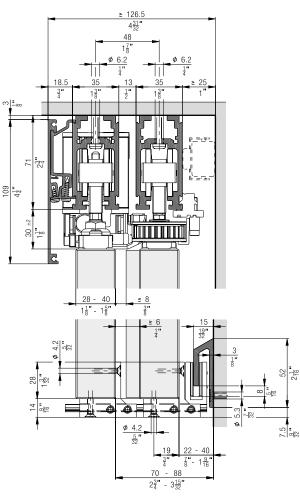
Product highlights

Comfort	Automated system with building control interface Optimized individual use of daylight
Productivity	Increases energy efficiency in the building

Technical specifications

\triangle	Max.	70 kg (154 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')

Installation examples



Set for 4 sliding shutters up to 70 kg (154 lbs.)

			No.
Hawa Frontslide 100 Matic Symmetric 2+2, for 4 sliding shutters		25140	
Set consisting	Set consisting of:		No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
C.S.M.S.	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
O	Guide pulley wheel, with fixing plate, long	1	20139
<u>o</u>	Guide pulley wheel, with fixing plate, extra long	1	25314
A CONTRACTOR	Guide pulley wheel, with fixing plate, short	2	20140
	Driver counter-plate, wide	2	20246
	Driver for Symmetric-installations	1	19655
	Driver, wide	2	20141
	Toothed belt clamp	2	25059
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	1	19667

Set Motronic 100 SMI

			No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel		30521	
Set consisting	of:	30521	No.
and	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TT TT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Į

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*	p. e aea	cut to size	24798

Connecting pins for running tracks

Connecting bolts, 6-piece set 17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Ĩ.	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
•	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
and a state	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

		No.
	Commissioning box	23789
6.Dr 6000	SMI adapter for commissioning box	30363

Start-up box

No.

Technical data Hawa Motronic 100 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 70 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

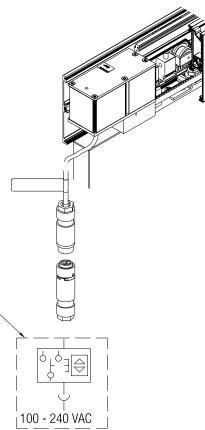
Switch elements:

Mains isolation device:

Hawa N	Notronic 100 🖌	▲
Artikel-Nr. Kontakt Charge	30317 www.hawa.com 20ZZ/YYYYYYY	Hawa
100–240 VA Geschwindig	0016XXXXXX, Bj: 20ZZ t max. 100 N, IP54 C, 50/60 Hz, 30 W gkeit max. 7 cm/s p20 °C bis +60 °C	C€ <u>Â</u> ⊧+→

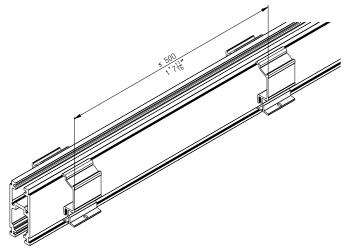
Actuation and operation of the system

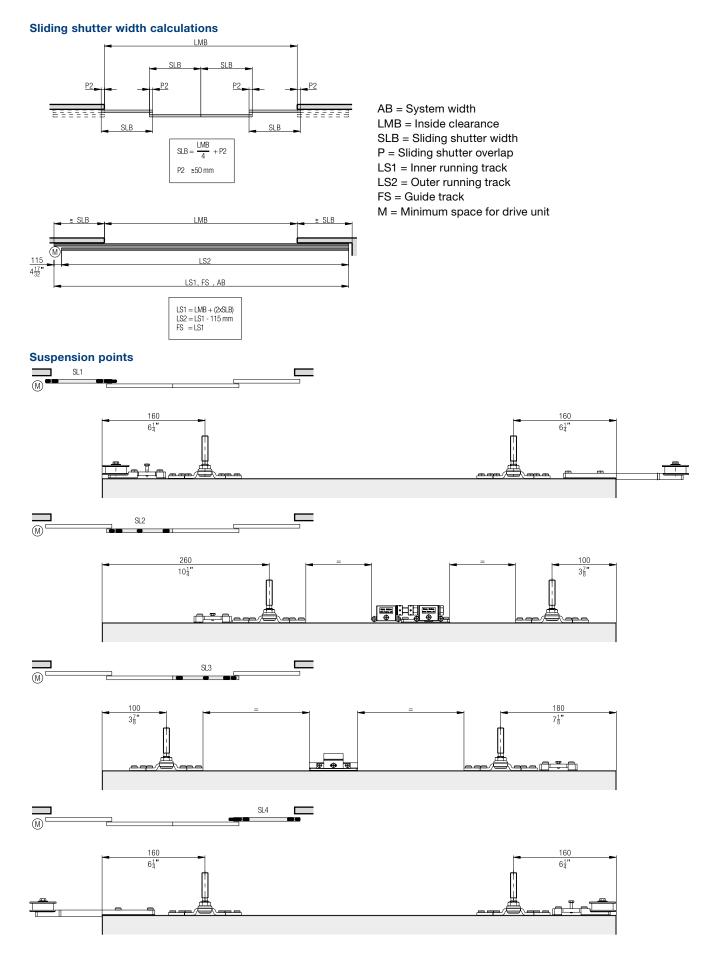
The system can be operated with normal commercial sun blind switches.

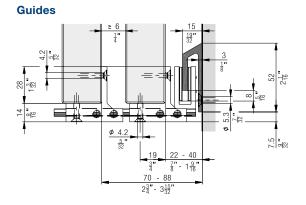


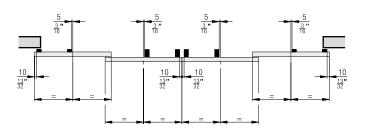
* to be provided by customer

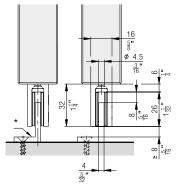
Panel attachment component installation













* to be provided by customer

Planning/execution

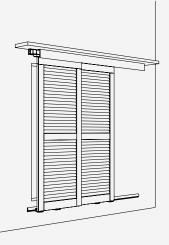
- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Automated fitting with SMI interface for 2 wooden or metal shutters up to 90 kg (198 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

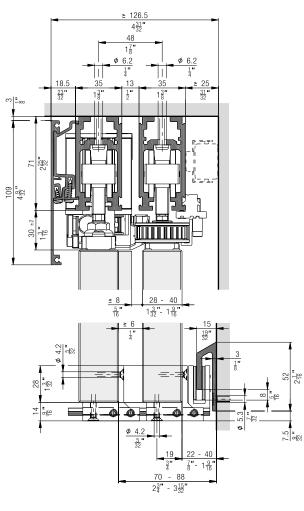
샾	Comfort	Automated system with building control interface Optimized individual use of daylight
٢	Aesthetics	Convertible, living façade with interesting design features



Technical specifications

\triangle	Max.	90 kg (198 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')

Installation examples



Set for 2 sliding shutters up to 90 kg (198 kg)

			No.
Hawa Frontslide 100 Matic Telescopic 2, for 2 sliding shutters			25141
Set consisting of:		No.	
	Two-wheeled running gear, M10, plastic wheels	4	24552
	Top fixing plate, stainless steel, with hanger bolt M10	4	24564
	Toothed belt clamp	1	25059
	Guide pulley wheel, with fixing plate, long	1	20139
	Guide pulley wheel, with fixing plate, short	1	20140
	Driver, wide	1	20141
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208

Set Motronic 100 SMI

			No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel		30521	
Set consisting	of:	30521	No.
and	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TER TE	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

	mm (inch)	No.
	3500 (11' 5 25/32'')	24840
Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
	cut to size	24798

Connecting pins for running tracks

M	W	
---	---	--

Connecting bolts, 6-piece set 17221

Guide tracks

		mm (inch)	No.
	Guide track,	6000 (19' 8 7/32'')	24460
·	aluminum, anodized, pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A State of the sta	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

No. Commissioning box 23789 SMI adapter for commissioning box 30363

Start-up box

No.

Technical data Hawa Motronic 100 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 70 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

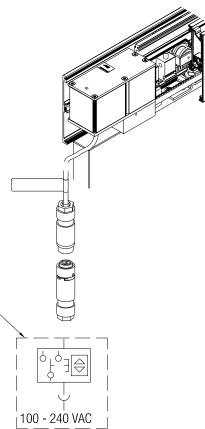
Switch elements:

Mains isolation device:

Hawa N	Notronic 100 🗲	▲ I- →
Artikel-Nr. Kontakt Charge	30317 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 VA Geschwindig	0016XXXXXX, Bj: 20ZZ t max. 100 N, IP54 C, 50/60 Hz, 30 W gkeit max. 7 cm/s p20 °C bis +60 °C	€€ <u>Â</u>

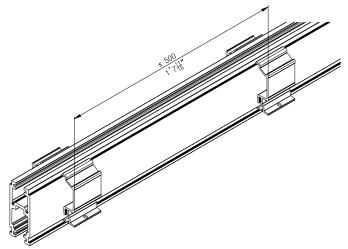
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

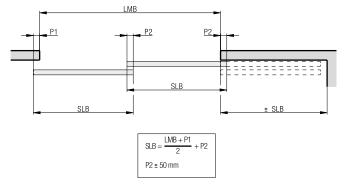


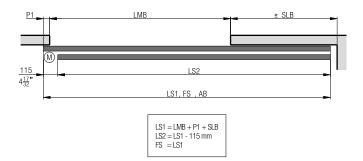
* to be provided by customer

Panel attachment component installation



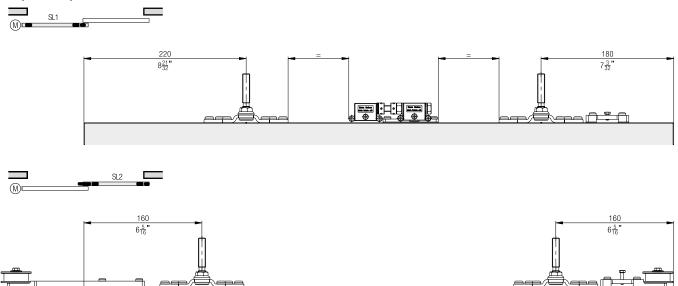
Sliding shutter width calculations

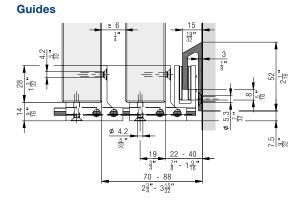


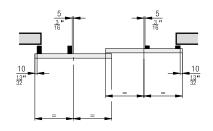


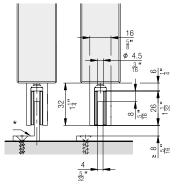
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

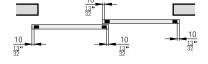
Suspension points











* to be provided by customer

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Automated fitting with SMI interface for 3 wooden or metal shutters up to 80 kg (176 lbs.), with screwed on running track. Ceiling or architrave mounting.

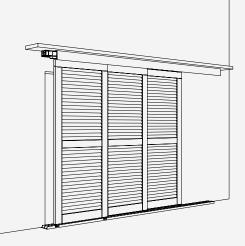
Product highlights

Ŷ	 Comfort Automated system with building control i Optimized individual use of daylight 	
٦	Aesthetics	Convertible, living facade with interesting design

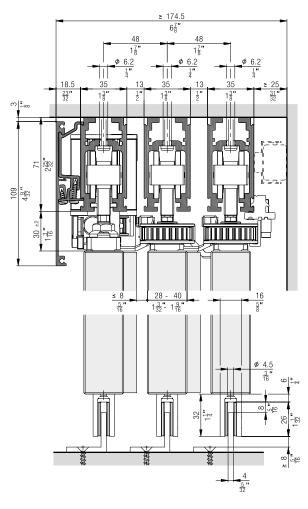
Aesthetics Convertible, living façade with interesting design features

Technical specifications

\triangle	Max.	80 kg (176 lbs.)
$\mathop{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{\longrightarrow}$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→∏←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



Set for 3 sliding shutters up to 80 kg (176 lbs.)

			No.
Hawa Frontslide 100 Matic Telescopic 3, for 3 sliding shutters		25142	
Set consisting of:		25142	No.
	Two-wheeled running gear, M10, plastic wheels	6	24552
	Top fixing plate, stainless steel, with hanger bolt M10	6	24564
	Toothed belt clamp	1	25059
<u>e</u>	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
3	Driver, narrow	1	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	2	20208

Set Motronic 100 SMI

			No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel		30521	
Set consisting	of:	30521	No.
and the	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
OD DB	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TER TER	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16"), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

Į

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*1	p. e aea	cut to size	24798

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Ĩ.	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A CONTRACTOR	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
000	Guide slider, for screw fixing	24542

Start-up box

		No.	
	Commissioning box	23789	
E.D.	SMI adapter for commissioning box	30363	

Г

Technical data Hawa Motronic 100 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 70 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

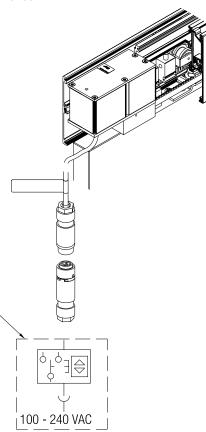
Switch elements:

Mains isolation device:

Hawa N	Notronic 100 🛛 🗲	▶ _ →
Artikel-Nr. Kontakt Charge	30317 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 VA Geschwindig	0016XXXXXX, Bj: 20ZZ : max. 100 N, IP54 C, 50/60 Hz, 30 W gkeit max. 7 cm/s p20 °C bis +60 °C	C€ <u>ଛ</u> ⊦-→

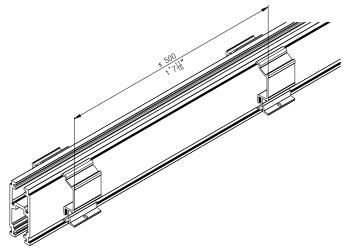
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

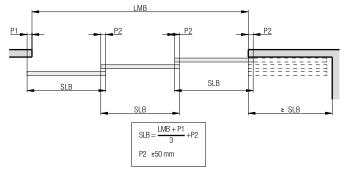


* to be provided by customer

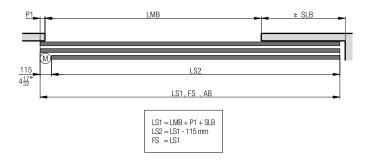
Panel attachment component installation



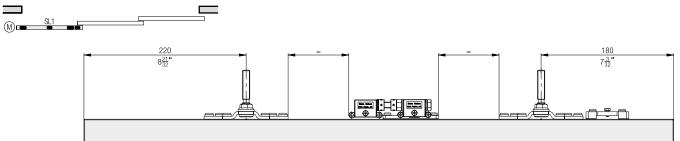
Sliding shutter width calculations



AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

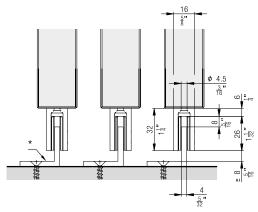


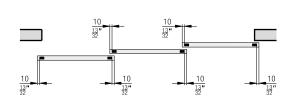
Suspension points





Guides





* to be provided by customer

Planning/execution

 Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)

- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Automated fitting with SMI interface for 4 wooden or metal shutters up to 70 kg (154 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

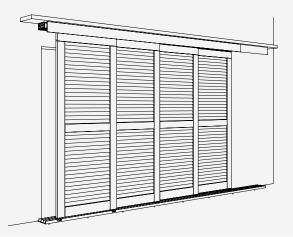
 \mathcal{L}

Comfort	Automated system with building control interface
	Optimized individual use of daylight

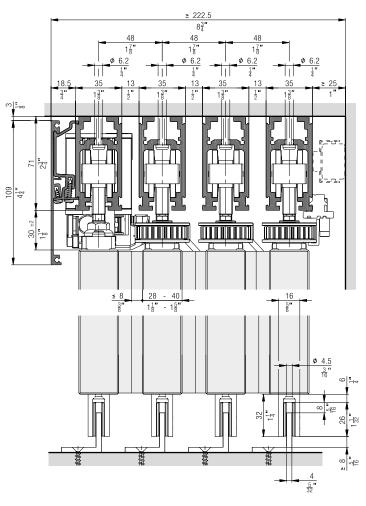
Aesthetics Convertible, living façade with interesting design features

Technical specifications

\triangle	Max.	70 kg (154 lbs.)
$\stackrel{\uparrow}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{\longrightarrow}$		650–1200 mm (2' 1 19/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–40 mm (1 3/32'' to 1 9/16'')



Installation examples



Set for 4 sliding shutters up to 80 kg (176 lbs.)

