

# Inspiring sliding solutions on buildings

Product overview and details







# Inspiring sliding solutions on buildings

**Hawa** Frontslide

**Hawa** Frontfold

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Order overview

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On buildings, in buildings, on furniture

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## 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.



## On buildings

Architecture comes to life.

- Sliding shutters
- Folding sliding shutters



## In buildings

Rooms become flexible and of high quality.

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



## On furniture

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.



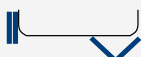
Sliding



Folding sliding



Pivot sliding



Pivot sliding



Sliding and stacking





**A statement that communicates thinking and acting simultaneously**

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

-  **Flexibility** **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

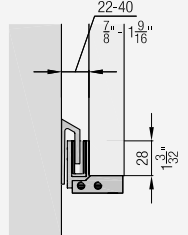
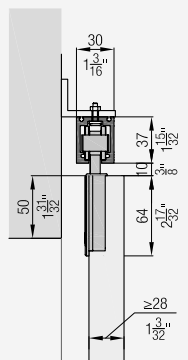
-  max. 60/100/140 kg
-  max. 3200 mm
-  min. 400 mm
-  28–60 mm

## Good to know (accessories)

– Bolts

## Installation examples

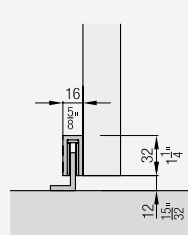
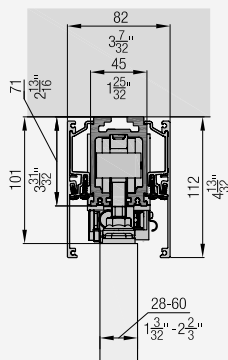
Hawa Frontslide 60 B



### Product range

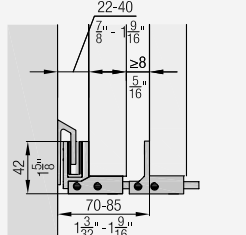
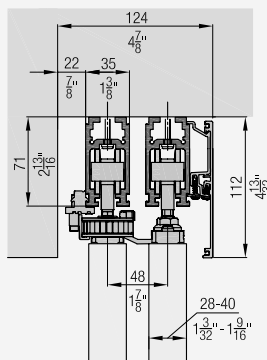
Hawa Frontslide 60 B

Hawa Frontslide 140 matic



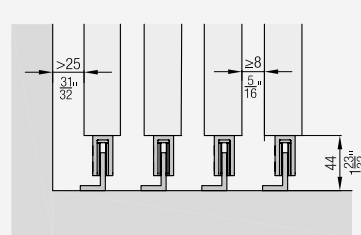
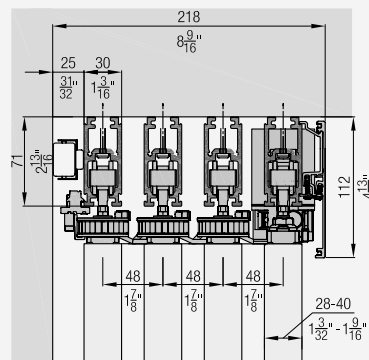
Hawa Frontslide 60 matic Symmetric  
Hawa Frontslide 100 matic Symmetric  
Hawa Frontslide 140 matic Symmetric

Hawa Frontslide 100 A Telescopic 2



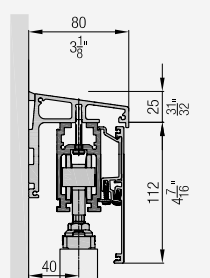
Hawa Frontslide 60 A Telescopic 2, Symmetric 2+2  
Hawa Frontslide 100 A Telescopic 2, Symmetric 2+2  
Hawa Frontslide 140 A Telescopic 2

Hawa Frontslide 60 matic Telescopic 4

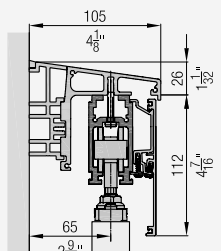


Hawa Frontslide 60 matic Telescopic 3,4  
Hawa Frontslide 100 matic Telescopic 3,4

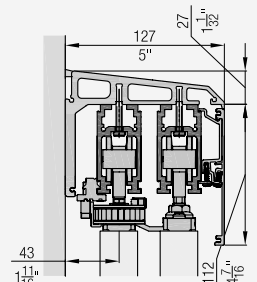
## Fastening



Hawa Frontslide 60 A/matic



Hawa Frontslide 60 A/matic







Hawa Frontslide 60 A/matic

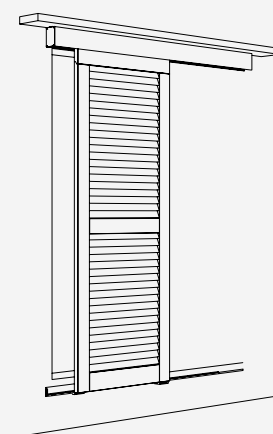
Fitting for top-running wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting. Optionally with angled profile for wall mounting.

### Product highlights

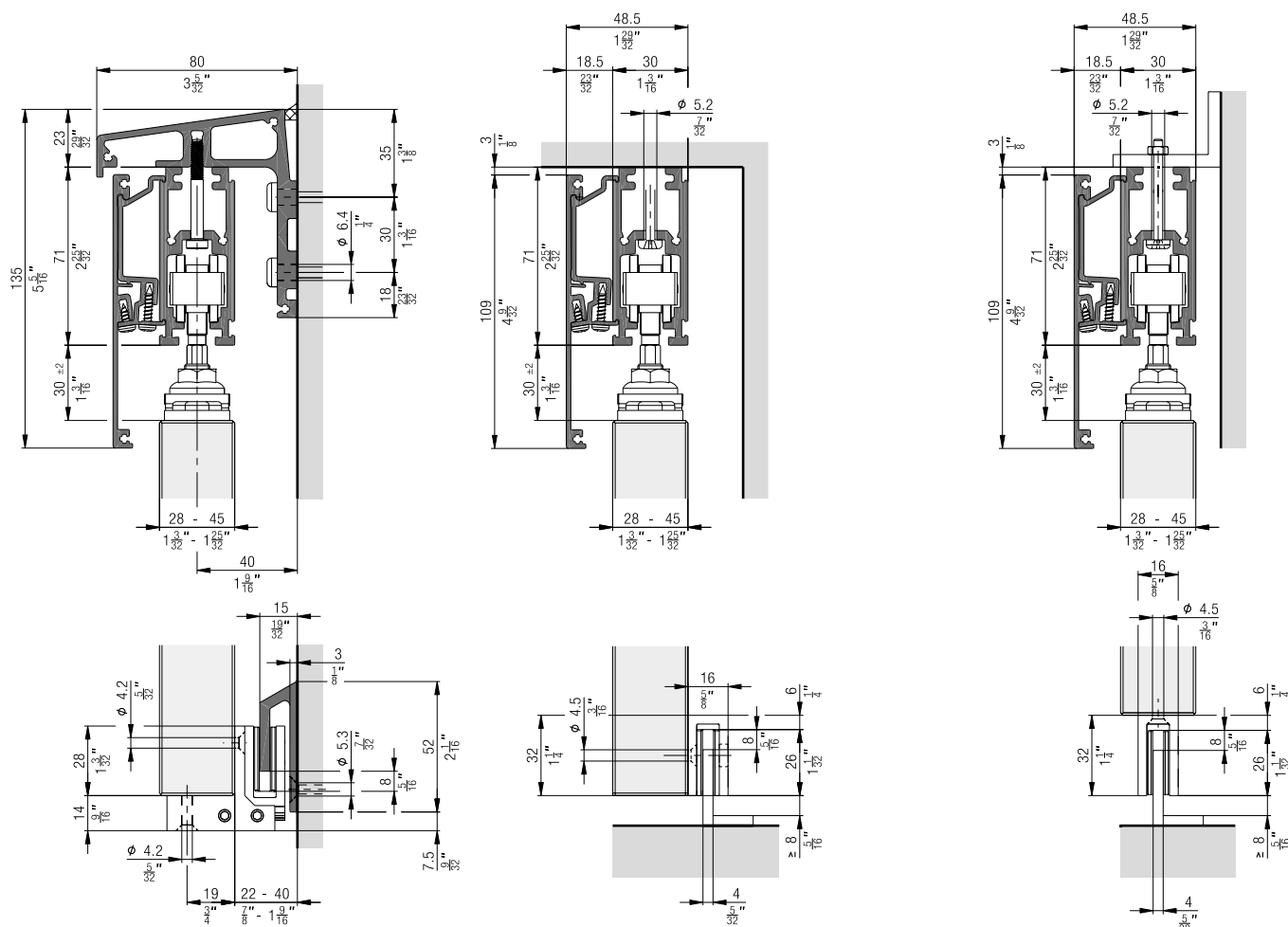
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	60 kg (132 lbs.)
	Max.	3200 mm (10' 5 31/32")
		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")



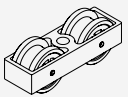
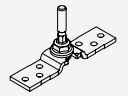
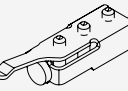
### Installation examples



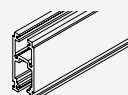
**Set for 1 sliding shutter up to 60 kg (132 lbs.)**

	No.
Hawa Frontslide 60 A, for 1 sliding shutter	25117

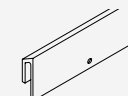
**Set consisting of:**

		25117	No.
	Two-wheeled running gear, M8, plastic wheels	2	17119
	Top fixing plate, with suspension bolt M8, stainless steel	2	24562
	Track stop, with adjustable retainer	2	17027

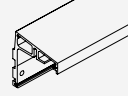
**Running tracks**

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


**Guide tracks**

		mm (inch)	No.
	Guide track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32")	24460
		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, aluminum, pre-drilled	6000 (19' 8 7/32")	21380
		cut to size	21381

**Connecting pins for running tracks and angled profiles**

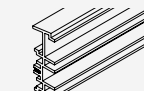
	No.
	Connecting bolts, 6-piece set
	17221

**Mounting screws for angled profiles**

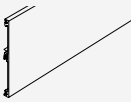
The special mounting screw must be used for optimum attachment of the running track to the angled support profile.