			No.
Hawa Frontslide 100 Matic Telescopic 4, for 4 sliding shutters		25143	
Set consisting	Set consisting of:		No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
e g Mai	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
A REFERENCE	Toothed belt clamp	1	25059
	Guide pulley wheel, with fixing plate, long	3	20139
A CONTRACTOR	Guide pulley wheel, with fixing plate, short	3	20140
E.	Driver, wide	3	20141
3	Driver, narrow	2	20142
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	3	20208

Set Motronic 100 SMI

			No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel		30521	
Set consisting	of:	30521	No.
and the	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
TT TT	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt

Toothed belt length calculation: 2 x system width

	No.
Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
Toothed belt, 15 m (49' 2 9/16"), fibre glass reinforced, black	20370
Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

Į

		mm (inch)	No.
		3500 (11' 5 25/32'')	24840
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24797
*1	p. e aea	cut to size	24798

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Ĩ.	pre-drilled	cut to size	24462

Panels

	mm (inch)	No.
	3500 (11' 5 25/32'')	24845
Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
	cut to size	24809
Cover panel,	6000 (19' 8 7/32'')	24810
aluminum	cut to size	24811

Panel attachment components

		No.
A State of the sta	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
000	Guide slider, for screw fixing	24542

Start-up box

		No.	
	Commissioning box	23789	
E.D.	SMI adapter for commissioning box	30363	

Г

Technical data Hawa Motronic 100 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 70 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

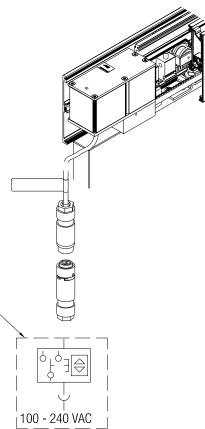
Switch elements:

Mains isolation device:

Hawa N	Notronic 100 🗲	▲ I- →
Artikel-Nr. Kontakt Charge	30317 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 VA Geschwindig	0016XXXXXX, Bj: 20ZZ t max. 100 N, IP54 C, 50/60 Hz, 30 W gkeit max. 7 cm/s p20 °C bis +60 °C	€€ <u>Â</u>

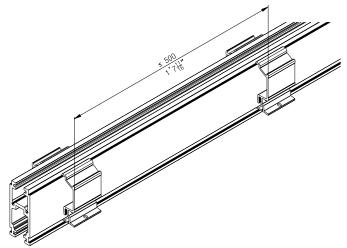
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

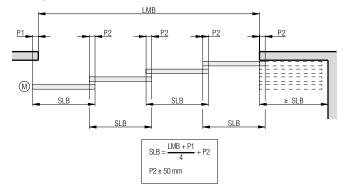


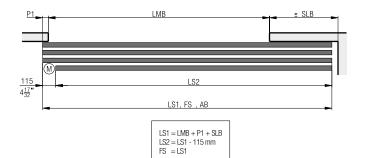
* to be provided by customer

Panel attachment component installation



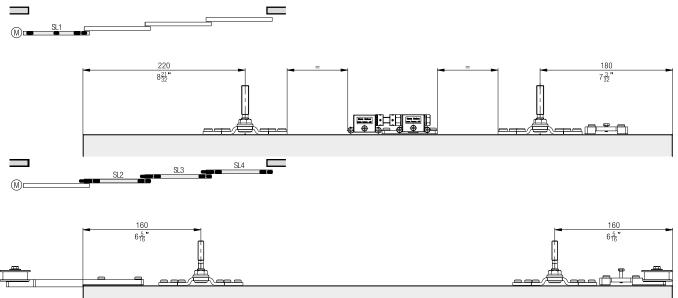
Sliding shutter width calculations



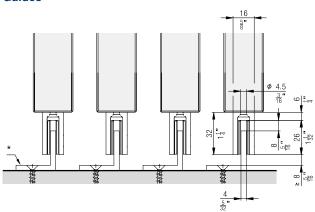


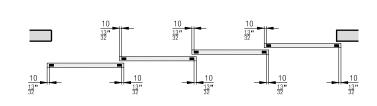
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

Suspension points









* to be provided by customer

Planning/execution

 Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)

- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Fitting for top-running wooden or metal shutters up to 140 kg (309 lbs.), with screwed on running track. Ceiling or architrave mounting.

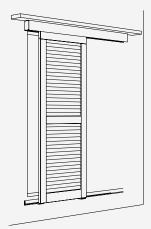
Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
	Coourity	The shutters withstand over stormy winds

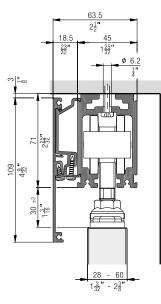
Security The shutters withstand even stormy winds, both open and closed

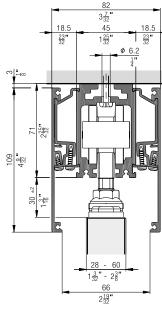
Technical specifications

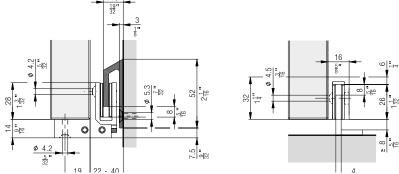
\triangle	Max.	140 kg (309 lbs)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		700–3750 mm (2' 3 9/16'' to 12' 3 5/8'') (Max. shutter area 9.6 m² (103 ft²))
→[]←		28–60 mm (1 3/32'' to 2 3/8'')



Installation examples







Set for 1 sliding shutter up to 140 kg (309 lbs.)

			No.
Hawa Frontslide	e 140 A, for 1 sliding shutter		25130
Set consisting of:		25130	No.
e e e	Two-wheeled running gear, M12, plastic wheels	2	24554
600 A 20	Top fixing plate, stainless steel, with hanger bolt M12	2	24567
	Track stop with adjustable retainer	2	24835

Running tracks

_		mm (inch)	No.
		3500 (11' 5 25/32'')	24841
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24799
		cut to size	24800

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

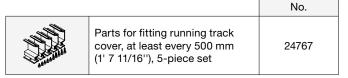
Guide tracks

		mm (inch)	No.
	Guide track,	6000 (19' 8 7/32'')	24460
1	aluminum, anodized, pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
/		6000 (19' 8 7/32'')	24808
		cut to size	24809
•	Cover panel, aluminum	6000 (19' 8 7/32'')	24810
		cut to size	24811

Panel attachment components



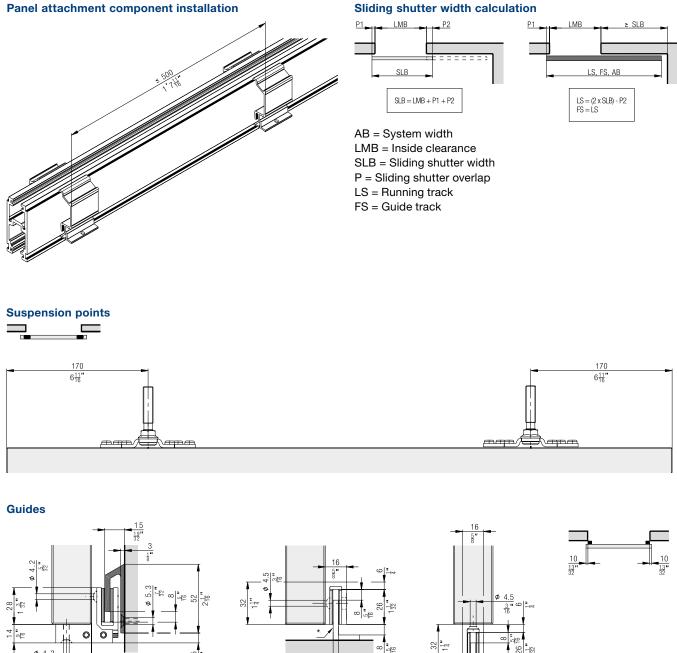
Guides

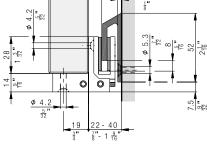
		No.
the state	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

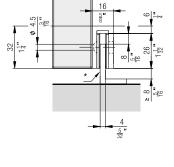
Accessories

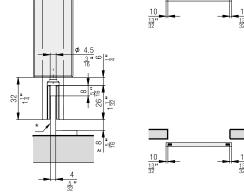
		No.
	Front cover plates, aluminum, anodized, for ceiling fitting, 1 pair	24817
AND	Front cover plates, aluminum, for ceiling fitting, 1 pair	24819











* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

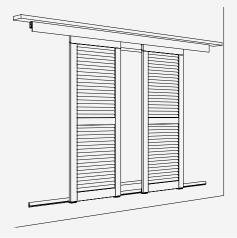
Further information about the product can be found on www.hawa.com.

Fitting for 2 symmetrically opening wooden or metal shutters up to 140 kg (309 lbs.). With screwed on running track. Ceiling or architrave mounting.

Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
	Coourity	The chuttere withstand even starmy winds

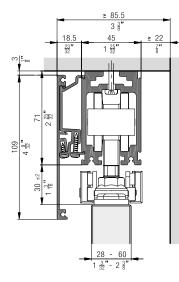
Security The shutters withstand even stormy winds, both open and closed

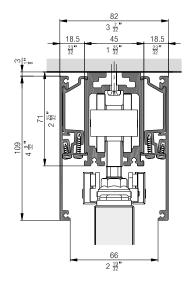


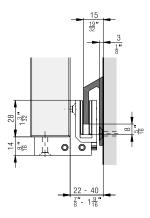
Technical specifications

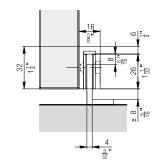
\square	Max.	140 kg (309 lbs)
$\mathop{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		700–1500 mm (2' 3 9/16'' to 4' 11 1/16'') (Max. shutter area 3.84 m² (41 ft²))
→[]←		28–60 mm (1 3/32'' to 2 3/8'')

Installation examples









Set for 2 sliding shutters up to 140 kg (309 lbs.)

			No.
Hawa Frontslide 140 A-Symmetric 2, for 2 sliding shutters			25451
Set consisting of:		25451	No.
· ·	Two-wheeled running gear, M12, plastic wheels	4	24554
6 0 M 0	Top fixing plate, stainless steel, with hanger bolt M12	4	24567
	Track stop with adjustable retainer	1	24835
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
	Driver, laterally adjustable for manual systems	1	20353
	Toothed belt lock for manual systems	1	20352

Toothed belt

Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Г

. .

Running tracks

	mm (inch)	No.
	3500 (11' 5 25/32'')	24841
Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24799
	cut to size	24800

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

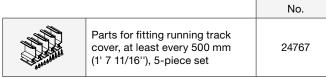
Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

	mm (inch)	No.
Cover panel, aluminum, anodized Cover panel, aluminum	3500 (11' 5 25/32'')	24845
	6000 (19' 8 7/32'')	24808
	cut to size	24809
	6000 (19' 8 7/32'')	24810
	cut to size	24811

Panel attachment components

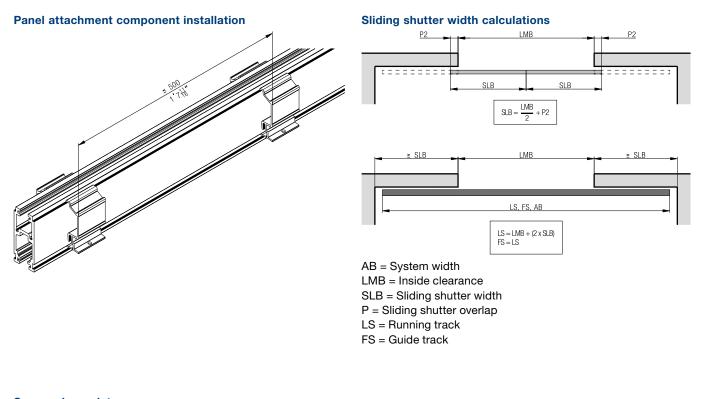


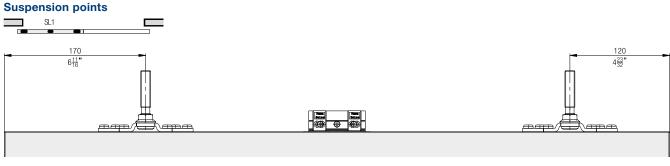
Guides

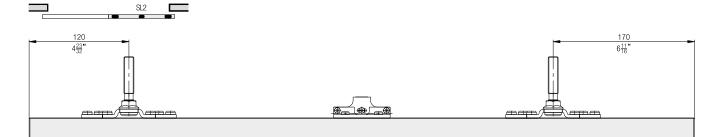
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

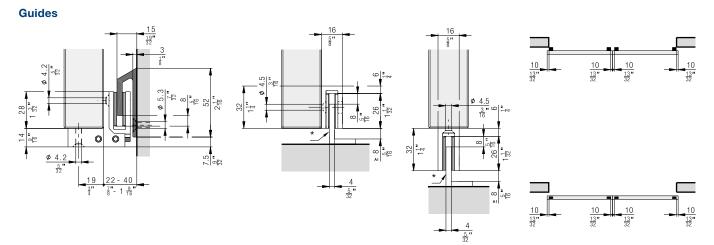
Accessories

		No.
	Front cover plates, aluminum, anodized, for ceiling fitting, 1 pair	24817
ANNO TO THE REAL PROPERTY OF	Front cover plates, aluminum, for ceiling fitting, 1 pair	24819









* to be provided by customer

Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

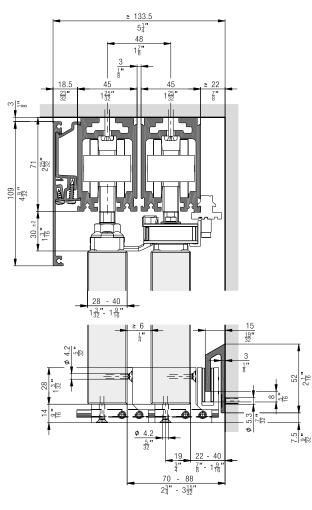
Fitting for 2 wooden or metal shutters up to 140 kg (309 lbs.), with screwed on running track. Ceiling or architrave mounting.

Product highlights

٢	Aesthetics	Attractive design solution for exciting and modern façade design
9	Security	The shutters withstand even stormy winds, both open and closed



\triangle	Max.	140 kg (309 lbs)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		700–1200 mm (2' 3 9/16'' to 3' 11 1/4'') (Max. shutter area 3.84 m² (41 ft²))
→∏←		28–40 mm (1 3/32'' to 1 9/16'')



Set for 2 sliding shutters up to 140 kg (309 lbs.)

			No.
Hawa Frontslide 140 A Telescopic, for 2 sliding shutters			25131
Set consisting of:		25131	No.
	Two-wheeled running gear, M12, plastic wheels	4	24554
69 A 9	Top fixing plate, stainless steel, with hanger bolt M12	4	24567
	Track stop with adjustable retainer	2	24835
	Toothed belt clamp	1	25060
	Guide pulley wheel, with fixing plate, long	1	20139
	Guide pulley wheel, with fixing plate, short	1	20140
	Driver, wide	1	20141
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208

Running tracks

		mm (inch)	No.
		3500 (11' 5 25/32'')	24841
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24799
		cut to size	24800

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Ĩ	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.	
A DE LA DE L	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767	

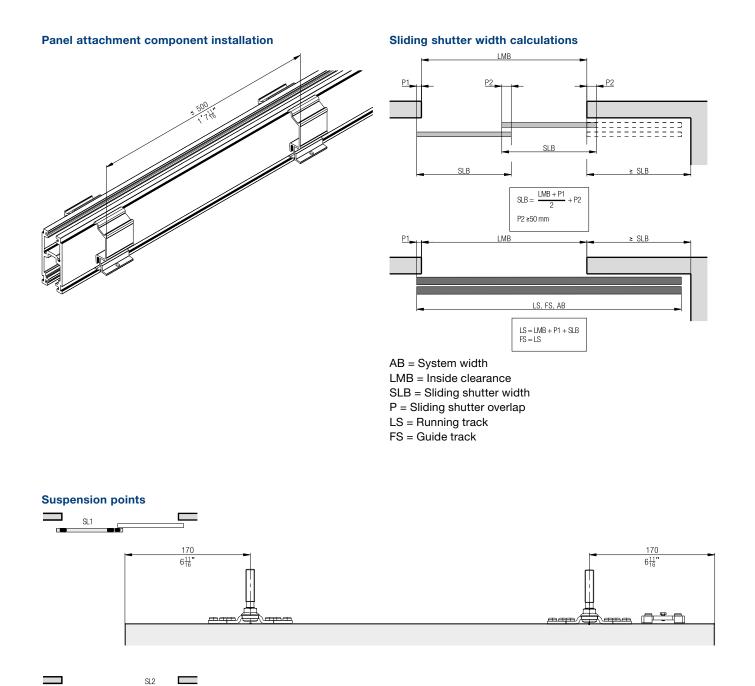
٢

Guides

		No.
le le	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

170

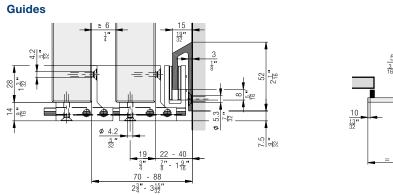
 $6\frac{11}{16}$

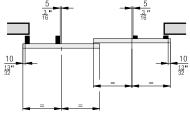


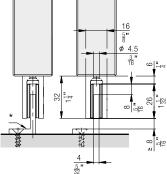
4

170

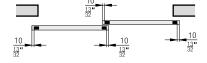
 $6\frac{11}{16}$







* to be provided by customer



Accessories

- Sliding shutter bolts from page 190

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

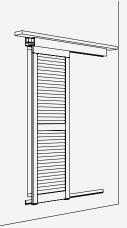
Automated fitting with SMI interface for wooden or metal shutters up to 140 kg (309 lbs.), with screwed on running track. Ceiling or architrave mounting.

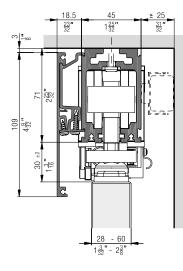
Product highlights

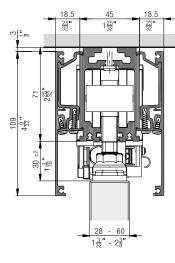
산	Comfort	Automated system with building control interface Optimized individual use of daylight
9	Security	Extremely robust sliding shutter that has been tested for 100,000 cycles
		High resistance to wind and corrosion

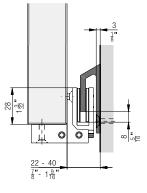
Technical specifications

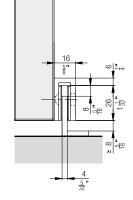
\triangle	Max.	140 kg (309 lbs)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		750–3750 mm (2' 5 17/32'' to 12' 3 5/8'') (Max. shutter area 6.24 m² (67 ft²))
→[]←		28–60 mm (1 3/32'' to 2 3/8'')











Set for 1 sliding shutter up to 140 kg (309 lbs.)

			No.
Hawa Frontslide 140 Matic, for 1 sliding shutter			25144
Set consisting of:		25144	No.
	Two-wheeled running gear, M12, plastic wheels	2	24554
100 000 000 000 000 000 000 000 000 000	Top fixing plate, stainless steel, with hanger bolt M12	2	24567

Set Motronic 140 SMI

			No.
	Hawa Motronic 140 SMI for Hawa Frontslide 140 Matic, incl. control unit, toothed belt lock and pulley wheel		30522
Set consisting	of:	30522	No.
and the	Hawa Motronic 140 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30318
ST DB	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
ALL ALL	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt Toothed belt length calculation: 2 x system width

		No.
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

Ì

		mm (inch)	No.
/////		3500 (11' 5 25/32'')	24841
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24799
т Ц	p. c aca	cut to size	24800

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

	No.
Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
6.D Brid	SMI adapter for commissioning box	30363

Accessories

		No.
	Front cover plates, aluminum, anodized, for ceiling fitting, 1 pair	24817
A STATE OF THE STA	Front cover plates, aluminum, for ceiling fitting, 1 pair	24819

Technical data Hawa Motronic 140 SMI

Drive with integrated controller, with SMI 3.0 \mbox{BF} interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 50 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

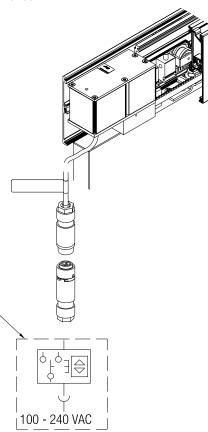
Switch elements:

Mains isolation device:

Hawa I	Motronic 140 🗲	▶ _ →
Artikel-Nr. Kontakt Charge	30318 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 VA Geschwindi	0016XXXXXX, Bj: 20ZZ ft max. 100 N, IP54 IC, 50/60 Hz, 30 W gkeit max. 5 cm/s Ip20 °C bis +60 °C	(€ <u>Â</u>

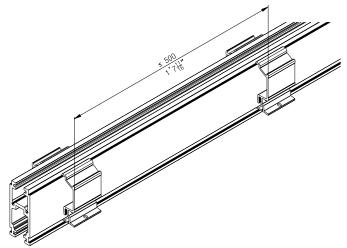
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

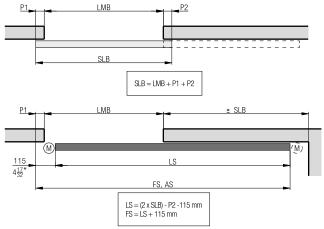


* to be provided by customer

Panel attachment component installation



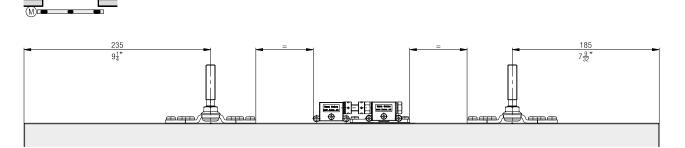
Sliding shutter width calculation



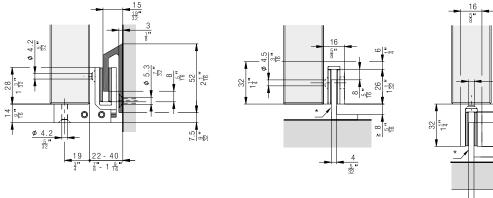
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track

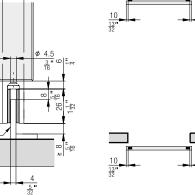
M = Minimum space for drive unit





Guides





10

* to be provided by customer

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

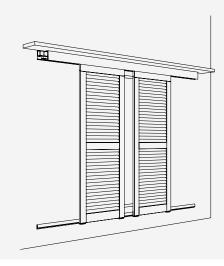
Automated fitting with SMI interface for 2 symmetrically opening wooden or metal shutters up to 100 kg (220 lbs.). With screwed on running track. Ceiling or architrave mounting.

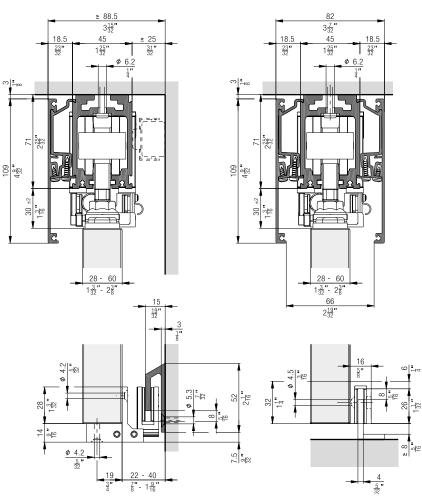
control interface

Product highlights	
🖓 Comfort	Automated system with building control inter Optimized individual use of daylight
Productivity	Increases energy efficiency in the building

Technical specifications

\triangle	Max.	100 kg (220 lbs.)
$\mathop{\uparrow}_{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\leftarrow \rightarrow$		750–1875 mm (2' 5 17/32'' to 6' 1 13/16'') (Max. shutter area 6.24 m² (67 ft²))
→∏←		28–60 mm (1 3/32'' to 2 3/8'')





Set for 2 sliding shutters up to 100 kg (220 lbs.)

			No.
	Hawa Frontslide 140 Matic Symmetric 2, for 2 sliding shutters		25452
Set consisting of: 25452		25452	No.
	Two-wheeled running gear, M12, plastic wheels	4	24554
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Top fixing plate, stainless steel, with hanger bolt M12	4	24567
	Driver for Symmetric-installations	1	19655

Set Motronic 140 SMI

	NO.
Hawa Motronic 140 SMI for Hawa Frontslide 140 Matic, incl. control unit, toothed belt lock and pulley wheel	30522

Set consisting of:		30522	No.
and the	Hawa Motronic 140 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30318
an Di	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
T. T. T.	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Toothed belt Toothed belt length calculation: 2 x system width

		No.
\bigcirc	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	20208
	Toothed belt, 5 m (16' 4 27/32''), fibre glass reinforced, black	19667
	Toothed belt, 8 m (26' 2 31/32''), fibre glass reinforced, black	19682
	Toothed belt, 10 m (32' 9 11/16''), fibre glass reinforced, black	19668
	Toothed belt, 15 m (49' 2 9/16''), fibre glass reinforced, black	20370
	Toothed belt, 50 m (164' 1/2''), fibre glass reinforced, black	19669

Running tracks

		mm (inch)	No.
/////		3500 (11' 5 25/32'')	24841
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24799
* (cut to size	24800

Г

Connecting pins for running tracks

		No.
MA	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
Í	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
		3500 (11' 5 25/32'')	24845
	Cover panel, aluminum, anodized	6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A CONTRACTOR OF THE OWNER	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Guides

		No.
and	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
000	Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
6.D. Brid	SMI adapter for commissioning box	30363

Accessories

		No.
	Front cover plates, aluminum, anodized, for ceiling fitting, 1 pair	24817
A STATE OF THE STA	Front cover plates, aluminum, for ceiling fitting, 1 pair	24819

Technical data Hawa Motronic 140 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 50 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

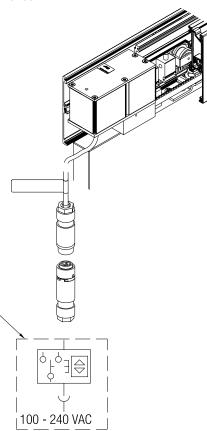
Switch elements:

Mains isolation device:

Hawa	Motronic 140 🗲	
Artikel-Nr. Kontakt Charge	30318 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 V Geschwind	0016XXXXXX, Bj: 20ZZ ft max. 100 N, IP54 AC, 50/60 Hz, 30 W ligkeit max. 5 cm/s np20 °C bis +60 °C	C€ <u>ଛ</u> ⊪→

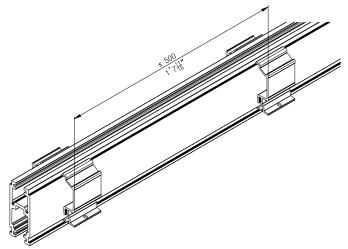
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

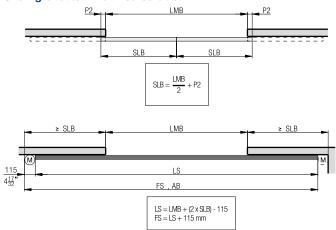


* to be provided by customer

Panel attachment component installation

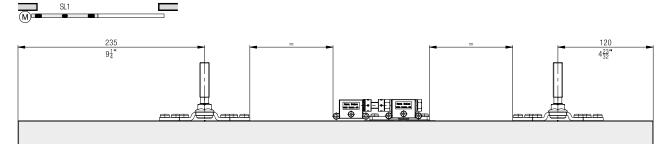


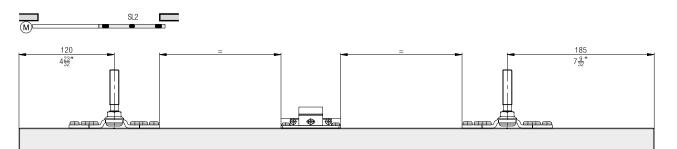
Sliding shutter width calculation



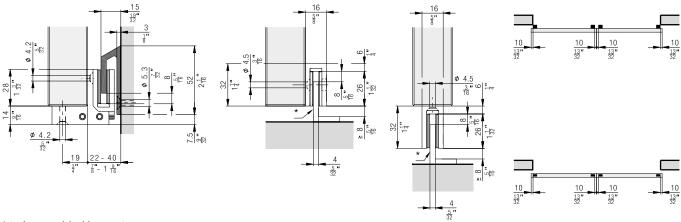
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS = Running track FS = Guide track M = Minimum space for drive unit











* to be provided by customer

Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Automated fitting with SMI interface for 2 wooden or metal shutters up to 140 kg (309 lbs.), with screwed on running track. Ceiling or architrave mounting.