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

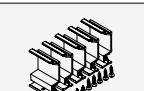
**Spacer profiles**

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

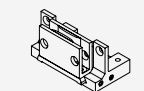
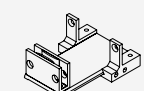
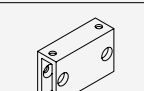
**Panels**

		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.
	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16"), 5-piece set
	24767

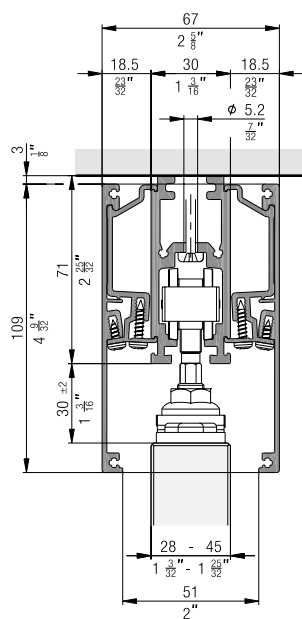
**Guides**

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

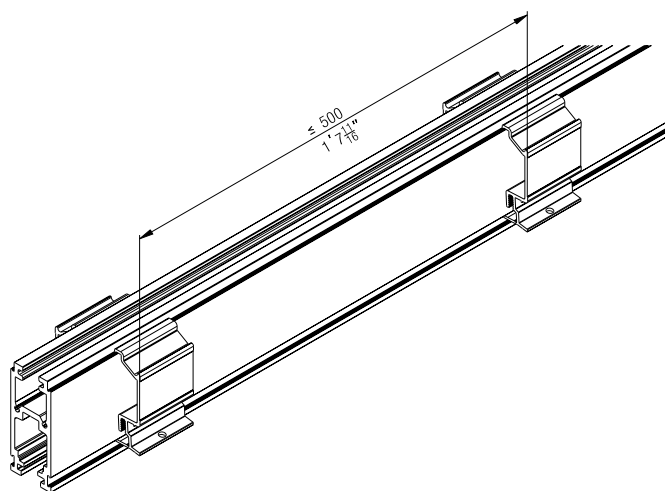
## Accessories

		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

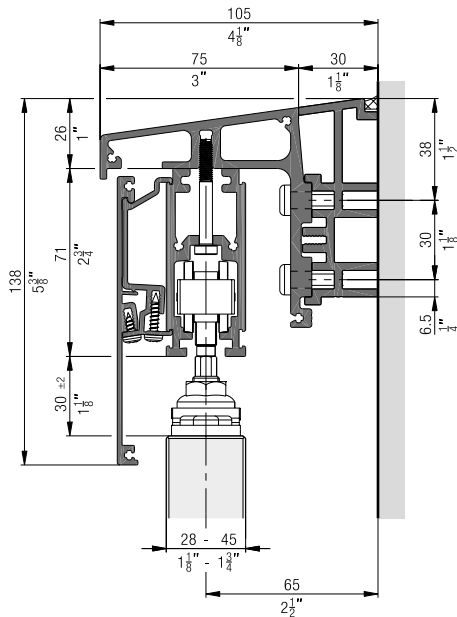
## Architrave mounting



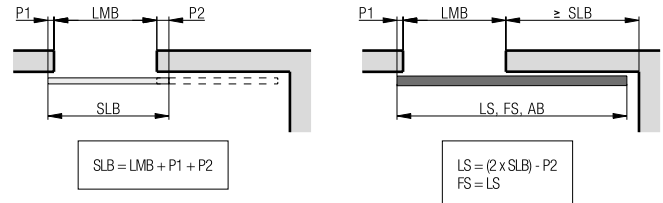
## Panel attachment component installation



### Wall mounting with spacer profile (weatherboard)



### Sliding shutter width calculations

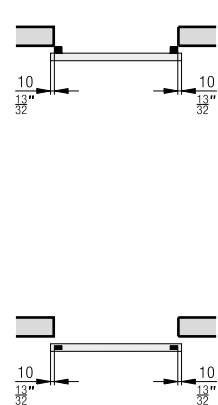
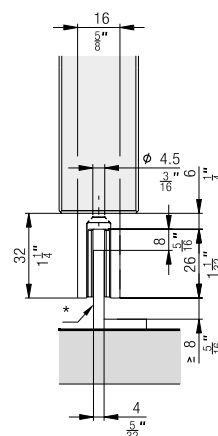
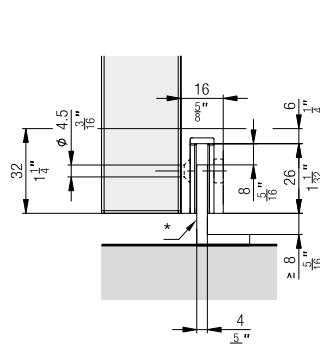
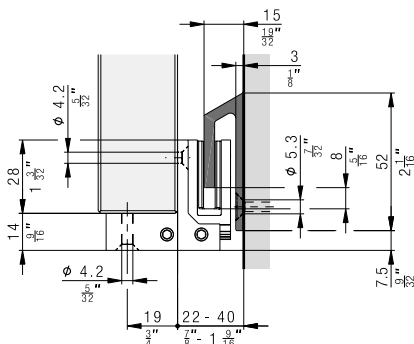


AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track

### 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
- Wind resistance class overview from page 198

Further information about the product can be found on [www.hawa.com](http://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.**

## Product highlights



## Aesthetics

Attractive design solution for exciting and modern façade design

- **Security**

The shutters withstand even stormy winds,  
both open and closed

## Technical specifications



Max. 60 kg (132 lbs.)



Max. 3200 mm (10' 5 31/32")

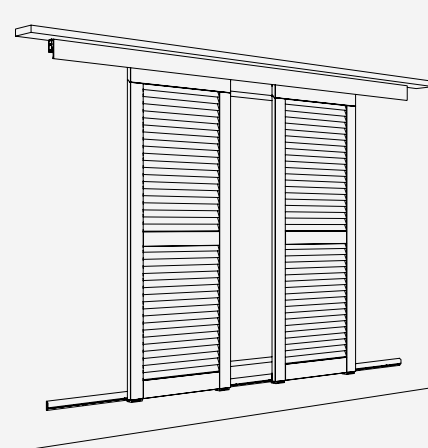


500–1500 mm (1' 7 11/16" to 4' 11 1/16")

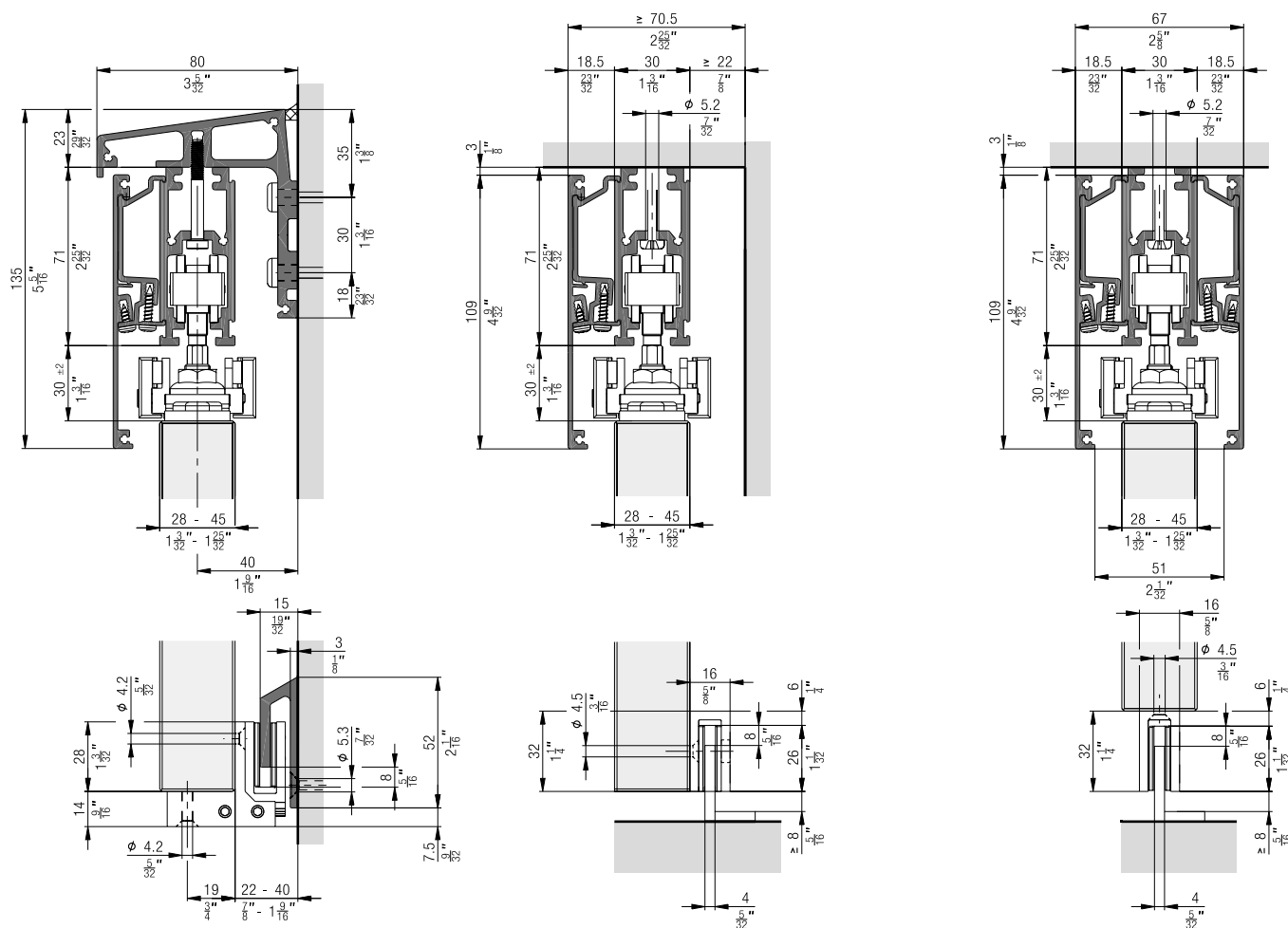
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–45 mm (1 3/32" to 1 25/32")



## Installation examples

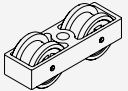
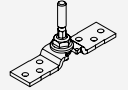
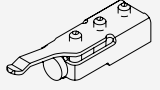

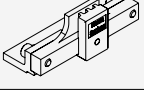
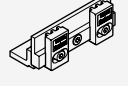





**Set for 2 sliding shutters up to 60 kg (132 lbs.)**

	No.
Hawa Frontslide 60 A Symmetric 2, for 2 sliding shutters	25118

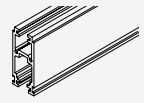
**Set consisting of:**

		25118	No.
	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

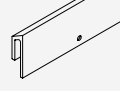
**Toothed belt**
**Toothed belt length calculation: 2 x system width**

		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

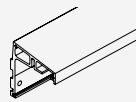
**Running tracks**

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


**Guide tracks**

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

**Angled profile for 2 sliding levels**


		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, aluminum, pre-drilled	6000 (19' 8 7/32")	21380
		cut to size	21381

**Connecting pins for running tracks and angled profiles**

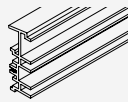
		No.
	Connecting bolts, 6-piece set	17221

**Mounting screws for angled profiles**

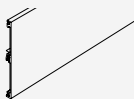
**The special mounting screw must be used for optimum attachment of the running track to the angled support profile.**

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


**Spacer profiles**

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

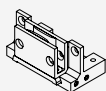
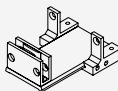