Pro	duct highlights	
£	Comfort	Automated system with building control interface Optimized individual use of daylight
٢	Aesthetics	Convertible, living façade with interesting design

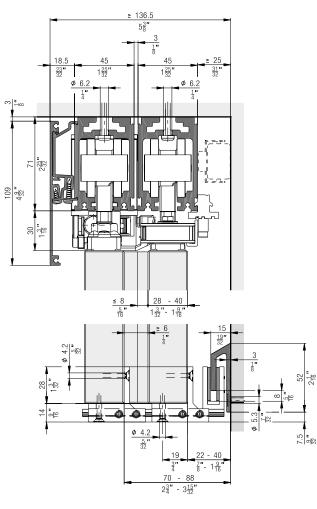
1 1 0 1 (0 0 0 11)

features

U

Technical specifications Д N.4.

\square	Max.	140 Kg (309 lbs)
$\stackrel{\uparrow}{\downarrow}$	Max.	3200 mm (10' 5 31/32'')
$\stackrel{\leftarrow}{=}$		750–1200 mm (2' 5 17/32'' to 3' 11 1/4'') (Max. shutter area 3.84 m ² (41 ft ²))
→∏←		28–40 mm (1 3/32'' to 1 9/16'')



Set for 2 sliding shutters up to 140 kg (309 lbs.)

			No.
Hawa Frontslide 140 matic Telescopic , for 2 sliding shutters			25145
Set consisting of:		25145	No.
e e e e e e e e e e e e e e e e e e e	Two-wheeled running gear, M12, plastic wheels	4	24554
6 0 M 0	Top fixing plate, stainless steel, with hanger bolt M12	4	24567
	Toothed belt clamp		25060
O	Guide pulley wheel, with fixing plate, long		20139
	Guide pulley wheel, with fixing plate, short	1	20140
	Driver, wide	1	20141
	Driver counter-plate, wide	1	20246
	Toothed belt, 2.7 m (8'10 5/16"), fibre glass reinforced, black	1	20208

Set Motronic 140 SMI

			No.
Hawa Motronic 140 SMI for Hawa Frontslide 140 Matic, incl. control unit, toothed belt lock and pulley wheel		30522	
Set consisting	of:	30522	No.
and the	Hawa Motronic 140 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30318
ON DE	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
THE TE	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

Running tracks

		mm (inch)	No.
/////		3500 (11' 5 25/32'')	24841
	Running track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32'')	24841 24799
		cut to size	24800

Connecting pins for running tracks

		No.
Ma	Connecting bolts, 6-piece set	17221

Guide tracks

		mm (inch)	No.
	Guide track, aluminum, anodized,	6000 (19' 8 7/32'')	24460
1	pre-drilled	cut to size	24462

Panels

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32'')	24845
		6000 (19' 8 7/32'')	24808
		cut to size	24809
	Cover panel,	6000 (19' 8 7/32'')	24810
	aluminum	cut to size	24811

Panel attachment components

		No.
A CONTRACTOR OF THE OWNER OWNER OF THE OWNER	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16''), 5-piece set	24767

Ē

Guides

	No.
Floor guide unit, short, for guide track	24543
Floor guide unit, long, for guide track	24544
Guide slider, for screw fixing	24542

Start-up box

		No.
	Commissioning box	23789
5.77 Start	SMI adapter for commissioning box	30363

Technical data Hawa Motronic 140 SMI

Drive with integrated controller, with SMI 3.0 BF interface, CE tested

Feed:

Max. preliminary fusing: Overvoltage category: Degree of protection: Temperature range: Contamination level: IP protection level: Max. speed: Max. drive power: 100 – 240 VAC, 50/60 Hz, 30 W 16 A II I -20° C to +60° C 1 IP 54 50 mm/s 100 N (with internal overload protection) Customer-provided Customer-provided

Type plate

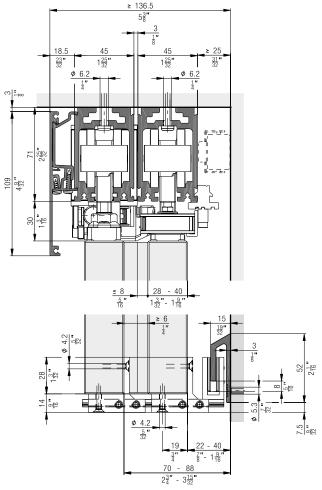
Switch elements:

Mains isolation device:

Hawa	Motronic 140	_ →
Artikel-Nr. Kontakt Charge	30318 www.hawa.com 20ZZ/YYYYYY	Hawa
100–240 V/ Geschwind	0016XXXXXX, Bj: 20ZZ ft max. 100 N, IP54 AC, 50/60 Hz, 30 W igkeit max. 5 cm/s np20 °C bis +60 °C	(€ <u>Â</u> ⊧+→

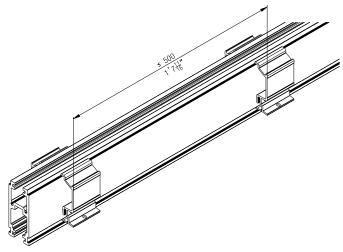
Actuation and operation of the system

The system can be operated with normal commercial sun blind switches.

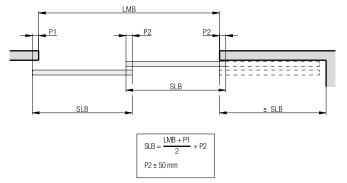


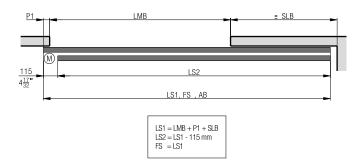
* to be provided by customer

Panel attachment component installation



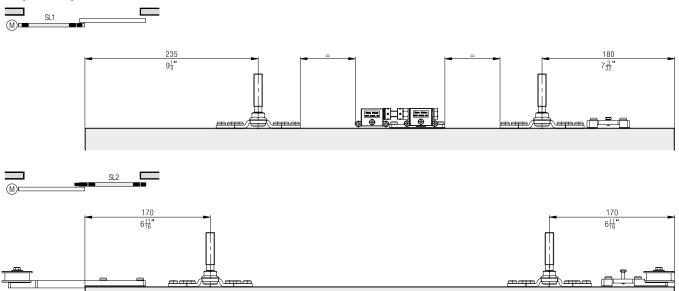
Sliding shutter width calculations



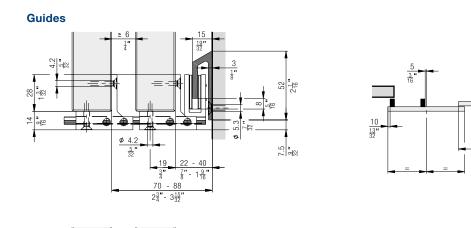


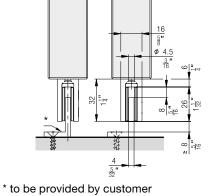
AB = System width LMB = Inside clearance SLB = Sliding shutter width P = Sliding shutter overlap LS1 = Inner running track LS2 = Outer running track FS = Guide track M = Minimum space for drive unit

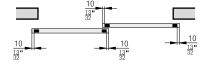
Suspension points



10







Planning/execution

- Corrosion resistance class 4 in accordance with EN 1670 (very good resistance)
- Wind resistance class overview from page 198

Further information about the product can be found on www.hawa.com.

Hawa Frontfold for folding sliding shutters Gives wings to the individual façade design

They radiate character, create exciting lighting situations, save space: Folding sliding shutters look good on any façade. And the innovative Hawa Frontfold 30 offers an optimal solution for every façade: with Forslide, Inslide and Mixslide constructions, inward and outward folding shutters, in even or odd leaf numbers. It not only offers the widest systems (up to 12 m), but also the widest range. And impressive comfort: Thanks to high-quality UV-resistant plastic rollers with friction bearings, shutters up to 30 kg can be pushed and folded with one hand. However, little of all these benefits is visible. Since the hinges are invisible from the outside, gap sizes can be reduced to 1 mm and, with the Forslide version, the tracks even disappear behind the closed leaves.



Area of application

Façade design on private and public buildings

System advantages

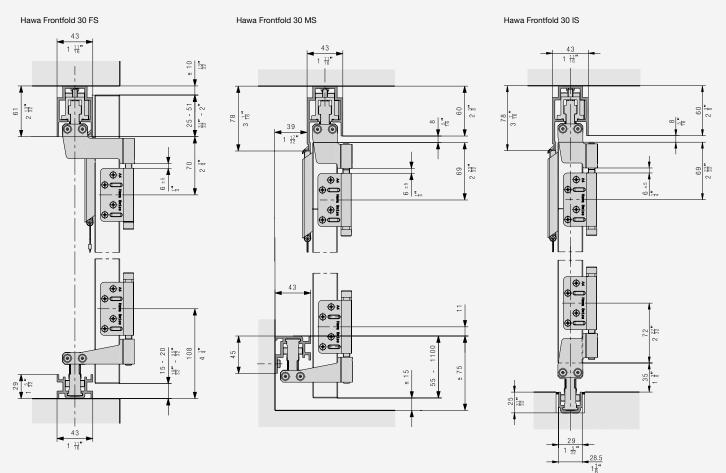
Flexibility	Forslide, Inslide and Mixslide as well as folding towards the inside and the outside Up to 10-leaf systems per side shading fronts up to 12 m long with even or odd number of leaves
Productivity	Drilling jig for the hinges simplifies pre-installation Height adjustment via the hanger bolt with standard tools
🖓 Comfort	Independent locking of the running gears for folded shutters by clipping in
Aesthetics	With the Forslide version, the tracks disappear behind the closed doors
Security	Corrosion-resistant materials for use in coastal areas without reservations

Technical specifications

\triangle	Max.	30 kg
$\mathop{\uparrow}_{\downarrow}$	Max.	3200 mm
$\stackrel{\leftarrow}{=}$		200-600 mm
→[]←		28–36 mm

Good to know (accessories)

- Tension latch with stainless steel cable
- Stainless steel rotary handle
- Hinges for minimal gap sizes



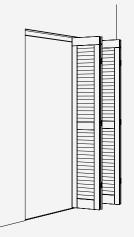
Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg (397 lbs.) per system, with concealed running and guide tracks. Design Forslide, open at the bottom.

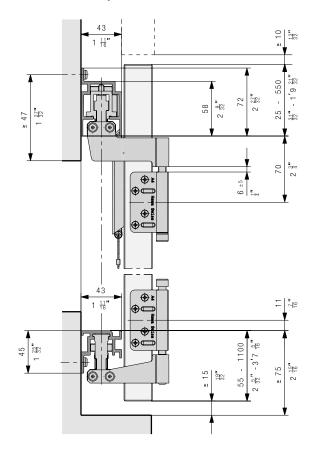
Product highlights

Aesthetics	Harmonious combination of shutters and façade, since the running and guide tracks disappear behind the closed shutter
↔ Flexibility	Solution for any construction situation with doors of up to 1.2 m^2 (13 ft ²) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16'')

Technical specifications

\triangle	Max.	30 kg (66 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10'5 31/32'')
$\stackrel{\leftarrow}{=}$	Max.	600 mm (1'11 5/8'')
$\rightarrow \left[\left] \leftarrow \right. \right.$		28–36 mm (1 3/32''–1 13/32'')





Set for folding packages

					No.
\vee	Hawa Frontfold 30 FS, basic set right, guide track open at the bottom			27555	
	Hawa Frontfold 30 FS, basic set left, guide track open at the		ttorr	ı	27556
	Hawa Frontfold 30 FS, additional set, guide track open at the		tton	n	27557
Set consisting	of:	27555	27556	27557	No.
	Fixed suspension, Forslide, folding to the right	1			27517
	Running gear outside, Forslide, folding to the right	1			27519
	Fixed guide, Forslide, folding to the right, guide track open at the bottom	1			27528
	Outside guide, Forslide, folding to the right, guide track open at the bottom	1			27529
	Cylinder screw, M8x100 mm , A4-70	4	4	2	27401
	Hinge ring, plastic	2	2	1	15740
	Hinge plate cranked, one-piece, stainless steel A4	4	4		27418
	Fixed suspension, Forslide, folding to the left		1		27518
	Running gear outside, Forslide, folding to the left		1		27520
	Fixed guide, Forslide, folding to the left, guide track open at the bottom		1		27527
	Outside guide, Forslide, folding to the left, guide track open at the bottom		1		27530
	Centre running gear, Forslide			1	27521
	Centre guide, Forslide, guide track open at the bottom			1	27531
	Hinge plate cranked, two pieces, stainless steel A4			4	27419

Set for uneven number of leafs

				No.
Hawa Frontfold 30 FS uo, set for uneven number of leafs left			30164	
Hawa Frontfold set for uneven n	30 FS uo, umber of leafs right			30167
Set consisting of:		30164	30167	No.
	Fixed suspension, Forslide, folding to the left	1		27518
	Fixed guide, Forslide, folding to the left, guide track open at the bottom	1		27527
	Hinge plate cranked, one-piece, stainless steel A4	2	2	27418
er freeder and the second seco	Cylinder screw, M8x100 mm, A4-70	2	2	27401
	Hinge ring, plastic	1	1	15740
	Fixed suspension, Forslide, folding to the right		1	27517
	Fixed guide, Forslide, folding to the right, guide track open at the bottom		1	27528

Subject to technical modifications. Metric specifications are exact. Inches are approximate.