## Panels

		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.
	24767

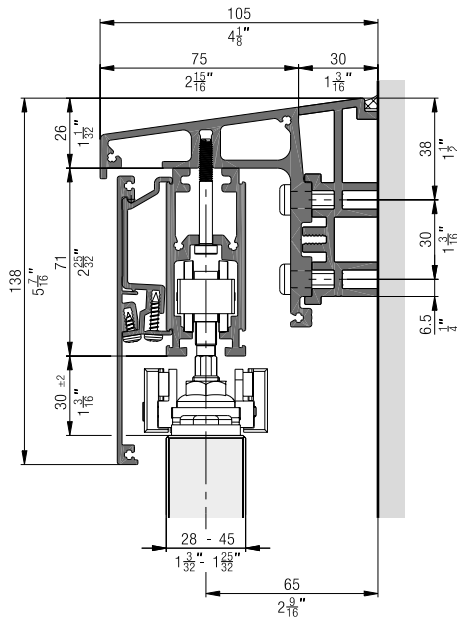
## Guides

	No.
	24543
	24544
	24542

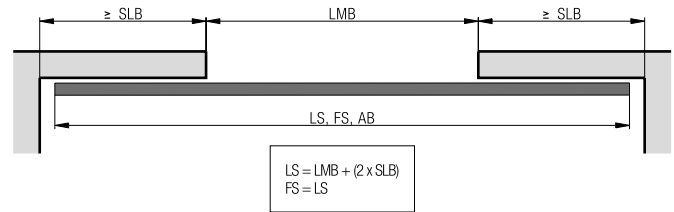
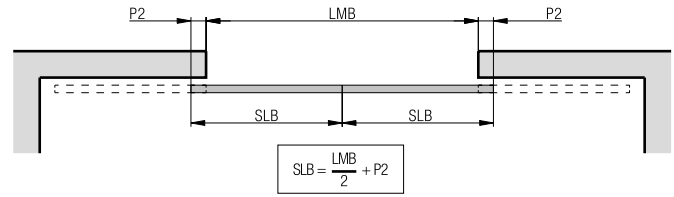
## Accessories

		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

### Wall mounting with spacer profile (weatherboard)

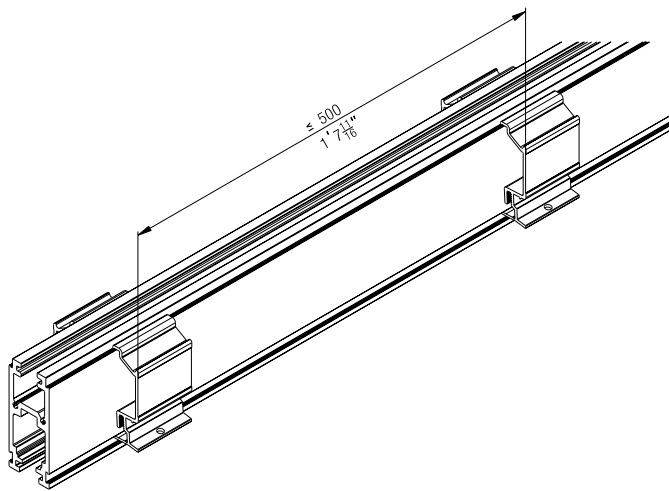


### Sliding shutter width calculations

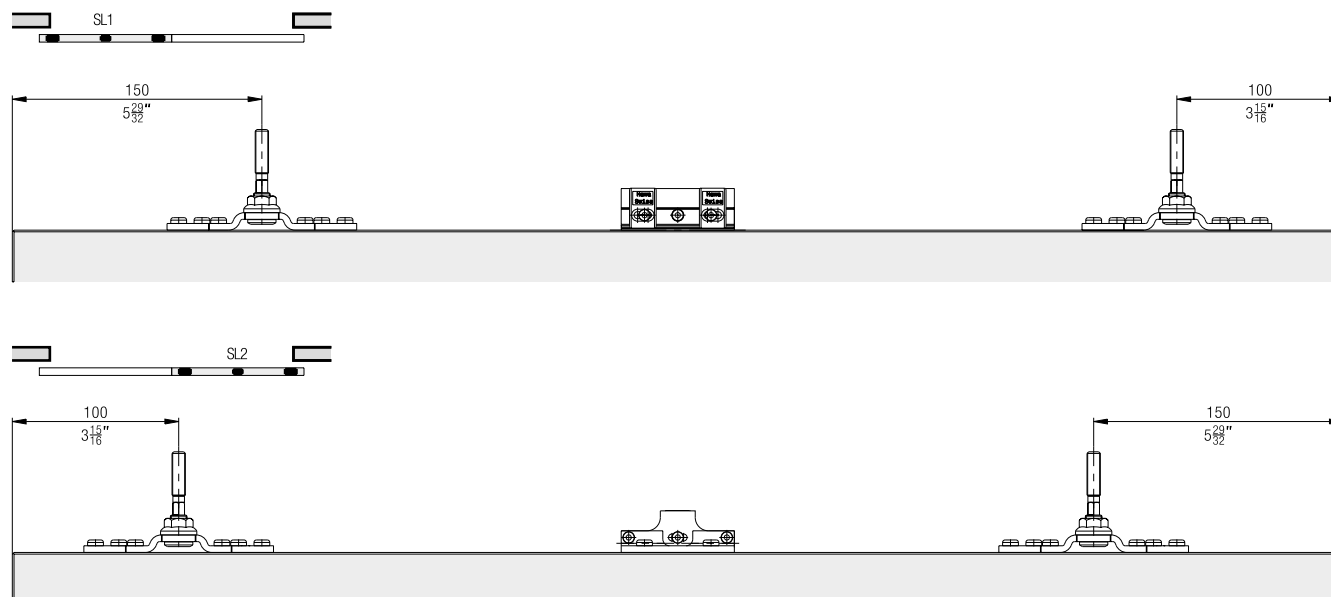


AB = System width  
 LMB = Inside clearance  
 AL = Number of sliding shutters  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

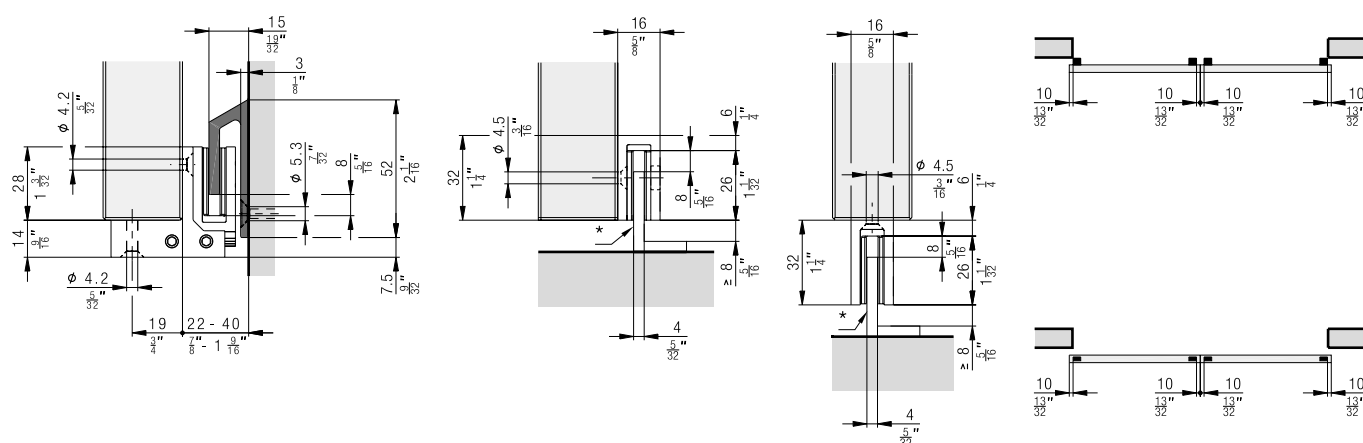
### Panel attachment component installation



## 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](http://www.hawa.com).

## 60 A Symmetric 2+2

**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.**

## Product highlights



## Aesthetics

Attractive design solution for exciting and modern façade design

## Security

The shutters withstand even stormy winds,  
both open and closed

## Technical specifications



Max. 40 kg (88 lbs.)



Max. 3200 mm (10' 5 31/32")

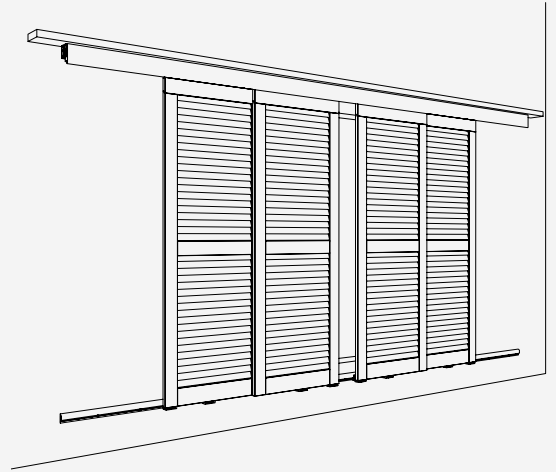


550–1000 mm (1' 9 21/32" to 3' 3 3/8")

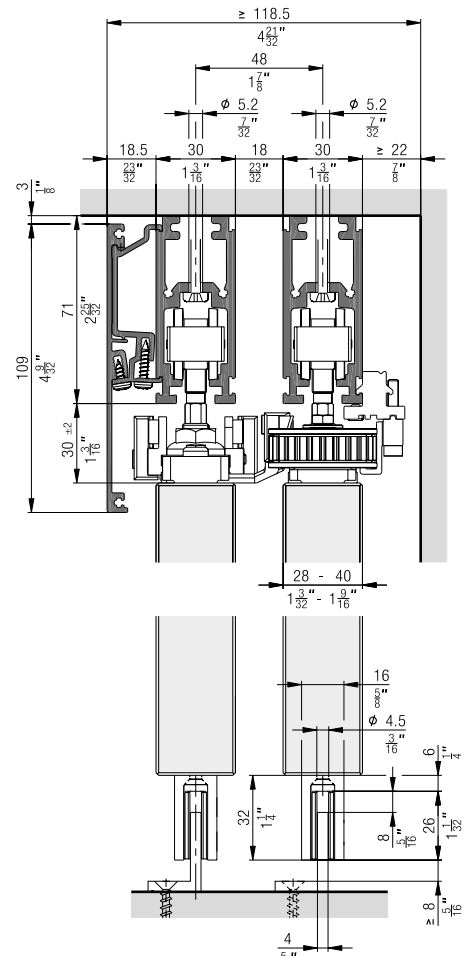
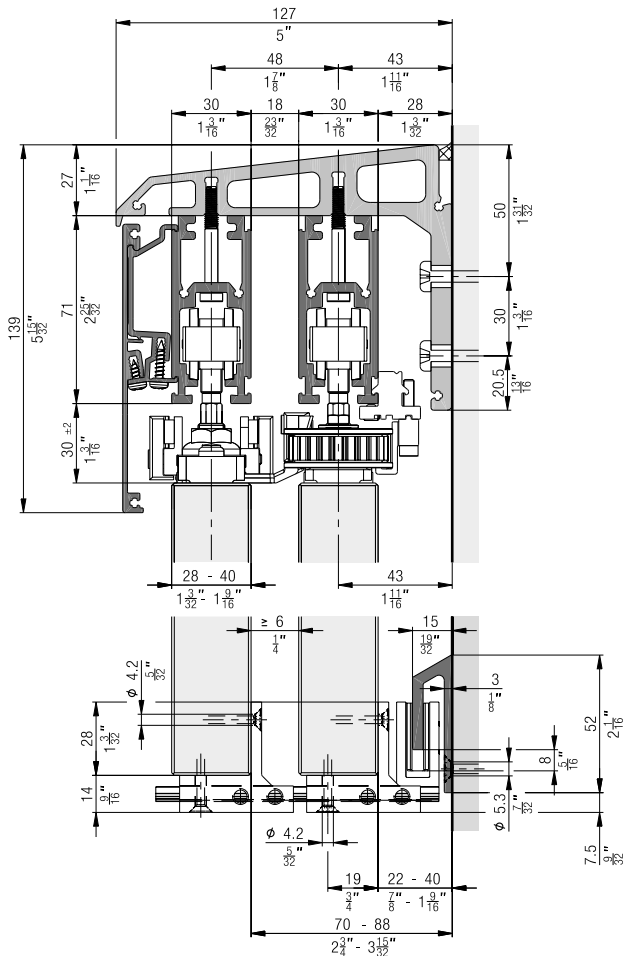
(Max. shutter area 3.2 m<sup>2</sup> (34 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



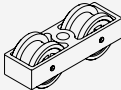
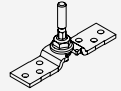
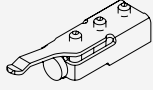

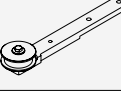

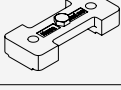

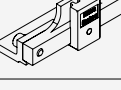
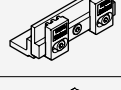


## Installation examples




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

	No.
Hawa Frontslide 60 A Symmetric, for 2 sliding shutters	25119

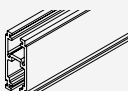
**Set consisting of:**

		25119	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	3	17027
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
	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

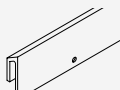
**Toothed belt**
**Toothed belt length calculation: 2 x system width**

	No.
 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

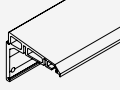
**Running tracks**

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


**Guide tracks**

		mm (inch)	No.
	Guide track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32")	24460
		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 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**

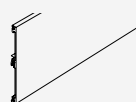
	No.
 Connecting bolts, 6-piece set	17221

**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

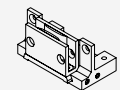
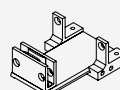
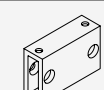
**Panels**

		mm (inch)	No.
	Cover panel, aluminum, anodized	3500 (11' 5 25/32")	24845
		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.
	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16"), 5-piece set	24767

**Guides**

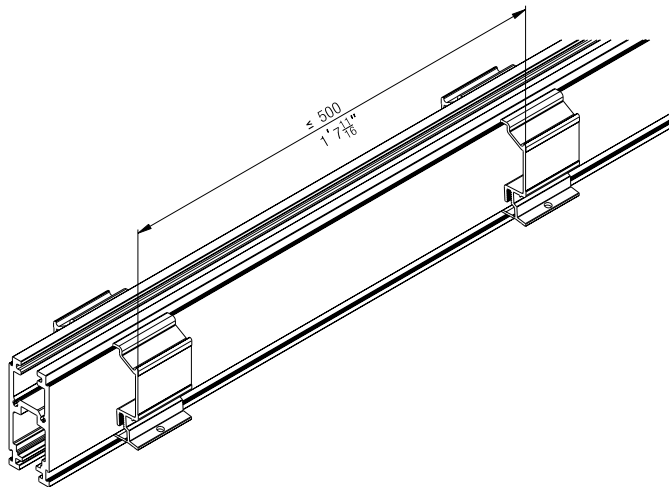
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
	Guide slider, for screw fixing	24542

**Accessories**

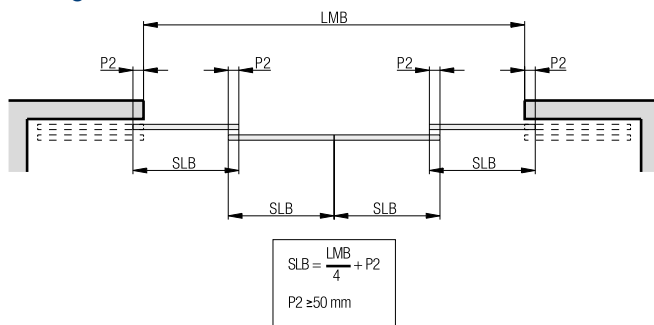
		No.
	Front cover plates for two sliding levels, wall fitting, aluminum, anodized, 1 pair	24821
	Front cover plates for two sliding levels, wall fitting, aluminum, 1 pair	24824



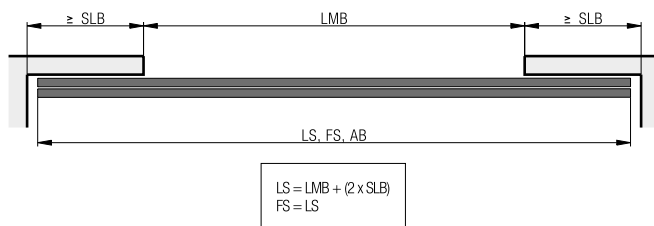
### Panel attachment component installation



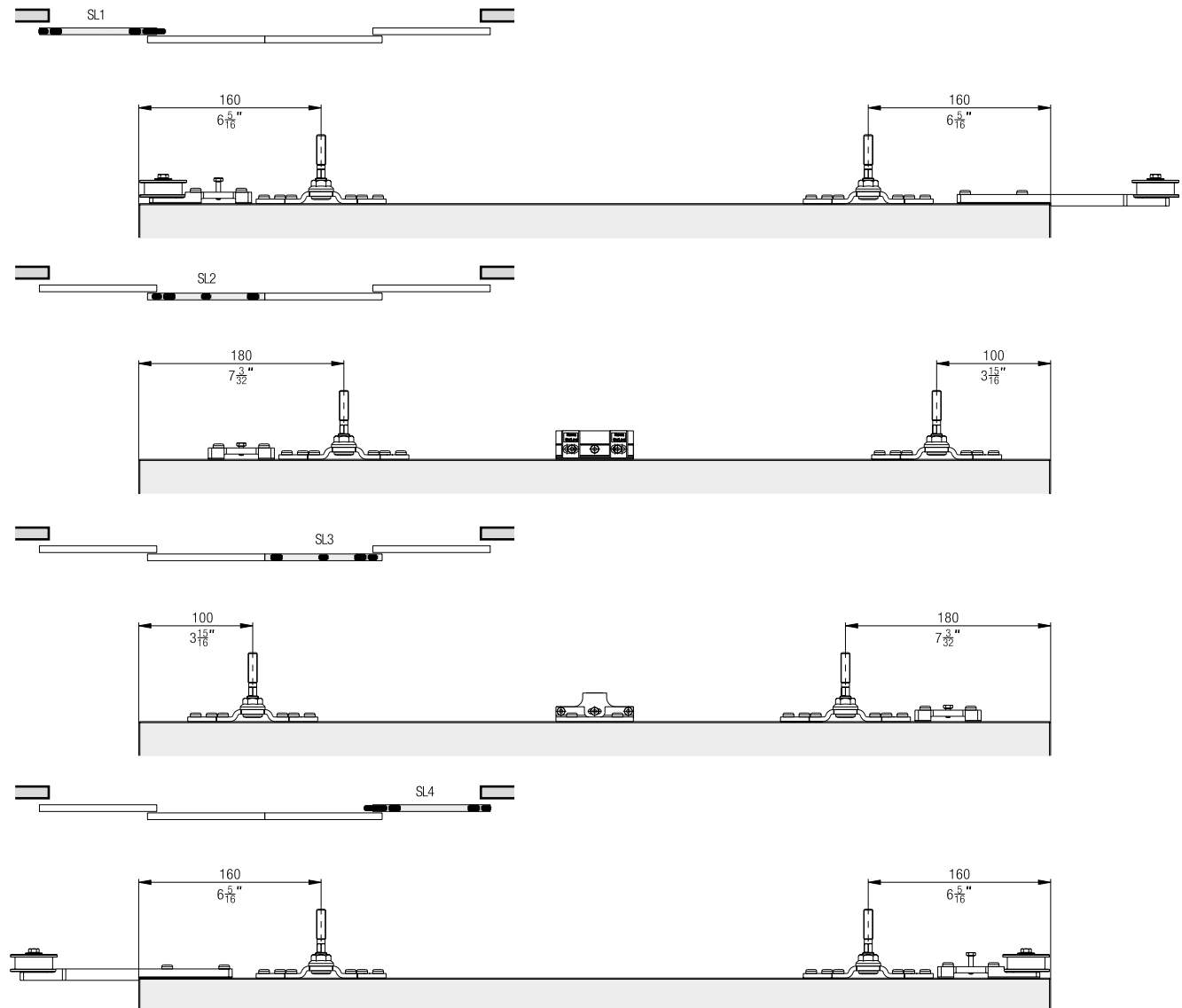
### Sliding shutter width calculations



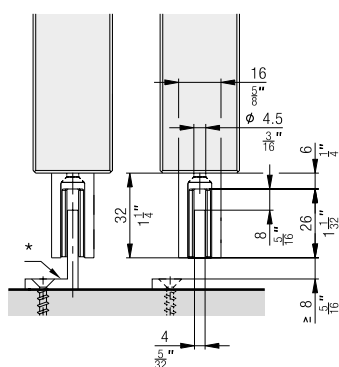
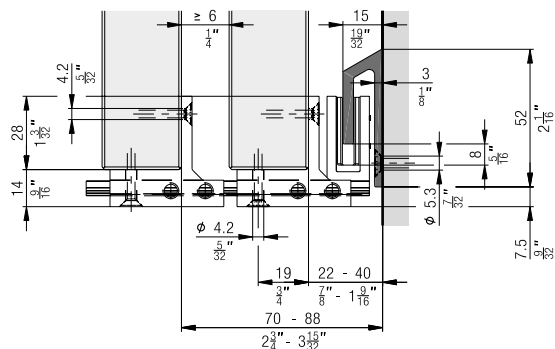
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track



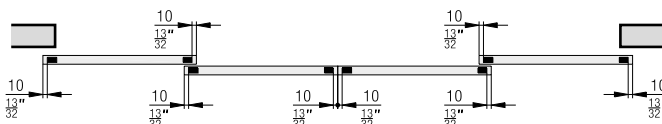
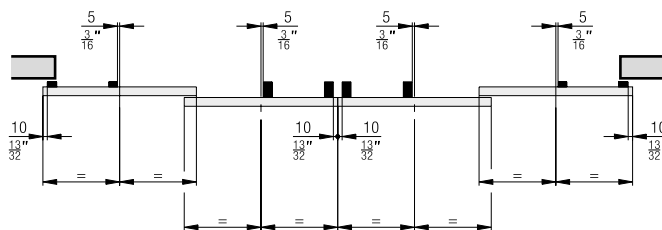
## Suspension points



## 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](http://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



## Aesthetics

Attractive design solution for exciting and modern façade design

## Security

The shutters withstand even stormy winds,  
both open and closed

## Technical specifications



Max. 60 kg (132 lbs.)