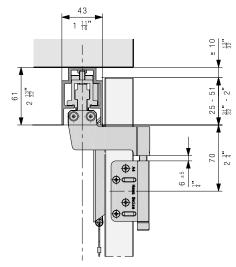
Running tracks

		mm (inch)	No.
	Running track, Forslide,	6000 (19'8 7/32'')	27358
	wall mounting, aluminum, anodized	cut to size	27622
÷	Running track, Forslide,	6000 (19'8 7/32'')	27360
	ceiling mounting, aluminum, anodized	cut to size	27623

Guide tracks

	mm (inch)	No.
Guide track, wall mounting,	6000 (19'8 7/32'')	27364
aluminum, anodized	9 ,	27625
Guide track, floor	6000 (19'8 7/32'')	27366
mounting, aluminum, anodized	cut to size	27626
Guide track, narrow,	6000 (19'8 7/32'')	27368
aluminum, anodized	cut to size	27627

Running track, mounted on ceiling



Accessories

		No.
	Tension latch, opening outwards, with steel cable, without fixing screws	27490
	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
	Flat hinge, gap size 1–6 mm, (1/32'' to 1/4'') stainless steel A4	27421
	Cranked hinge, gap size 6 mm, stainless steel A4	27595
	Hinge plate cranked, two pieces, stainless steel A4	27419
	Hinge plate flat, two pieces, stainless steel A4	27420
	Hinge pin A4	20187
00	Drilling jig for hinge, Ø 3mm for screw fixing, including threaded bolt	27551
	Drilling jig for hinge, Ø 5mm for riveting, including threaded bolt	27552
Ó	Stop with adjusting screw, suita- ble for profile bar 8 mm from the espagnolette locking device	15899

Planning folding package

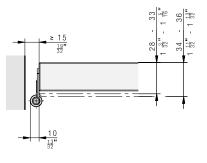
Customer installation of a wind support is recommended.

With an odd number of doors, the last door must be secured by the customer.

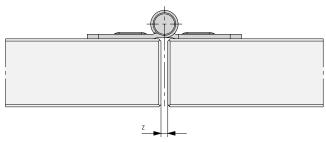


Running gear and guide hinge

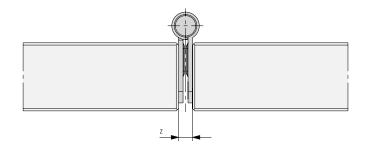
With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



Options folding hinges

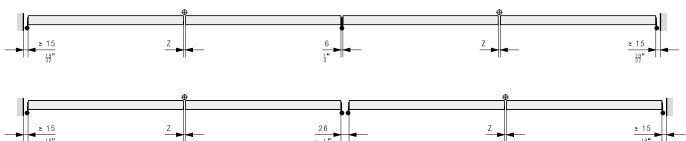


Variant 1, flat hinge: Z = 1-6 mm (1/32" to 1/4")



Variant 2, cranked hinge: Z = 6 mm (1/4'')

Gap sizes



Number of hinges

Height	Quantity
up to 2000 mm	2
from 2001 mm	3

Ordering information

- Type and number of sets
- Type and number of hinges
- Type and number of tension latches and rotary handles
- Type and number of running tracks
- Type and number of guide tracks

Optional ordering information

- Type and number of drilling jigs
- Order overview from page 194

Planning/execution

Further information about the product can be found on www.hawa.com.

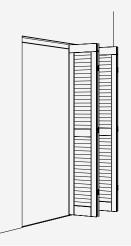
Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg (397 lbs.) per system, with concealed running and guide tracks. Design Forslide, open at the top.

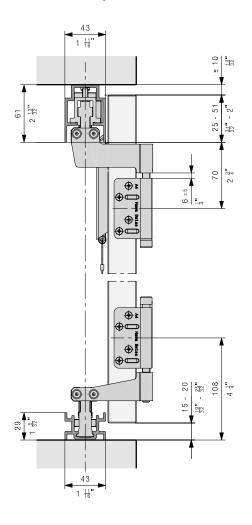
Product highlights

Aesthetics	Harmonious combination of shutters and façade, since the running and guide tracks disappear behind the closed shutter
<∲> Flexibility	Solution for any construction situation with doors of up to 1.2 m ² (13 ft ²) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16'')

Technical specifications

\triangle	Max.	30 kg (66 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10'5 31/32'')
$\stackrel{\leftarrow}{=}$	Max.	600 mm (1'11 5/8'')
$\rightarrow \left[\left \leftarrow \right. \right.$	2	28–36 mm (1 3/32''–1 13/32'')





Set for foldhing packages

					No.
Hawa Frontfold 30 FS, basic set right, guide track open at the top					27558
$ \vee$	Hawa Frontfold 30 FS, basic set left, guide track open at the		D		27559
	Hawa Frontfold 30 FS, additional set, guide track open at the)		27560
Set consisting	of:	27558	27559	27560	No.
	Fixed suspension, Forslide, folding to the right	1			27517
	Running gear outside, Forslide, folding to the right	1			27519
	Fixed guide, Forslide, folding to the right, guide track open at the top	1			27533
	Outside guide, Forslide, folding to the right, guide track open at the top	1			27534
	Cylinder screw, M8x100 mm, A4-70	4	4	2	27401
	Hinge ring, plastic	2	2	1	15740
	Hinge plate cranked, one-piece, stainless steel A4	4	4		27418
	Fixed suspension, Forslide, folding to the left		1		27518
	Running gear outside, Forslide, folding to the left		1		27520
	Fixed guide, Forslide, folding to the left, guide track open at the top		1		27532
	Outside guide, Forslide, folding to the left, guide track open at the top		1		27535
	Centre running gear, Forslide			1	27521
	Centre guide, Forslide, guide track open at the top			1	27537
	Hinge plate cranked, two pieces, stainless steel A4			4	27419

Set for uneven number of leafs

				No.
Hawa Frontfold 30 FS oo, set for uneven number of leafs left			30168	
Hawa Frontfold set for uneven n	30 FS oo, umber of leafs right			30169
Set consisting of:			No.	
	Fixed suspension, Forslide, folding to the left	1		27518
	Fixed guide, Forslide, folding to the left, guide track open at the top	1		27532
	Hinge plate cranked, one-piece, stainless steel A4	2	2	27418
	Cylinder screw, M8x100 mm, A4-70	2	2	27401
	Hinge ring, plastic	1	1	15740
	Fixed suspension, Forslide, folding to the right		1	27517
	Fixed guide, Forslide, folding to the right, guide track open at the top		1	27533

Running tracks

		mm (inch)	No.
	Running track, Forslide,	6000 (19'8 7/32'')	27358
	wall mounting, aluminum, anodized	cut to size	27622
	Running track, Forslide,	6000 (19'8 7/32'')	27360
	ceiling mounting, aluminum, anodized	cut to size	27623

_

Guide tracks

		mm (inch)	No.	
	Guide track,	6000 (19'8 7/32'')	27364	
	wall mounting, aluminum, anodized		27625	
	Guide track, floor mounting, aluminum, anodized	6000 (19'8 7/32'')	27366	
		cut to size	27626	
	Guide track, narrow,	6000 (19'8 7/32'')	27368	
	aluminum, anodized	cut to size	27627	

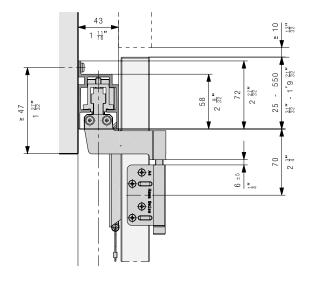
Accessories

		No.
	Tension latch, opening outwards, with steel cable, without fixing screws	27490
Ģ	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
	Flat hinge, gap size 1–6 mm (1/32'' to 1/4''), stainless steel A4	27421
	Cranked hinge, gap size 6 mm, stainless steel A4	27595
	Hinge plate cranked, two pieces, stainless steel A4	27419
	Hinge plate flat, two pieces, stainless steel A4	27420
	Hinge pin A4	20187
e _e	Drilling jig for hinge, Ø 3mm for screw fixing, including threaded bolt	27551
	Drilling jig for hinge, Ø 5mm for riveting, including threaded bolt	27552
٢	Stop with adjusting screw, suitable for profile bar 8 mm from the espagnolette locking device	15899

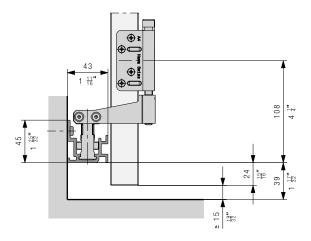
Г

٦

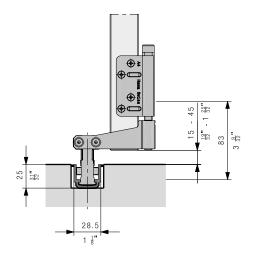
Running track wall installation



Guide track wall installation



Guide track embedded in the floor



Planning folding package

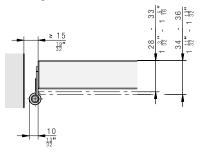
Customer installation of a wind support is recommended.

With an odd number of doors, the last door must be secured by the customer.

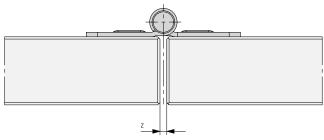


Running gear and guide hinge

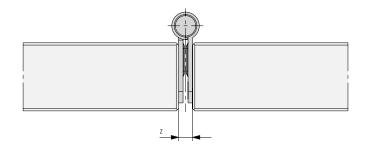
With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



Options folding hinges

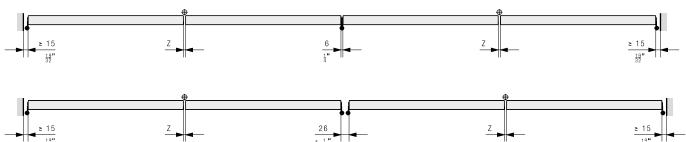


Variant 1, flat hinge: Z = 1-6 mm (1/32" to 1/4")



Variant 2, cranked hinge: Z = 6 mm (1/4'')

Gap sizes



Number of hinges

Height	Quantity
up to 2000 mm	2
from 2001 mm	3

Ordering information

- Type and number of sets
- Type and number of hinges
- Type and number of tension latches and rotary handles
- Type and number of running tracks
- Type and number of guide tracks

Optional ordering information

- Type and number of drilling jigs
- Order overview from page 194

Planning/execution

Further information about the product can be found on www.hawa.com.

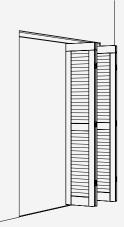
Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg ((397 lbs.) per system, with visible running track and concealed guide track. Design Mixslide, open at the bottom.

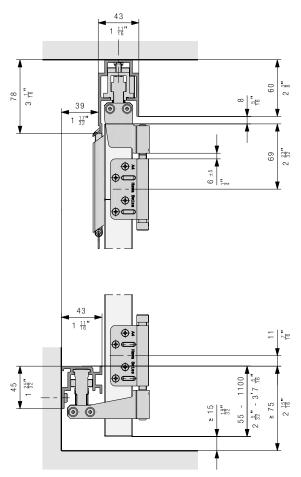
Product highlights

$\langle \rangle$	Flexibility	Solution for any construction situation with doors of up to 1.2 m ² (13 ft ²) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' $47/16''$)
Ø	Security	Corrosion-resistant materials for use in coastal areas without reservations

Technical specifications

\triangle	Max.	30 kg (66 lbs.)
${}^{\uparrow}_{\downarrow}[]$	Max.	3200 mm (10'5 31/32'')
$\leftarrow \rightarrow$	Max.	600 mm (1'11 5/8'')
$\rightarrow] \leftarrow$		28–36 mm (1 3/32''–1 13/32'')





Set for folding packages

					No.
	27561				
	Hawa Frontfold 30 MS basic set, left, guide track open at the	27562			
	Hawa Frontfold 30 MS additional set, guide track open at the		ttom	ı	27563
Set consisting	of:	27561	27562	27563	No.
	Fixed suspension, Inslide, folding to the right	1			27523
	Running gear out- side, Inslide, folding to the right	1			27524
	Fixed guide, Forslide, folding to the right, guide track open at the bottom	1			27528
	Outside guide, Forslide, folding to the right, guide track open at the bottom	1			27529
1	Cylinder screw, M8x100 mm, A4-70	4	4	2	27401
	Hinge ring, plastic	2	2	1	15740
	Hinge plate cranked, one-piece, stainless steel A4	4	4		27418
	Fixed suspension, Inslide, folding to the left		1		27522
	Running gear outside, Inslide, folding to the left		1		27525
	Fixed guide, Forslide, folding to the left, guide track open at the bottom		1		27527
	Outside guide, Forslide, folding to the left, guide track open at the bottom		1		27530
	Centre running gear, Inslide			1	27526
	Centre guide, Forslide, guide track open at the bottom			1	27531
Ge Fe	Hinge plate cranked, two pieces, stainless steel A4			4	27419

Set for uneven number of leafs

				No.
Hawa Frontfold set for uneven n	30170			
Hawa Frontfold set for uneven n	30 MS uo, umber of leafs right			30171
Set consisting	of:	30170	30171	No.
	Fixed suspension, Inslide, folding to the left	1		27522
	Fixed guide, Forslide, folding to the left, guide track open at the bottom	1		27527
	Hinge plate cranked, one-piece, stainless steel A4	2	2	27418
67	Cylinder screw, M8x100 mm, A4-70	2	2	27401
	Hinge ring, plastic	1	1	15740
	Fixed suspension, Inslide, folding to the right		1	27523
	Fixed guide, Forslide, folding to the right, guide track open at the bottom		1	27528

Running tracks

		mm (inch)	No.
	Running track, Inslide,	6000 (19'8 7/32'')	27362
	aluminum, anodized	cut to size	27624

Г

Guide tracks

		mm (inch)	No.
	Guide track, wall mounting, aluminum, anodized	6000 (19'8 7/32'')	27364
		cut to size	27625
	Guide track, floor mounting, aluminum, anodized	6000 (19'8 7/32'')	27366
		cut to size	27626
	Guide track, narrow, aluminum, anodized	cut to size	27627

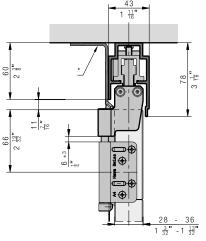
Г

Accessories

		No.
P	Tension latch, opening outwards, with steel cable, without fixing screws	27490
	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
	Flat hinge, gap size 1–6 mm (1/32'' to 1/4''), stainless steel A4	27421
	Cranked hinge, gap size 6 mm (1/4''), stainless steel A4	27595
	Hinge plate cranked, two pieces, stainless steel A4	27419
	Hinge plate flat, two pieces, stainless steel A4	27420
	Hinge pin A4	20187
	Drilling jig for hinge, Ø 3mm (1/8'') for screw fixing, including threaded bolt	27551
	Drilling jig for hinge, Ø 5mm (3/16'') for riveting, including threaded bolt	27552
Ô	Stopper with adjusting screw, suitable for profile bar 8 mm (5/16'') from the espagnolette locking device	15899
Ø	Strike plate, stainless steel , A4 to pull lach folding inwards	30464

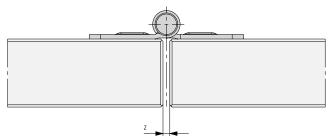


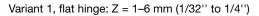
Running track folding inwards



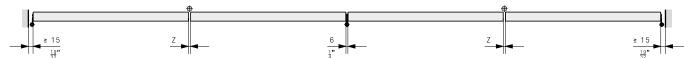
* Strike plate 30464 or on-site strike plate

Options folding hinges





Gap sizes



Number of hinges

Height	Quantity
up to 2000 mm	2
from 2001 mm	3

Ordering information

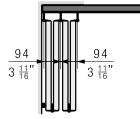
- Type and number of sets
- Type and number of hinges
- Type and number of tension latches and rotary handles
- Type and number of running tracks

- Type and number of guide tracks

Planning folding package

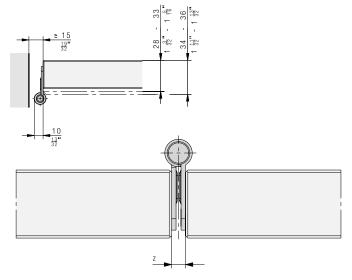
Customer installation of a wind support is recommended.

With an odd number of doors, the last door must be secured by the customer.



Running gear and guide hinge

With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



Variant 2, cranked hinge: Z = 6 mm (1/4'')

Optional ordering information

- Type and number of drilling jigs
- Order overview from page 194

Planning/execution

Further information about the product can be found on www.hawa.com.

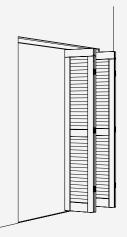
Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg ((397 lbs.) per system, with visible running track and concealed guide track. Design Mixslide, open at the top.

Product highlights

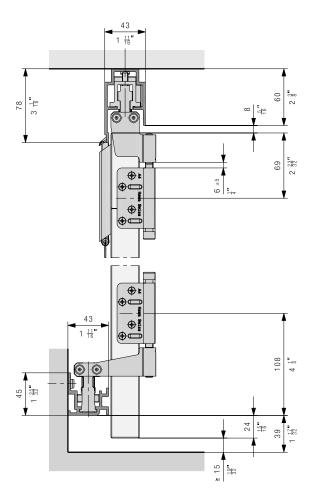
$\langle \rangle$	Flexibility	Solution for any construction situation with doors of up to 1.2 m ² (13 ft ²) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 $7/16''$)
Ø	Security	Corrosion-resistant materials for use in coastal areas without reservations

Technical specifications

$\overline{\mathbb{N}}$	Max.	30 kg (66 lbs.)
$\stackrel{\wedge}{\downarrow}$	Max.	3200 mm (10'5 31/32'')
$\stackrel{\leftarrow}{=}$	Max.	600 mm (1'11 5/8'')
$\rightarrow \left[\left[\leftarrow \right. \right.$:	28–36 mm (1 3/32''–1 13/32'')



Installation examples



Set for folding packages

					No.
	Hawa Frontfold 30 MS, basic set right, guide track open at the top			27564	
	Hawa Frontfold 30 MS basic set left, guide track open at the		D		27565
	Hawa Frontfold 30 MS additional set, guide track open at the)		27566
Set consisting	of:	27564	27565	27566	No.
	Fixed suspension, Inslide, folding to the right	1			27523
	Running gear out- side, Inslide, folding to the right	1			27524
	Fixed guide, Forslide, folding to the right, guide track open at the top	1			27533
	Outside guide, Forslide, folding to the right, guide track open at the top	1			27534
ST.	Cylinder screw, M8x100 mm, A4-70	4	4	2	27401
	Hinge ring, plastic	2	2	1	15740
	Hinge plate cranked, one-piece, stainless steel A4	4	4		27418
	Fixed suspension, Inslide, folding to the left		1		27522
	Running gear outside, Inslide, folding to the left		1		27525
	Fixed guide, Forslide, folding to the left, guide track open at the top		1		27532
	Outside guide, Forslide, folding to the left, guide track open at the top		1		27535
	Centre running gear, Inslide			1	27526
	Centre guide, Forslide, guide track open at the top			1	27537
	Hinge plate cranked, two pieces, stainless steel A4			4	27419

Set for uneven number of leafs

				No.
Hawa Frontfold 30 MS oo, set for uneven number of leafs left		30172		
Hawa Frontfold set for uneven n	30 MS oo, umber of leafs right			30174
Set consisting	of:	30172	30174	No.
	Fixed suspension, Inslide, folding to the left	1		27522
	Fixed guide, Forslide, folding to the left, guide track open at the top	1		27532
	Hinge plate cranked, one-piece, stainless steel A4	2	2	27418
e	Cylinder screw, M8x100 mm, A4-70	2	2	27401
	Hinge ring, plastic	1	1	15740
	Fixed suspension, Inslide, folding to the right		1	27523
	Fixed guide, Forslide, folding to the right, guide track open at the top		1	27533

Running tracks

		mm (inch)	No.
÷	Running track, Inslide,	6000 (19'8 7/32'')	27362
	aluminum, anodized	cut to size	27624

Guide tracks

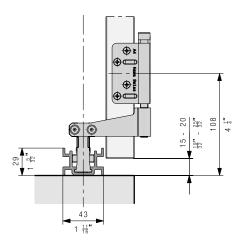
		mm (inch)	No.
Guide track, wall mounting, aluminum, anodized	· · · ·	6000 (19'8 7/32'')	27364
	cut to size	27625	
	Guide track, floor mounting, aluminum, anodized	6000 (19'8 7/32'')	27366
		cut to size	27626
	Guide track, narrow, aluminum, anodized	6000 (19'8 7/32'')	27368
		cut to size	27627

Accessories

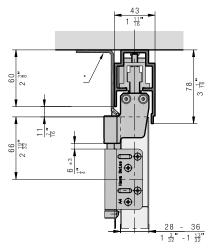
		No.
	Tension latch, opening outwards, with steel cable, without fixing screws	27490
	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
	Flat hinge, gap size 1–6 mm (1/32'' to 1/4''), stainless steel A4	27421
	Cranked hinge, gap size 6 mm (1/4''), stainless steel A4	27595
	Hinge plate cranked, two pieces, stainless steel A4	27419
	Hinge plate flat, two pieces, stainless steel A4	27420
	Hinge pin A4	20187
0	Drilling jig for hinge, Ø 3mm (1/8'') for screw fixing, including threaded bolt	27551
	Drilling jig for hinge, Ø 5mm (3/16'') for riveting, including threaded bolt	27552
Ì	Stopper with adjusting screw, suitable for profile bar 8 mm (5/16'') from the espagnolette locking device	15899
	Strike plate, stainless steel , A4 to pull lach folding inwards	30464



Guide track, floor mounting

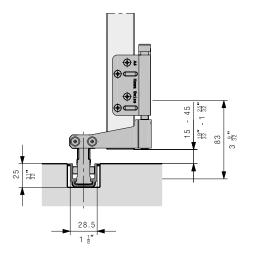


Running track folding inwards



* Strike plate 30464 or on-site strike plate

Guide track embedded in the floor



Planning folding package

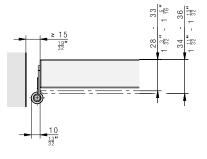
Customer installation of a wind support is recommended.

With an odd number of doors, the last door must be secured by the customer.

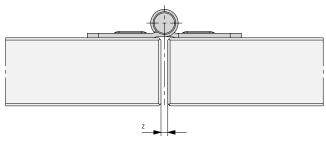


Running gear and guide hinge

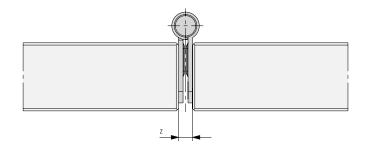
With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



Options folding hinges

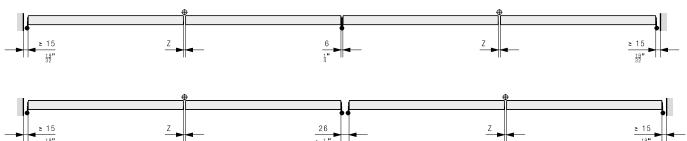


Variant 1, flat hinge: Z = 1-6 mm (1/32" to 1/4")



Variant 2, cranked hinge: Z = 6 mm (1/4'')

Gap sizes



Number of hinges

Height	Quantity
up to 2000 mm	2
from 2001 mm	3

Ordering information

- Type and number of sets
- Type and number of hinges
- Type and number of tension latches and rotary handles
- Type and number of running tracks
- Type and number of guide tracks

Optional ordering information

- Type and number of drilling jigs
- Order overview from page 194

Planning/execution

Further information about the product can be found on www.hawa.com.

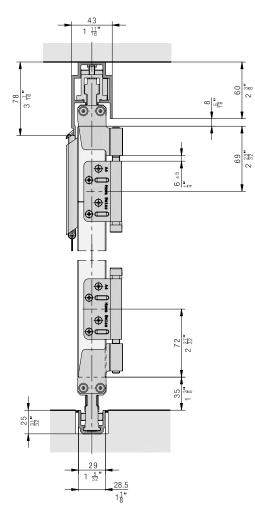
Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.)per shutter and 180 kg (397 lbs.) per system. Inside running for tight spaces. Design Inslide.

Proc	luct highlights		
\Leftrightarrow	Flexibility	Solution for any construction situation with doors of up to 1.2 m ² (13 ft ²) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16'')	
${\longleftrightarrow}$	Flexibility	Tension latches available for inwards-folding systems	
Tech	nnical specificati	ons	
\triangle	Max.	30 kg (66 lbs.)	
• •			F

命 Max.

\square	wax.	00 kg (00 lb3.)
${}^{\uparrow}_{\downarrow}$	Max.	3200 mm (10'5 31/32'')
$\stackrel{\leftarrow}{=}$	Max.	600 mm (1'11 5/8'')
→[]←		28–36 mm (1 3/32''–1 13/32'')

Installation examples



Subject to technical modifications. Metric specifications are exact. Inches are approximate.

Set for folding packages

					No.
	Hawa Frontfold 30 IS, basic set right				27567
	Hawa Frontfold 30 IS, basic set left		27568		
	Hawa Frontfold 30 IS, additional set				27569
Set consisting	of:	27567	27568	27569	No.
	Fixed suspension, Inslide, folding to the right	1			27523
	Running gear out- side, Inslide, folding to the right	1			27524
	Fixed guide, Inslide, folding to the right	1			27539
	Outside guide, Inslide, folding to the right	1			27540
6	Cylinder screw, M8x100 mm, A4-70	4	4	2	27401
	Hinge ring, plastic	2	2	1	15740
	Hinge plate cranked, one-piece, stainless steel A4	4	4		27418
	Fixed suspension, Inslide, folding to the left		1		27522
	Running gear out- side, Inslide, folding to the left		1		27525
	Fixed guide, Inslide, folding to the left		1		27538
	Outside guide, Inslide, folding to the left		1		27541
	Centre running gear, Inslide			1	27526
	Centre guide, Inslide			1	27542
	Hinge plate cranked, two pieces, stainless steel A4			4	27419

Set for uneven number of leafs

	No.			
Hawa Frontfold set for uneven n	30175			
Hawa Frontfold set for uneven n	30176			
Set consisting	30175	30176	No.	
	Fixed suspension, Inslide, folding to the left	1		27522
A A A A A A A A A A A A A A A A A A A	Fixed guide, Inslide, folding to the left		27538	
	Hinge plate cranked, one-piece, stainless steel A4	2	2	27418
0	Cylinder screw, M8x100 mm, A4-70	2	2	27401
	Hinge ring, plastic	1	1	15740
	Fixed suspension, Inslide, folding to the right	1	27523	
	Fixed guide, Inslide, folding to the right		1	27539

Running tracks

	mm (inch)	No.
Running track, Inslide,	6000 (19'8 7/32'')	27362
aluminum, anodized	cut to size	27624

Г

Guide tracks

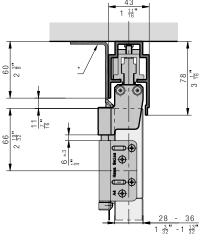
	mm (inch)	No.
Guide track, narrow,	6000 (19'8 7/32'')	27368
aluminum, anodized	cut to size	27627

Accessories

		No.
Ĩ	Tension latch, opening outwards, with steel cable, without fixing screws	27490
	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
B	Flat hinge, gap size 1–6 mm (1/32'' to 1/4''), stainless steel A4	27421
	Cranked hinge, gap size 6 mm (1/4''), stainless steel A4	27595
	Hinge plate cranked, two pieces, stainless steel A4	27419
	Hinge plate flat, two pieces, stainless steel A4	27420
Ĩ	Hinge pin A4	20187
e _e	Drilling jig for hinge, Ø 3mm (1/8'') for screw fixing, including threaded bolt	27551
Start Start	Drilling jig for hinge, Ø 5mm (3/16'') for riveting, including threaded bolt	27552
<u>()</u>	Stopper with adjusting screw, suitable for profile bar 8 mm (5/16'') from the espagnolette locking device	15899
<i>S</i>	Strike plate, stainless steel , A4 to pull lach folding inwards	30464

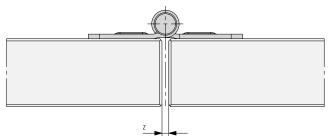


Running track folding inwards



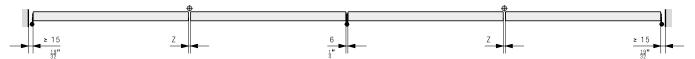
* Strike plate 30464 or on-site strike plate

Options folding hinges



Variant 1, flat hinge: Z = 1–6 mm (1/32''to 1/4'')

Gap sizes



Number of hinges

Height	Quantity
up to 2000 mm	2
from 2001 mm	3

Ordering information

- Type and number of sets
- Type and number of hinges
- Type and number of tension latches and rotary handles
- Type and number of running tracks
- Type and number of guide tracks

Optional ordering information

- Type and number of drilling jigs
- Order overview from page 194

Planning/execution

Further information about the product can be found on www.hawa.com.

Planning folding package

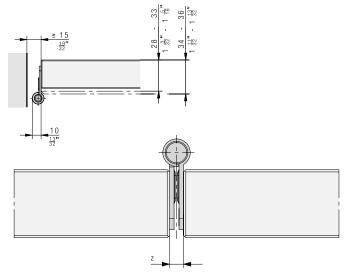
Customer installation of a wind support is recommended.