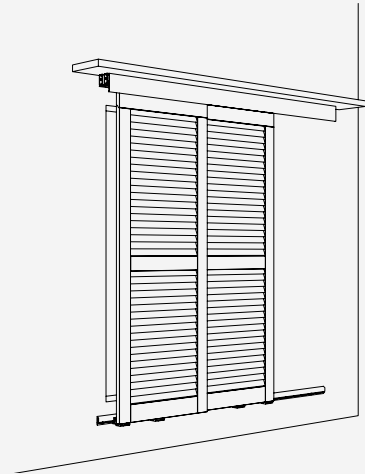
Max. 3200 mm (10' 5 31/32")

550–1200 mm (1' 9 21/32" to 3' 11 1/4")

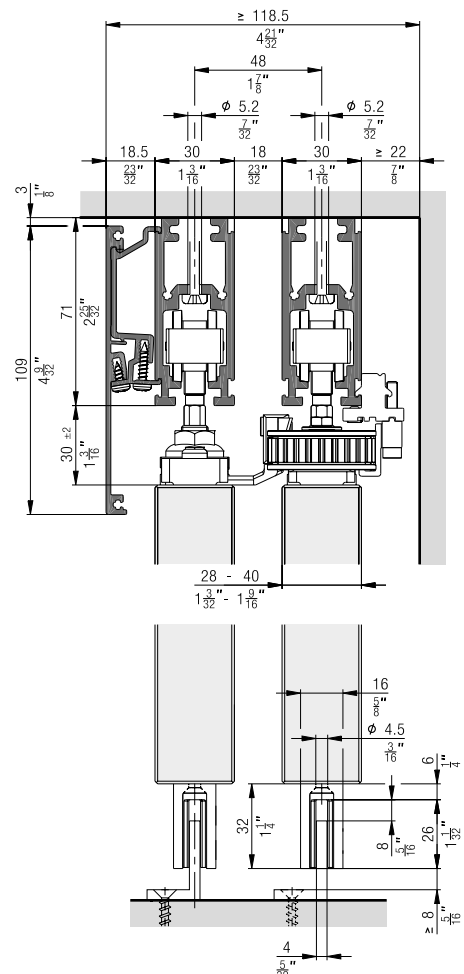
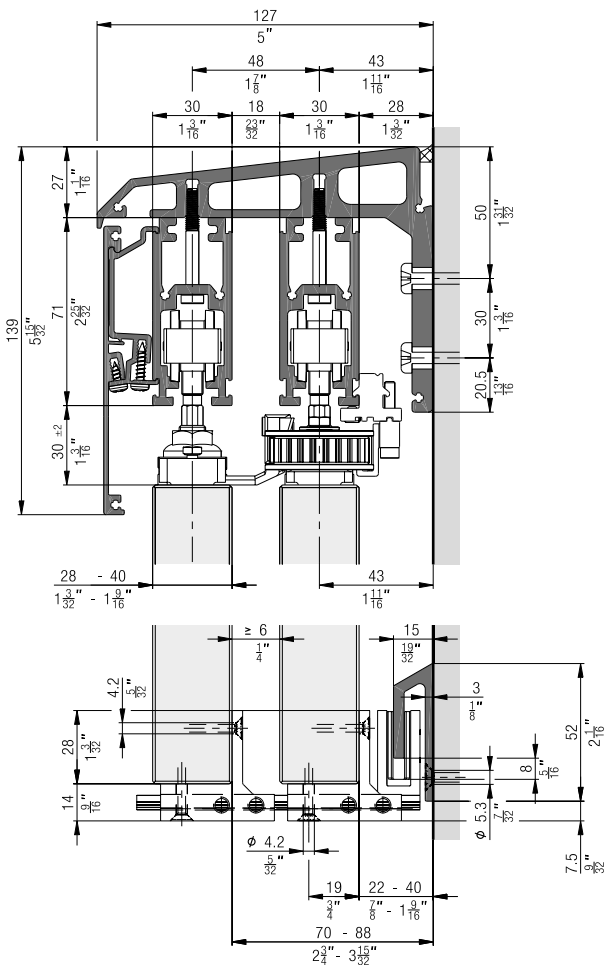
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



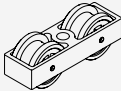
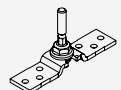
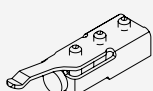
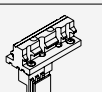
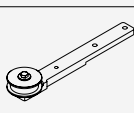
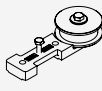

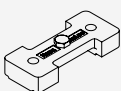
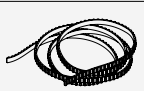
## Installation examples



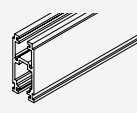
**Set for 2 sliding shutters up to 60 kg (132 lbs.)**

	No.
Hawa Frontslide 60 A Telescopic, for 2 sliding shutters	25120

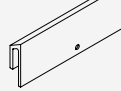
**Set consisting of:**

		25120	No.
	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	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

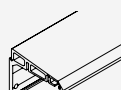
**Running tracks**

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


**Guide tracks**

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

**Angled profile for 2 sliding levels**

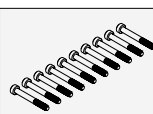
		mm (inch)	No.
	Angled profile for two sliding level, aluminum, anodized, pre-drilled	6000 (19' 8 7/32")	21384
		cut to size	21385
	Angled profile for two sliding level, aluminum, pre-drilled	6000 (19' 8 7/32")	21386
		cut to size	21387

**Connecting pins for running tracks and angled profiles**

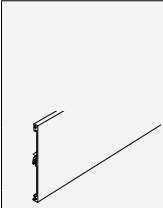
		No.
	Connecting bolts, 6-piece set	17221

**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
		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.
	24767

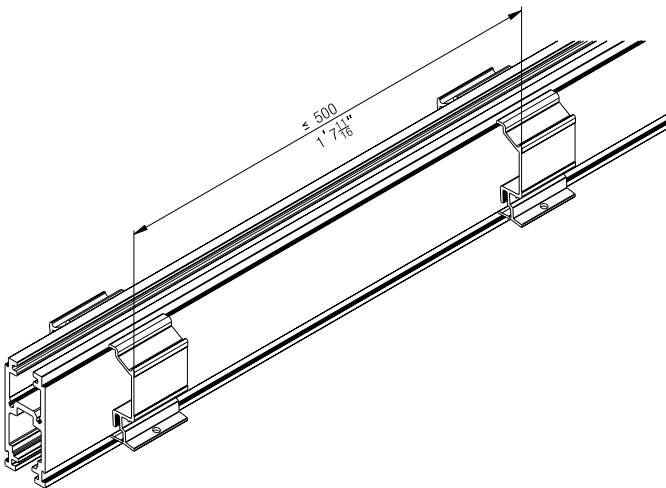
### Guides

	No.
	24543
	24544
	24542

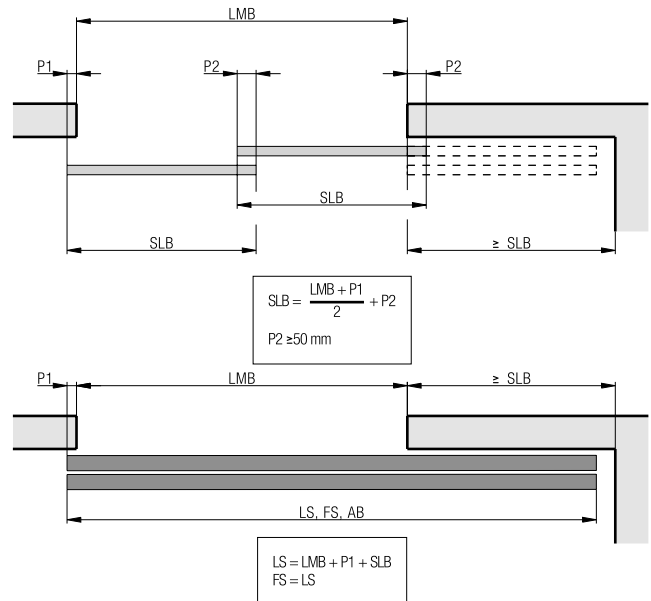
### Accessories

	No.
	24821
	24824

### Panel attachment component installation

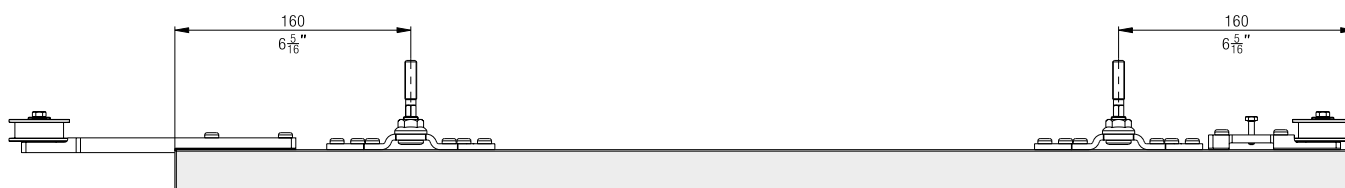


### Sliding shutter width calculations

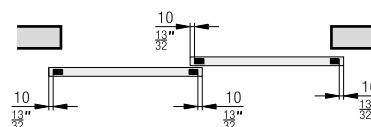
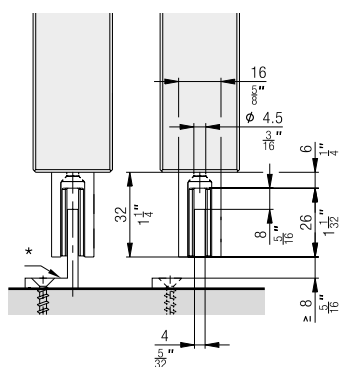
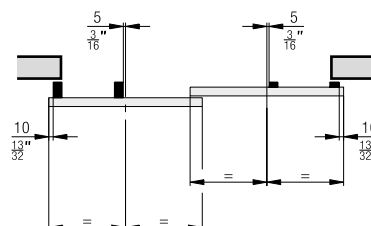
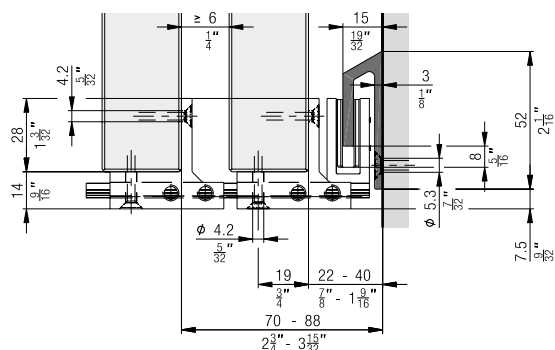


AB = System width  
 LMB = Inside clearance  
 AL = Number of sliding shutters  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

## 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](http://www.hawa.com).



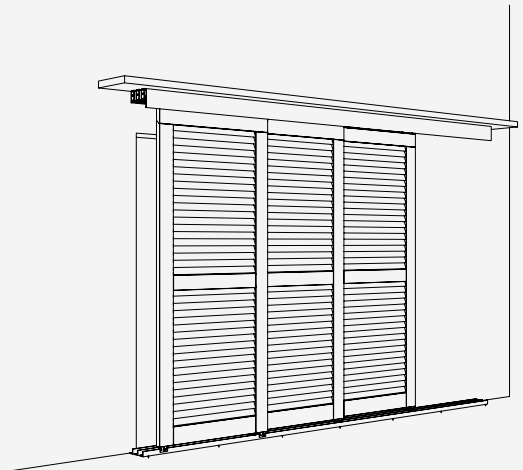
**Fitting for 3 wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