With an odd number of doors, the last door must be secured by the customer.



Running gear and guide hinge

With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



Variant 2, cranked hinge: Z = 6 mm (1/4'')

Sliding shutter interlocking up to 60 kg (132 lbs.)

			No.
Sliding shutter l	19319		
Set consisting	of:	19319	No.
99) 1000	Stopper to sliding shutter locking	1	19317
	Clamping piece for sliding shutter locking	1	19292
	Cable redirector for sliding shutter locking	1	19290

Sliding shutter lock up to 140 kg (309 lbs.)

		No.
	Catch for sliding shutters, with fixing screws, stainless steel	17155

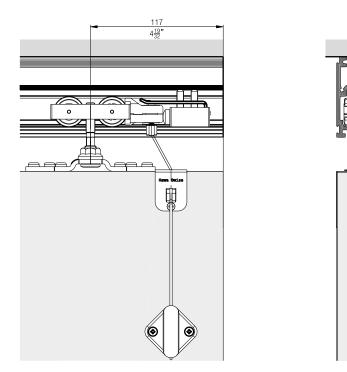
Sliding shutter arrester up to 140 kg (309 lbs.)

		No.
9	Sliding shutter locking device, 800 mm (2' 7 1/2'')	23714
	Sliding shutter locking device, 1200 mm (3' 11 1/4'')	23715

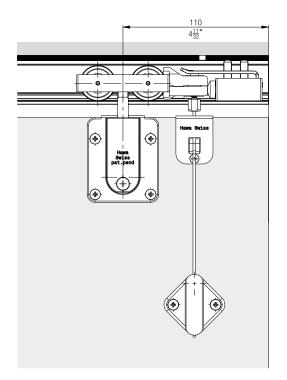
Sliding shutter interlocking up to 60 kg (132 lbs.)

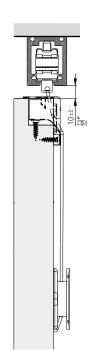
The sliding shutter interlocking of Hawa Frontslide 60 automatically engages when the sliding shutters are closing, and can only be released again from inside the room using a pull cable. The well-designed system also prevents the sliding shutters from opening by themselves in adverse wind conditions.

Sliding shutter interlocking in combination with Hawa Frontslide 60 A



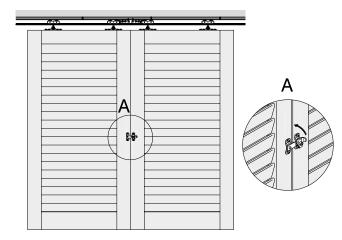
Sliding shutter interlocking in combination with Hawa Frontslide 60 B

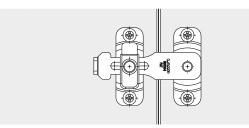


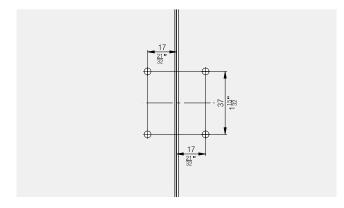


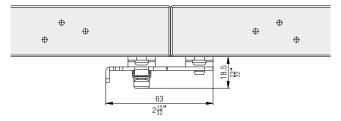
Sliding shutter lock up to 140 kg (309 lbs.)

Another possibility of preventing the sliding shutters from opening is the sliding shutter lock, which holds two adjacent sliding shutters together.







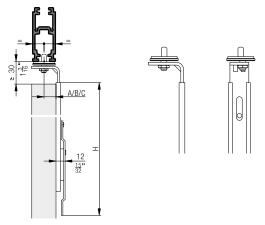


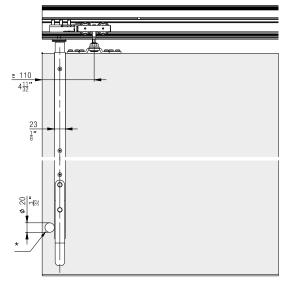
Sliding shutter arrester up to 140 kg (309 lbs.)

The sliding shutters can be held in any position with the sliding shutter arrester.

With an installation height of just 12 mm (15/32"), the arrester can be screwed on to any type of sliding shutter without the need for milling work, also retrospectively.

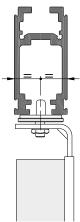
Two different installation lengths are available in order to have an optimum handle position.

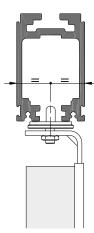


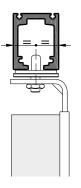


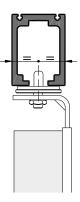
A: 16 mm (5/8") B: 20 mm (25/35") C: 25 mm (1") * Lock

Further installation examples









Hawa Frontfold Order overview

Number of leaves		2*		3*		4		5	
left	right	\vee	V	\wedge	\sim	\mathbb{W}	\sim	W	\square
Max. weight per leaf		Up to 30	kg (66 lbs.)	Up to 30	kg (66 lbs.)	Up to 30	kg (66 lbs.)	Up to 30	kg (66 lbs.)
FS guide open at the botton (Page 168)	1	1× 27556	1× 27555	1× 30164 1× 27557	1× 30167 1× 27557	1× 27556 1× 27557	1× 27555 1× 27557	1× 30164 2× 27557	1× 30167 2× 27557
FS guide open at the top (Page 172)		1× 27559	1× 27558	1× 30168 1× 27560	1× 30169 1× 27560	1× 27559 1× 27560	1× 27558 1× 27560	1× 30168 2× 27560	1× 30169 2× 27560
MS guide open at the botto (Page 177)	n	1× 27562	1× 27561	1× 30170 1× 27563	1× 30171 1× 27563	1× 27562 1× 27563	1× 27561 1× 27563	1× 30170 2× 27563	1× 30171 2× 27563
MS guide open at the top (Page 181)		1× 27565	1× 27564	1× 30172 1× 27566	1× 30174 1× 27566	1× 27565 1× 27566	1× 27564 1× 27566	1× 30172 2× 27566	1× 30174 2× 27566
Inslide (Page 186)		1× 27568	1× 27567	1× 30175 1× 27569	1× 30176 1× 27569	1× 27568 1× 27569	1× 27567 1× 27569	1× 30175 2× 27569	1× 30176 2× 27569

Accessories									
Rotary handle		1× 27458	1× 27458	2× 27458	2× 27458	2× 27458	2× 27458	3× 27458	3× 27458
Tension latch foldi	ng outwards **	1× 27490	1× 27490	2× 27490	2× 27490	2× 27490	2× 27490	3× 27490	3× 27490
Tension latch folding inwards **		1× 27491	1× 27491	2× 27491	2× 27491	2× 27491	2× 27491	3× 27491	3× 27491
Hinges	LH <2m	2× 27421	2× 27421	2× 27421	2× 27421	4× 27421	4× 27421	4× 27421	4× 27421
flat	LH >2m	3× 27421	3× 27421	3× 27421 1× 27595	3× 27421 1× 27595	6× 27421 1× 27595	6× 27421 1× 27595	6× 27421 2× 27595	6× 27421 2× 27595
Hinges	LH <2m	2× 27595	2× 27595	2× 27595	2× 27595	4× 27595	4× 27595	4× 27595	4× 27595
cranked	LH >2m	3× 27595	3× 27595	4× 27595	4× 27595	7× 27595	7× 27595	8× 27595	8× 27595

 * For less than 4 leaves, an overturn protection must be installed on site.

** For shutter size >1 m^2 double the number of tension latches is necessary to achieve wind resistance class 6

	6	-	7	1	8	Ş	9	10				
\sim												
	÷	•	•	· ,	·	· ·	·	· ,				
Up to 30) kg (66 lbs.)	Up to 25	kg (55 lbs.)	Up to 22.	5 kg (50 lbs.)	Up to 20	kg (44 lbs.)	Up to 18	kg (40 lbs.)			
1× 27556 2× 27557	1× 27555 2× 27557	1× 30164 3× 27557	1× 30167 3× 27557	1× 27556 3× 27557	1× 27555 3× 27557	1× 30164 4× 27557	1× 30167 4× 27557	1× 27556 4× 27557	1× 27555 4× 27557			
1× 27559 2× 27560	1× 27558 2× 27560	1× 30168 3× 27560	1× 30169 3× 27560	1× 27559 3× 27560	1× 27558 3× 27560	1× 30168 4× 27560	1× 30169 4× 27560	1× 27559 4× 27560	1× 27558 4× 27560			
1× 27562 2× 27563	1× 27561 2× 27563	1× 30170 3× 27563	1× 30171 3× 27563	1× 27562 3× 27563	1× 27561 3× 27563	1× 30170 4× 27563	1× 30171 4× 27563	1× 27562 4× 27563	1× 27561 4× 27563			
1× 27565 2× 27566	1× 27564 2× 27566	1× 30172 3× 27566	1× 30174 3× 27566	1× 27565 3× 27566	1× 27564 3× 27566	1× 30172 4× 27566	1× 30174 4× 27566	1× 27565 4× 27566	1× 27564 4× 27566			
1× 27568 2× 27569	1× 27567 2× 27569	1× 30175 3× 27569	1× 30176 3× 27569	1× 27568 3× 27569	1× 27567 3× 27569	1× 30175 4× 27569	1× 30176 4× 27569	1× 27568 4× 27569	1× 27567 4× 27569			
unning and guide	: e track according to	the construction si	tuation on the corre	esponding sides	<u>.</u>		<u>.</u>	<u>. </u>				
3× 27458	3× 27458	4× 27458	4× 27458	4× 27458	4× 27458	5× 27458	5× 27458	5× 27458	5× 27458			

3× 27458	3× 27458	4× 27458	4× 27458	4× 27458	4× 27458	5× 27458	5× 27458	5× 27458	5× 27458
3× 27490	3× 27490	4× 27490	4× 27490	4× 27490	4× 27490	5× 27490	5× 27490	5× 27490	5× 27490
3× 27491	3× 27491	4× 27491	4× 27491	4× 27491	4× 27491	5× 27491	5× 27491	5× 27491	5× 27491
6× 27421	6× 27421	6× 27421	6× 27421	8× 27421	8× 27421	8× 27421	8× 27421	10× 27421	10× 27421
9× 27421 2× 27595	9× 27421 2× 27595	9× 27421 3× 27595	9× 27421 3× 27595	12× 27421 3× 27595	12× 27421 3× 27595	12× 27421 4× 27595	12× 27421 4× 27595	15× 27421 4× 27595	15× 27421 4× 27595
6× 27595	6× 27595	6× 27595	6× 27595	8× 27595	8× 27595	8× 27595	8× 27595	10× 27595	10× 27595
11× 27595	11× 27595	12× 27595	12× 27595	15× 27595	15× 27595	16× 27595	16× 27595	19× 27595	19× 27595

Γ

٦

The right sliding solution on buildings for every need and every idea

🚖 On			Technical spe	ecifications					Desi	Exterior application				
buildings		→[]←	↑[] ↓	$\leftarrow \rightarrow$	·m²	→]m²		J-				\bigcirc	Ļ
Sliding shutters										_	_	_		
Hawa Frontslide	60/100/140	28–60	3200	min. 400				х	х	х	х		х	
Hawa Frontslide 60 A	60	min. 28	3200	400–3750	9.6	7500	9.6		х				х	
Hawa Frontslide 60 A Symmetric 2	60	28–45	3200	500–1500	3.84	6000	7.4		х				x	
Hawa Frontslide 60 A Symmetric 2+2	40	28–40	3200	550–1000	3.2	6000	12.8	x		х	x		x	
Hawa Frontslide 60 A Telescopic 2	60	28–40	3200	550–1200	3.84	3500	7.4	x		x	х		x	
Hawa Frontslide 60 A Telescopic 3	60	28–40	3200	550–1200	3.84	4650	11	х		x	x		x	
Hawa Frontslide 60 A Telescopic 4	60	28–40	3200	550–1200	3.84	5800	14.7	х		х	х		x	
Hawa Frontslide 60 A Low running track	60	28–45	3200	400–3750	9.6	7500	9.6		х				x	
Hawa Frontslide 60 B	60	28–40	3200	400–3750	9.6	7500	9.6		х				х	
Hawa Frontslide 100 A	100	28–50	3200	500–3750	9.6	7500	9.6		х				х	
Hawa Frontslide 100 A Symmetric 2	100	28–50	3200	550–1500	3.84	6000	7.4		х				x	
Hawa Frontslide 100 A Symmetric 2+2	70	28–40	3200	600–1000	3.2	6000	12.8	x		x	x		x	
Hawa Frontslide 100 A Telescopic 2	100	28–40	3200	600–1200	3.84	3500	7.4	x		x	x		x	
Hawa Frontslide 100 A Telescopic 3	100	28–40	3200	600–1200	3.84	4650	11	х		x	x		x	
Hawa Frontslide 100 A Telescopic 4	100	28–40	3200	600–1200	3.84	5800	14.7	х		x	x		x	
Hawa Frontslide 100 A Low running track	100	min. 28	3200	500–3750	9.6	7500	9.6		х				x	
Hawa Frontslide 140 A	140	28–60	3200	700–3750	9.6	7500	9.6		х				x	
Hawa Frontslide 140 A Symmetric 2	140	28–60	3200	700–1500	3.84	6000	7.4		х				x	
Hawa Frontslide 140 A Telescopic 2	140	28–40	3200	700–1200	3.84	6000	7.4	x		x	x		x	

🚖 On			Technical sp	ecifications					Desi	gn/instal	lation		Exterior application		
buildings		→[]←	↑[] ↓	$\stackrel{\leftarrow}{=}$	·m²	→]m²						Θ	Ļ	
			·												
Sliding shutters															
Hawa Frontslide Matic	60/100/140	28–60	3200		6.24	7500	14.7	x	х	х	х		х		
Hawa Frontslide 60 Matic	60	28–45	3200	600–3750	6.24	7500	6.24		х				х		
Hawa Frontslide 60 Matic Symmetric 2	60	28–45	3200	550–1875	6.24	7500	12		х				x		
Hawa Frontslide 60 Matic Symmetric 2+2	40	28–40	3200	650–1200	3.84	7000	14.7	x		x	х		x		
Hawa Frontslide 60 Matic Telescopic 2	60	28–40	3200	650–1200	3.84	3500	7.4	x		x	x		x		
Hawa Frontslide 60 Matic Telescopic 3	50	28–40	3200	650–1200	3.84	4650	11	х		х	х		x		
Hawa Frontslide 60 Matic Telescopic 4	40	28–40	3200	650–1200	3.84	5800	14.7	х		х	x		x		
Hawa Frontslide 100 Matic	100	28–50	3200	650–3750	6.24	7500	6.24		х				x		
Hawa Frontslide 100 Matic Symmetric 2	80	28–50	3200	600–1875	6.24	7500	12		х				x		
Hawa Frontslide 100 Matic Symmetric 2+2	70	28–40	3200	650–1200	3.84	7000	14.7	х		х	x		x		
Hawa Frontslide 100 Matic Telescopic 2	90	28–40	3200	650–1200	3.84	3500	7.4	х		х	x		x	-	
Hawa Frontslide 100 Matic Telescopic 3	80	28–40	3200	650–1200	3.84	4650	11	х		х	x		x		
Hawa Frontslide 100 Matic Telescopic 4	70	28–40	3200	650–1200	3.84	5800	14.7	x		x	x		x		
Hawa Frontslide 140 Matic	140	28–60	3200	750–3750	6.24	7500	6.24		х				x		
Hawa Frontslide 140 Matic Symmetric 2	100	28–60	3200	750–1875	6.24	7500	12		х				x		
Hawa Frontslide 140 Matic Telescopic 2	140	28–40	3200	750–1200	3.84	3500	7.4	х		х	x		x		
Folding sliding shutters															
Hawa Frontfold	30	28–36	3200	200–600		12000	38.4	х					х	х	
Hawa Frontfold 30 IS	30	28–36	3200	200–600		2×6000	2×19.2	х					х	х	
Hawa Frontfold 30 MS	30	28–36	3200	200–600		2×6000	2×19.2	х					х	х	
Hawa Frontfold 30 FS	30	28–36	3200	200–600		2×6000	2×19.2	х					х	х	
Hawa Frontego	30	28–32	700–3200	300–600	1.92	3.6 m	2×12	х					х	х	
Hawa Frontego 30 Matic	30	28–32	700–3200	300–600	1.92	3.6 m	2×12	х					х	х	
Special solution, stackable															
Hawa Aperto	60	35–50	2600	550–950	2.47	min. 550	min. 1	х					х		
Hawa Aperto 60 H	60	35–50	2600	550–950	2.47	min. 550	min. 1	х					х		
Windows						,	,		,	,	,	,		,	
Hawa Vertical	150	85	1200	3200*					х				х	х	
Hawa Vertical 150	150	85	1200	3200*					х				х	х	

* For larger leaves, the toothed belt and the guide tracks must be ordered separately.