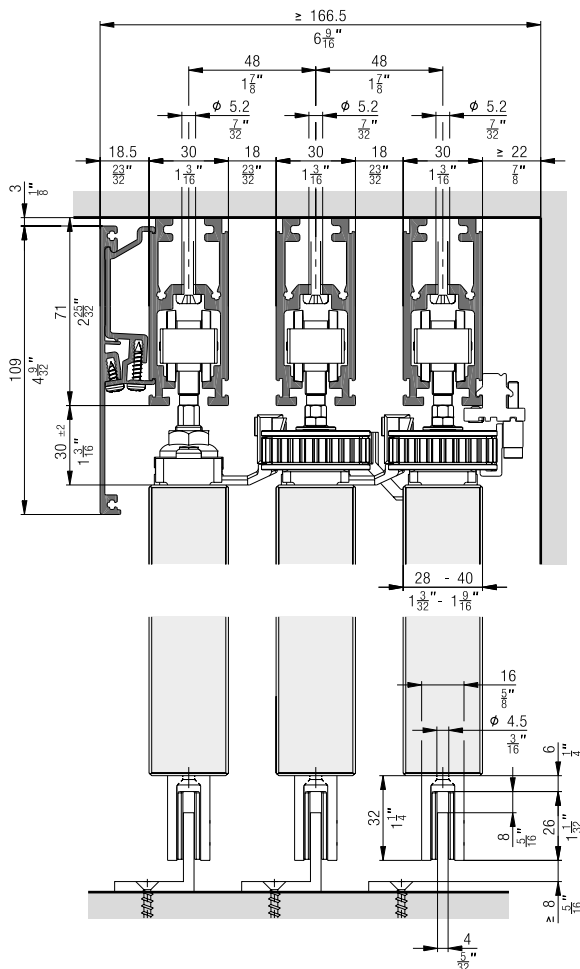
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	60 kg (132 lbs.)
	Max.	3200 mm (10' 5 31/32")
		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")



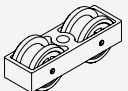
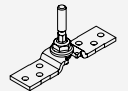
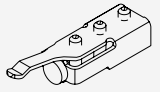
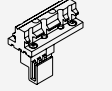
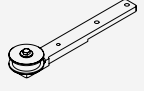
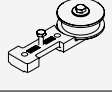


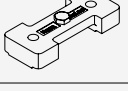

### Installation examples



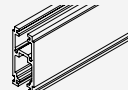
**Set for 3 sliding shutters up to 60 kg (132 lbs.)**

	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
	Top fixing plate, with suspension bolt M8, stainless steel	6	24562
	Track stop, with adjustable retainer	2	17027
	Clamp for toothed belt	1	24777
	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
	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.
	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.
	Connecting bolts, 6-piece set	17221

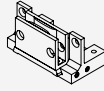
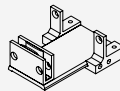

**Panels**

		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

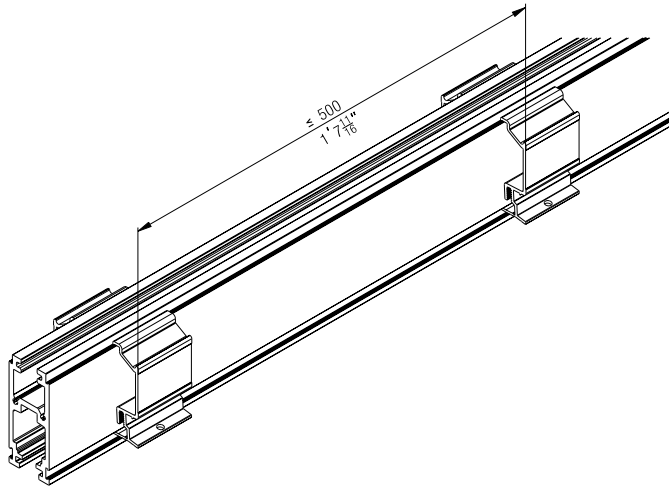
**Panel attachment components**

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

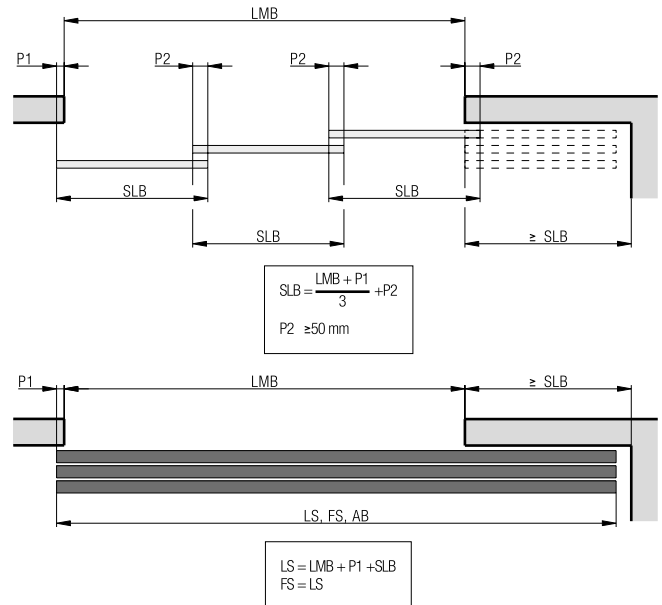
**Guides**

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

### Panel attachment component installation

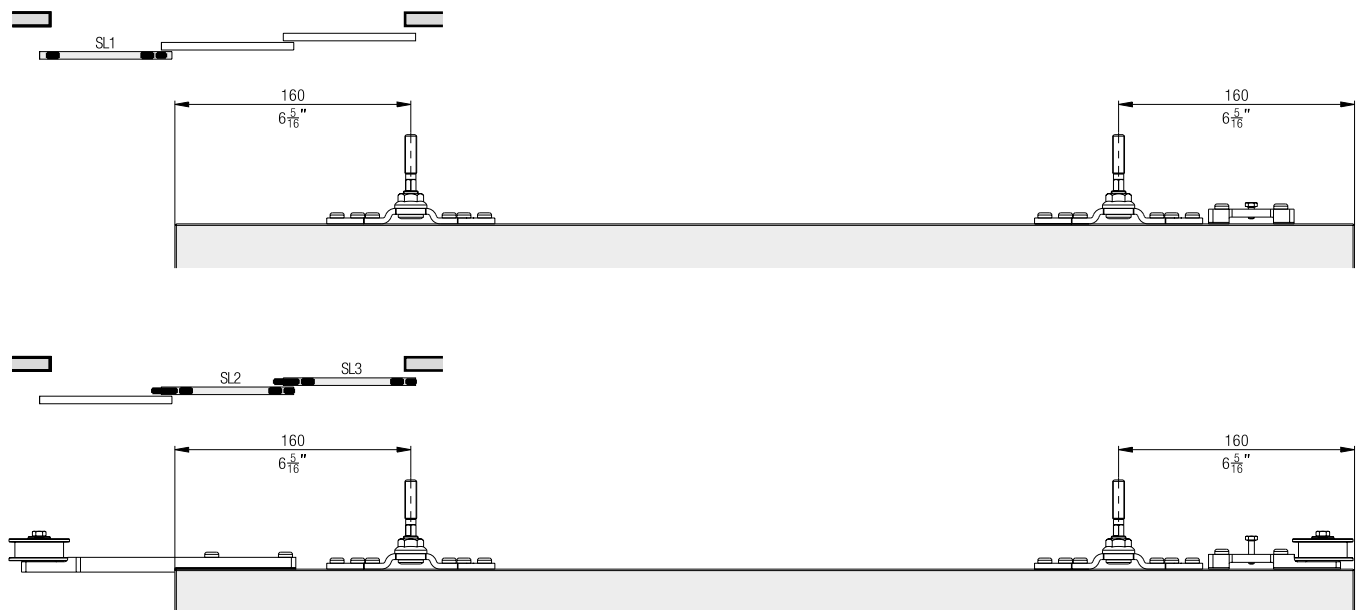


### Sliding shutter width calculations

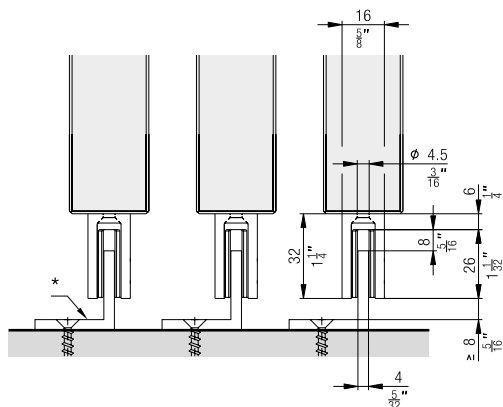


AB = System width  
 LMB = Inside clearance  
 AL = Number of sliding shutters  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

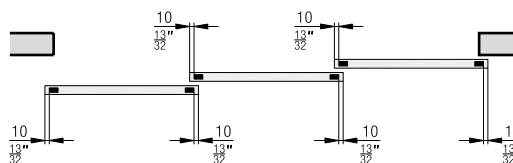
### Suspension points



## 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](http://www.hawa.com).

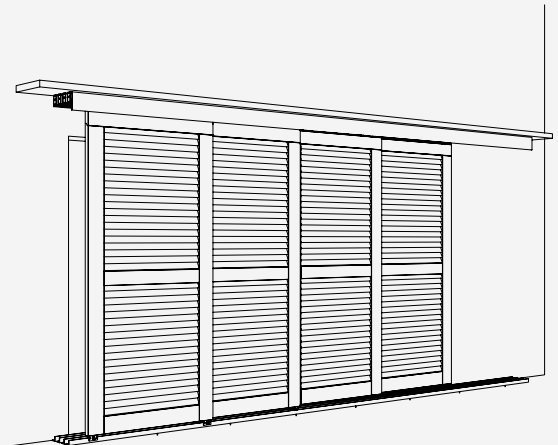
**Fitting for 4 wooden or metal shutters up to 60 kg (132 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

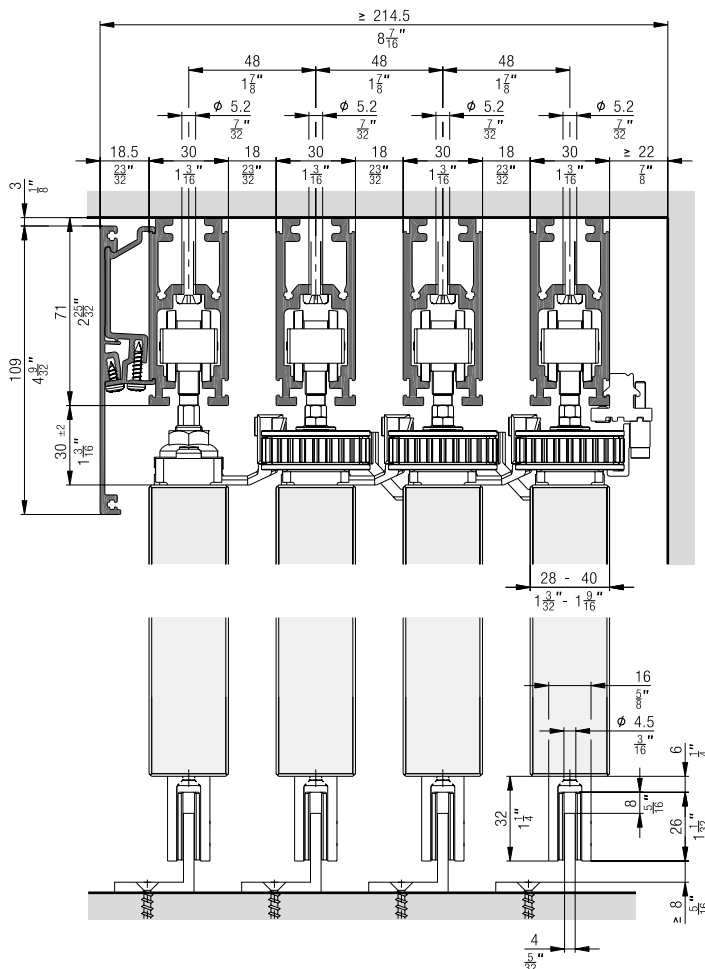
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	60 kg (132 lbs.)
	Max.	3200 mm (10' 5 31/32")
		550–1200 mm (1' 9 21/32" to 3' 11 1/4") (Max. shutter area 3.84 m <sup>2</sup> (41 ft <sup>2</sup> ))
		28–40 mm (1 3/32" to 1 9/16")



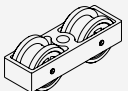
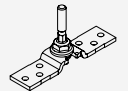
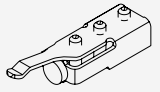
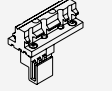
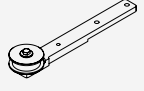
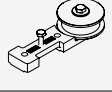


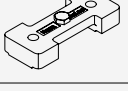

### Installation examples



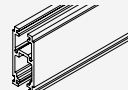
**Set for 4 sliding shutters up to 60 kg (132 lbs.)**

	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
	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
	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.
	Connecting bolts, 6-piece set	17221

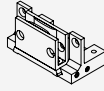
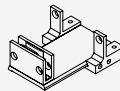

**Panels**

		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

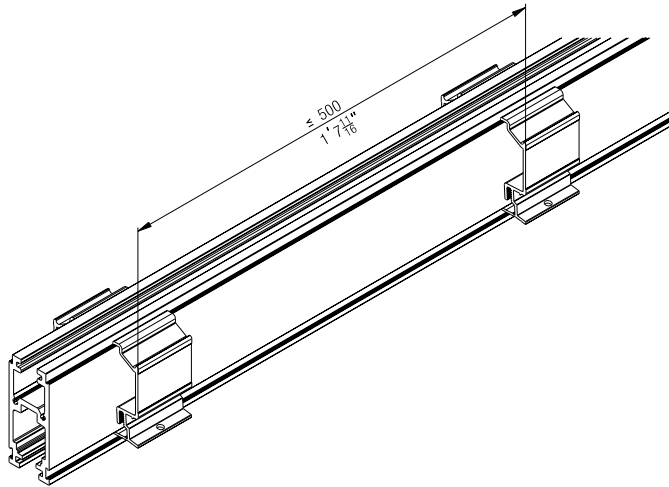
**Panel attachment components**

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

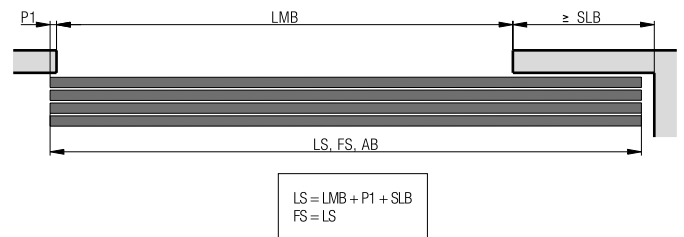
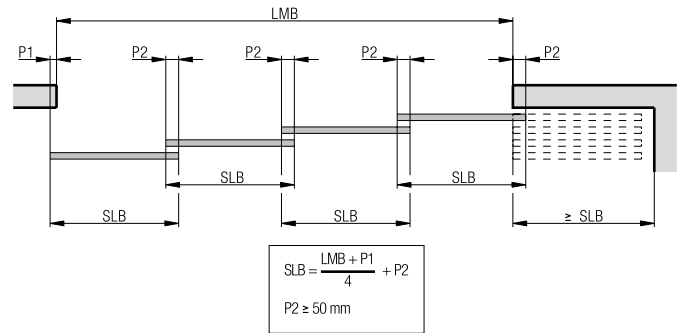
**Guides**

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

### Panel attachment component installation

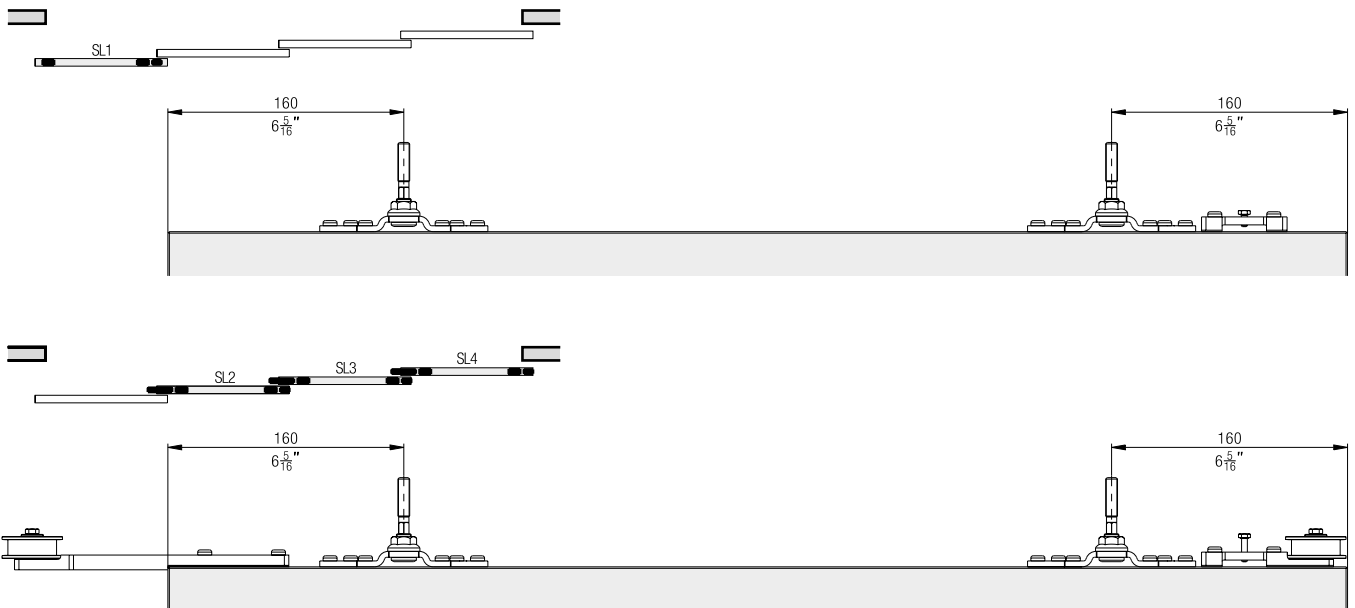


### Sliding shutter width calculations



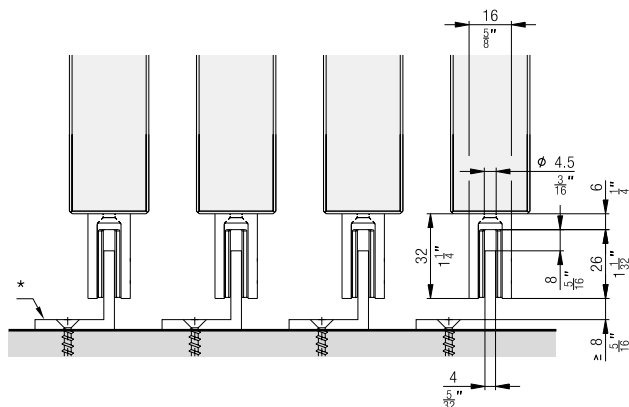
AB = System width  
 LMB = Inside clearance  
 AL = Number of sliding shutters  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### Suspension points

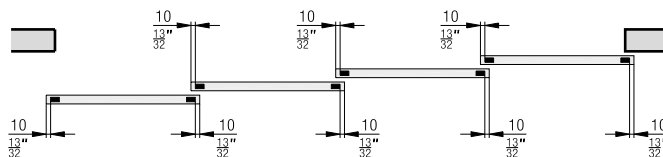




## Guides



\* 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](http://www.hawa.com).

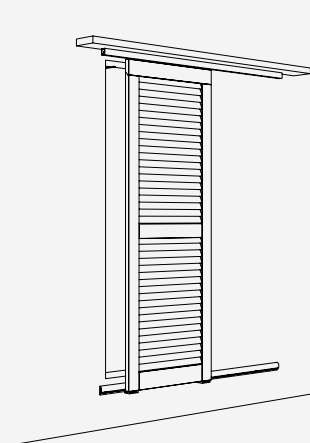
## Fitting for top-running wooden or metal shutters up to 60 kg (132 lbs.), with low running track. Ceiling or architrave mounting.

### Product highlights

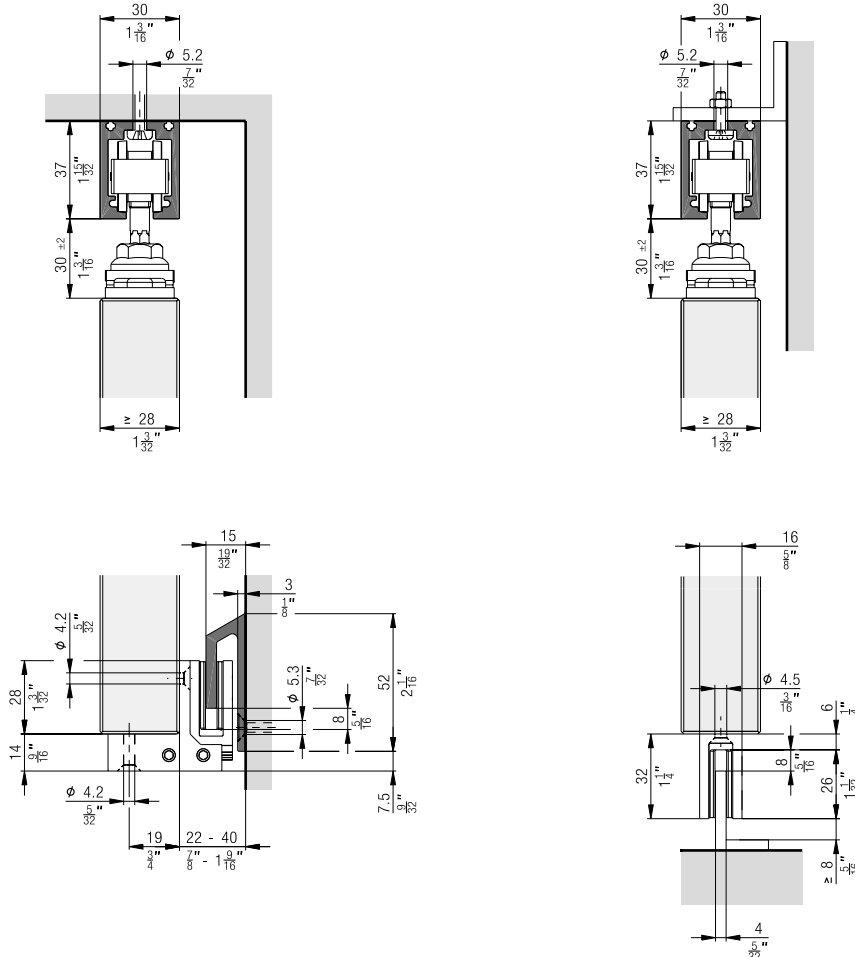
- Aesthetics** Minimal rail height
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	60 kg (132 lbs.)
	Max.	3200 mm (10' 5 31/32")
		400–3750 mm (1' 3 3/4" to 12' 3 5/8") (Max. shutter area 9.6 m² (103 ft²))
		≥28 mm (1 3/32")