Technical information

Hawa Frontslide

- Maximum attack surface per shutter with Hawa Frontslide Matic is 6.24 m².

Hawa Frontfold 30

- When closed, the fittings are tested to meet wind resistance class 6, in accordance with EN 13659.
- Max. attack surface per shutter is 1.2m². Larger shutters must be perforated accordingly as the wind resistance class will be reduced otherwise.
- From 1m² attack surface, a second tension latch must be installed, otherwise the wind resistance class will be reduced.
- Max. leaf weight 30 kg, max. weight of the complete system 180 kg (see order overview from page 196).
- From wind speeds of 60 km/h, the shutters must be moved to the safe position. Systems that fold outwards must be closed and tension latch hooked in, systems that fold inwards must be opened and secured to the wall.

General information

- Hawa Sliding Solutions AG generally recommends using stainless steel mounting screws and rivets. At least A2 quality, A4 for use in coastal areas.
- Do you need support or do you have an unusual idea? Contact us at info@hawa.com

DIN EN 13659		Wind resistance classes													
	0	1	2	3	4	5	6								
Nominal wind pressure (N/m²)	<50	50	70	100	170	270	400								
Safety pressure (N/m ²)	<75	75	100	150	250	400	600								
Wind velocity	< 32.5 km/h < 9 m/s	32.5 km/h 9 m/s				76 km/h 21.0 m/s									
Beaufort scale	< 5 bft	5 bft	6 bft	7 bft	8 bft	9 bft	10 bft								
Designation	moderate breeze	fresh breeze	strong breeze	high wind	gale	strong gale	storm								

Overview of wind resistance classes

The wind resistance class of the shutters is the responsibility of the manufacturer.

Wherever you are – we are there for you

Our integrated sales and service area is the right contact for inquiries concerning our solutions, products and systems. We look forward to you contacting us by e-mail or telephone.

Contact info@hawa.com, Tel. +41 44 787 17 17

Hawa Sliding Solutions AG Factory Mettmenstetten (headquarters) Untere Fischbachstrasse 4 8932 Mettmenstetten, Switzerland Hawa Sliding Solutions AG Factory Sirnach Wilerstrasse 90

8370 Sirnach, Switzerland

We would be pleased to support you worldwide:

North America

Our North American subsidiary is in Dallas, Texas, and looks after sales and technical partners in the USA and Canada.

Asia and the Pacific

Our latest subsidiary is in Singapore. We have been looking after sales and specialist partners in the South East Asia, Australia and Pacific Basin areas since 2017.

Middle East

Our subsidiary in Dubai has been advising and supporting our sales and specialist partners on the Arabian peninsula since 2005. In addition to the United Arab Emirates, we also look after partners in Saudi Arabia, Bahrain, Oman and other surrounding countries from here.

Hawa Group Americas Inc.

150 Turtle Creek Blvd, Ste 209A Dallas, TX 75207, United States of America Tel. +1 214 760 9054

Hawa Sliding Solutions APAC Pte. Ltd

123 Penang Road, #06-13 Regency House 238465 Singapore, Singapore Tel. +65 6887 4900

Hawa Middle East FZE

Office #608, 6th Floor, Jafza 16, Jebel Ali Free Zone Dubai, United Arab Emirates Tel. +971 4 887 3694

The right sliding solution for every need and every idea

Our overall product range for sliding solutions on buildings, in buildings and on furniture covers all requirements in all areas of application, movement types and sliding versions,

This overall product range will undergo continuous further development, Hawa Sliding Solutions also provides individual, made-to-measure solutions, Special solutions such as this are developed in close collaboration with our partners and customers, Perhaps together with you?

🚖 On		Technical specifications								gn/instal	Operation	Exter applica			
		→[]←	$ \begin{array}{c} \uparrow \\ \downarrow \end{array}]$	$\stackrel{\leftarrow}{=}$	'm²	→]m²		<u>}-</u>		00_			Θ	Ļ
Sliding shutters															
Hawa Frontslide	60/ 100/140	28–60	3200	min. 400	9,6	7500	14.7	x	х	х	х			x	
Hawa Frontslide Matic	60/ 100/140	28–60	3200	min. 550	6,24	7500	14.7	x	х	х	х			x	
Folding sliding shutters															
Hawa Frontfold	30	28–36	3200	200–600		12000	38.4	х						x	х
Hawa Frontego	30	28–32	700–3200	300–600	1.92	3.6 m	2×12	х						х	х
Special solution, stackable								•							
Hawa Aperto	60	35–50	2600	550–950	2.47	min. 550	min. 1	х						x	
Windows															
Hawa Vertical	150	85	1200*	3200**					х					х	х

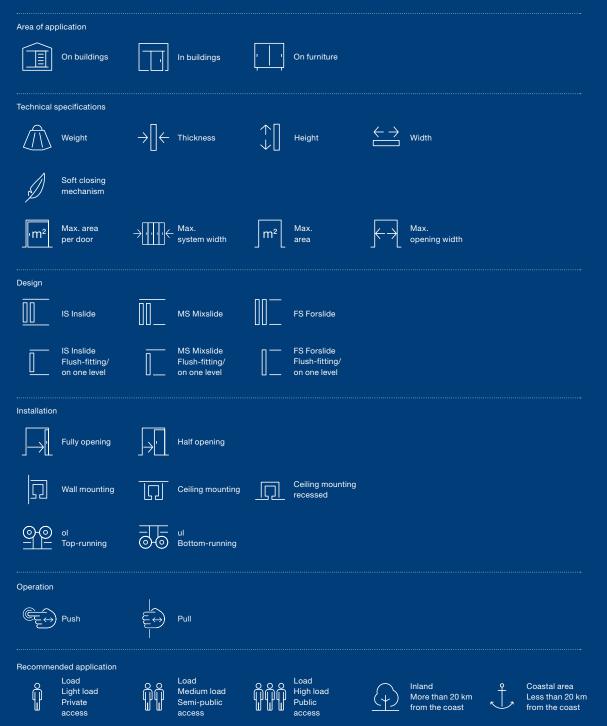
* With a height of 1,200 mm, the width is limited to 2,000 mm because of the pulley

** With a width of 3,200 mm, the height is limited to 900 mm because of the pulley

In		Tecl	hnical s	pecificatio	ns			Installation						ation	Recommended application			Exterior application	
L buildings	\triangle	→[]←	$\stackrel{\uparrow}{\downarrow}$	$\stackrel{\leftarrow}{=}$	⊬≯	Ø	Ω	Ω	Ω	<u>9</u> 0	90	, →[€		Ŷ	ŶŶ	ŶŶŶ	\bigcirc	Ļ
Wood																			
Sliding doors																_			
Hawa Junior	40/80/ 100/120 160/250		4000	3000		40/80/ 100/120	х	х	х	x		х			х	х	х		
Hawa Media	70	35–80	4000	3000			х	х		х					х	х			
Hawa Ordena	70	30-40	2600	3000				х	х	х					х	х			
Hawa Porta	40/45/ 60/100 300/600	18–100	6000	5000		40/60/ 100	х	x	х	x					x	x	х		
Hawa Silenta	150	35–80	4000	3000				х	х	х					х	х			
Hawa Super	500	45–100	6000	5000			х	х		х					х	х	х		
Hawa Suono	100	min. 51	2700	700	1340	х	х			х					х	х	х		
Sliding walls			-																
Hawa Aperto	60	35–50	2600	550–1500	13600			х		х		х			х	х	х	х	
Hawa Junior	80	32–80	4000	500–1200	6750			х		х		х			х	х	х		
Hawa Divido	100	28–30	2400	1200	6000	х	х	х	х	х	х				х	х	х		
Hawa Variotec	150	36–68	4000	700–1500	12000			х		х		х			х	х	х		
Folding sliding walls			<u> </u>			1		<u>.</u>		<u> </u>	<u> </u>	-	· · · ·				<u>.</u>		-
Hawa 20 c Folding wall	120	42-80	4000	1000	7000			х		х		х			х	х	x		
Hawa Centerfold	80	35–45 (57)	4000	500–900	6000			x	х	x		х			х	х	x		
Hawa Variofold	80	35–45 (57)	4000	500–900	6310			х	х	x		х			х	х	x		
Transport systems				-															,
Hawa Varioflex	40	35–80	4000	900				Х		Х						Х			<u> </u>
Glass																			
Sliding doors																			1
Hawa Junior	40/80/ 100/120 160/250	8–16	4000	3000		40/80/ 100/120	x	x	x	x					x	x	x		
Hawa Ordena	70	8–10.7	2600	600–3000				х	Х	x					х	х	x		
Hawa Porta		6–12.7	2700	1600		40/60/ 100	х	x	x	x					x	x	x		
Hawa Puro	150	8–12.7	3000	750–3000				х	х	х					х	х	х		
Hawa Purolino Plus	80	8–12.7	3000	600–3000		х	х	х	Х	х					х	х	х		
Hawa Super	250	8–80	4000	3000			х	х		х						х	х		
Sliding walls		:						:							1	:	:		:
Hawa Aperto	60	8–10 (30)	2600	500–1100	10900			х		x		х			х	x	х	х	
Hawa Divido	100	5.9–10 (30)	2750	1200	6000	х	х	x	Х	x	x				х	х	x		
Hawa Shopfront	400	(50)	3500	3000	12000			x		x						х	x	х	
Hawa Variotec	150	10–13 (36)	3500	700–1500				х		х		х				Х	х	х	
Folding sliding walls																			
Hawa Centerfold	80	10–13 (36)	2600	500–900	6000			x	х	x		x				x	x	х	
Hawa Variofold	80	10–13 (36)	2600	400–900	6310			х	Х	х						х	x	х	
Hawa Junior	80	8–16 (26)	3000	500–1200	3700			х		x		х			х	х	x		
Shower		:	-					:		:	:	:	,			:	:		;
Hawa Banio	40	8–9	2200	800	1500	х	Х			х					х	х	х		

On		Techni	cal specifica	ations				Desig	ın/insta	llation			Oper	ation	Recommended application		
, furniture	\triangle	→[]←	↑[] ↓	$\stackrel{\leftarrow}{=}$	Ð		00_			Ī_		Þ	Ę	-(Î	ŶŶ	ŶŶŶ
Wood		·					·		·	•		•					
Sliding doors																	
Hawa 220 Planfront	70	19–45	2600	400–1500					х		х	х			х	х	х
Hawa Aperto	40	19–25	2600	400–900		1			х						х	х	х
Hawa Clipo	15/16/ 26/36	10–25	2400	1200	х	x	х	x	x		х				х	x	х
Hawa Combino	20/35/ 40/50/ 65/80	19–40	2800	1600	x	x	x	x			x			•	х	x	x
Hawa Creation	65/80	6/19	2200	1200	х	x		х				-			х	х	х
Hawa Frontal	25	19	2000	800	х			х							х	х	х
Hawa Frontino	20/40	19–25	2400	600–1200	х						х				х	х	х
Hawa Libra	20	16–30	1000	1600					х		х				х	х	х
Hawa Miniroll	15/25	19–40	2600	1500		x									х	х	х
Hawa Regal A	25/40	19–50	2500	1200	х						х				х	х	х
Hawa Regal B	25	16–50	2000	1200	х	x			х		х				х	х	х
Hawa Regal C	16/26	16–19	2200	1200	х	x			х		х	-			х	х	х
Pivot and folding/sliding door	'S									•	•	•				•	
Hawa Concepta III	25/35	18–26	1200–2700	440–750	х				х	(х	х	х	х	х	х	х
Hawa Concepta	25/30/ 40/50	19–50	1250–2850	300–900	х				х	х	х	x		х	х	х	х
Hawa Folding Concepta	25	19–26	1250–2600	300–700					х	х	х	х		х	х	х	
Folding sliding doors																	
Hawa Multifold	30	19–25	2600	200–650					х	х	х				х	х	х
Pull-outs																	
Hawa Forte	170/340	16–40	2400	800	х						х			х	х	x	х
Glass																	
Sliding doors																	
Hawa Clipo	16/26/36	4–8 (12/20)	2000	1000	х	x			х						х	х	х
Hawa Frontal	25	4/6 (20/22)	2200	800	х			х							х	х	х
Hawa Regal A	25	4 (22)	2200	1200							х				х	х	х
Hawa Regal B	25	4–8	1800	1200	х						х				х	х	х
Hawa Regal C	16/26	4–6.35 (12/20)	2000	1000	х	x					х				х	х	х

Index icons





Hawa Sliding Solutions AG Untere Fischbachstrasse 4, 8932 Mettmenstetten, Switzerland Phone +41 44 787 17 17, info@hawa.com, www.hawa.com