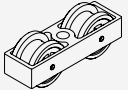
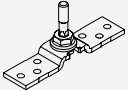
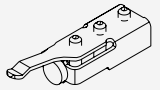
### Installation examples



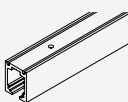
**Set for 1 sliding shutter up to 60 kg (132 lbs.)**

	No.
Hawa Frontslide 60 A, for 1 sliding shutter 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
 Track stop, with adjustable retainer	2	17027

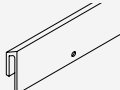
**Running tracks**

	mm (inch)	No.
	2500 (8' 2 7/16")	24842
	6000 (19' 8 7/32")	24802
	cut to size	24803

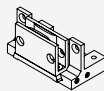
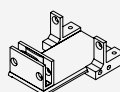

**Connecting pins for running tracks**

	No.
 Connecting bolts, 6-piece set	17221

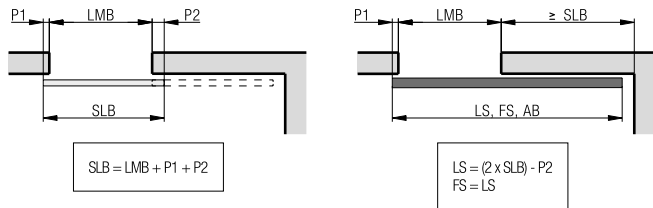
**Guide tracks**

	mm (inch)	No.
	6000 (19' 8 7/32")	24460
	cut to size	24462

**Guides**

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

### Sliding shutter width calculations

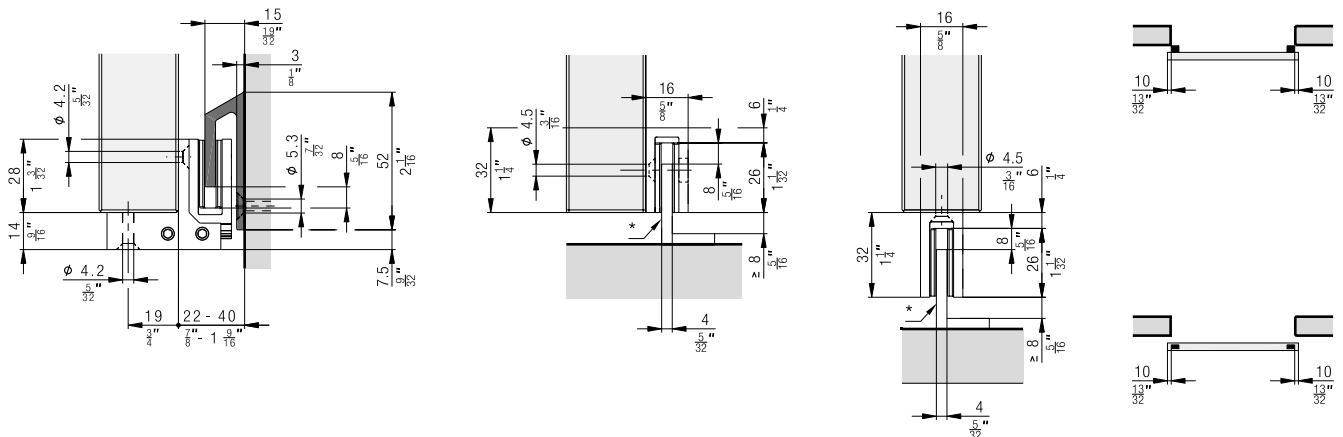


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### Suspension points



### Guides



\* 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](http://www.hawa.com).

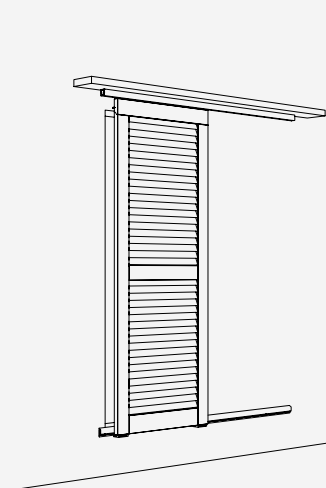
## Fitting for top-running wooden or metal shutters up to 60 kg (132 lbs.). Ceiling or architrave mounting. Minimal installation height.

### Product highlights

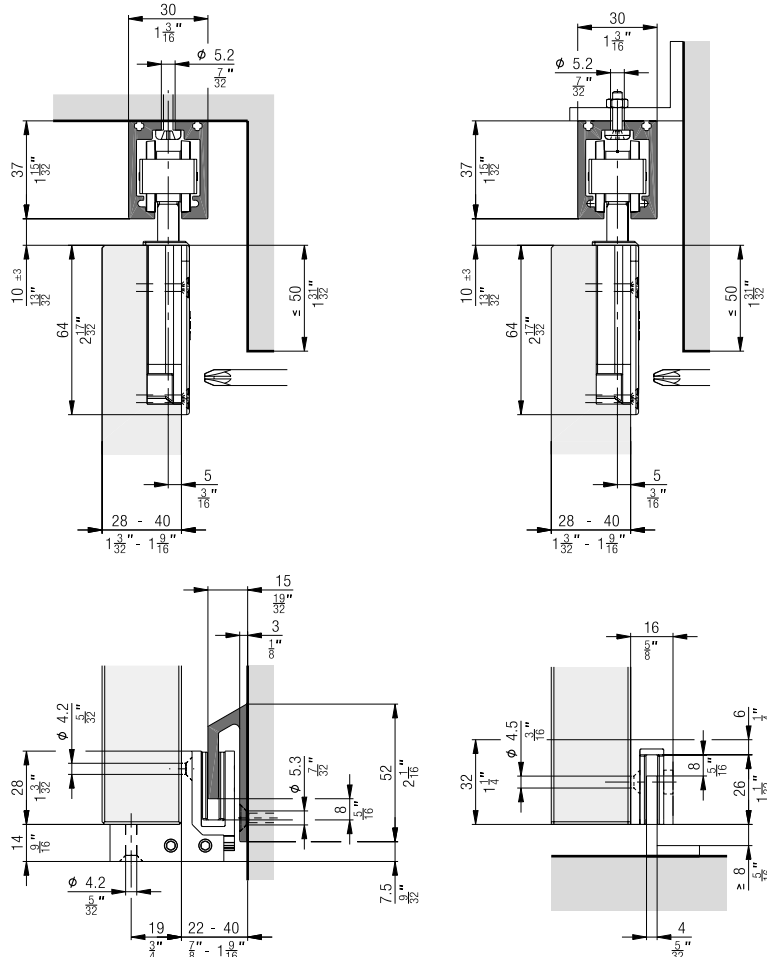
-  **Aesthetics** Minimal gap between shutter and track
-  **Aesthetics** Attractive design solution for exciting and modern façade design

### Technical specifications

-  Max. 60 kg (132 lbs.)
-  Max. 3200 mm (10' 5 31/32")
-  400–3750 mm (1' 3 3/4" to 12' 3 5/8")  
(Max. shutter area 9.6 m<sup>2</sup> (103 ft<sup>2</sup>))
-  28–40 mm (1 3/32" to 1 9/16")



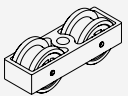

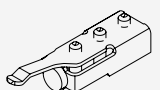
### Installation examples



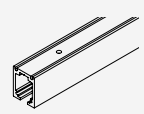
### Set for 1 sliding shutter up to 60 kg (132 lbs.)

	No.
Hawa Frontslide 60 B, for 1 sliding shutter	19871


### Set consisting of:

		19871	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

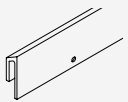
### Running tracks

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

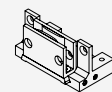
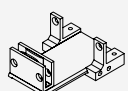
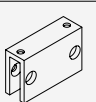
### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221

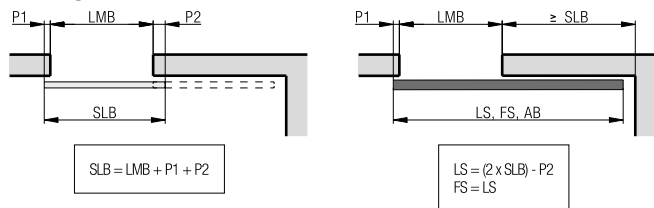
### Guide tracks

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

### Guides

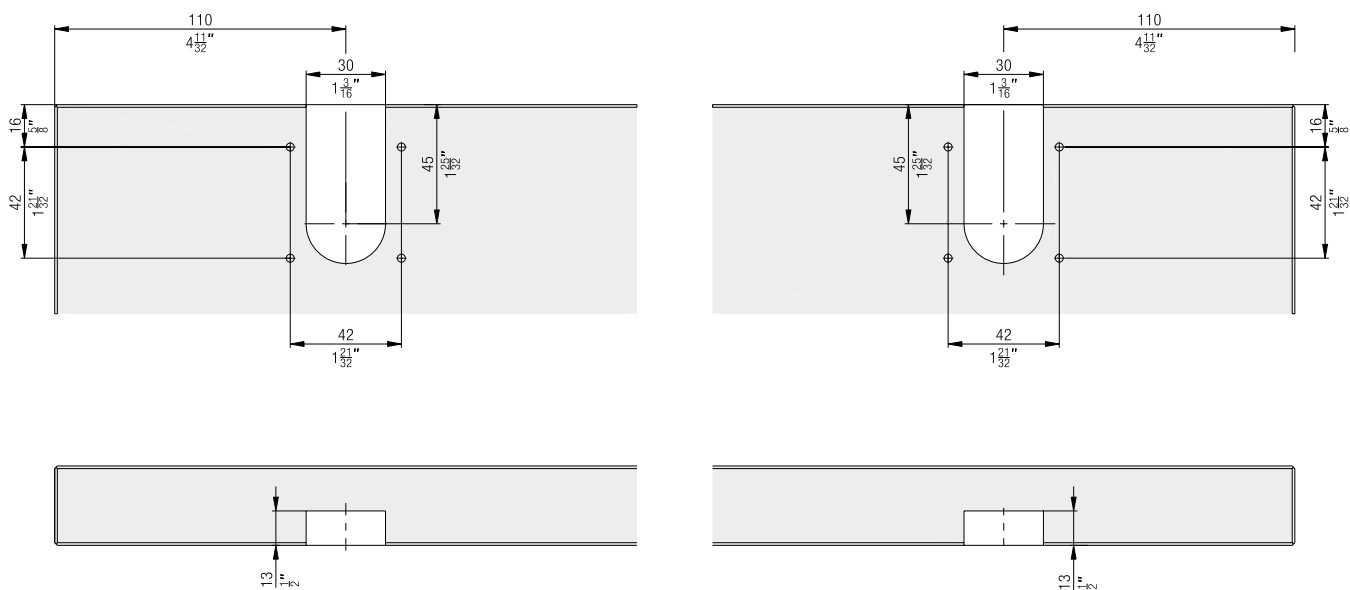
		No.
	Floor guide unit, short, for guide track	24543
	Floor guide unit, long, for guide track	24544
	Guide slider, for screw fixing	24542

### Sliding shutter width calculations

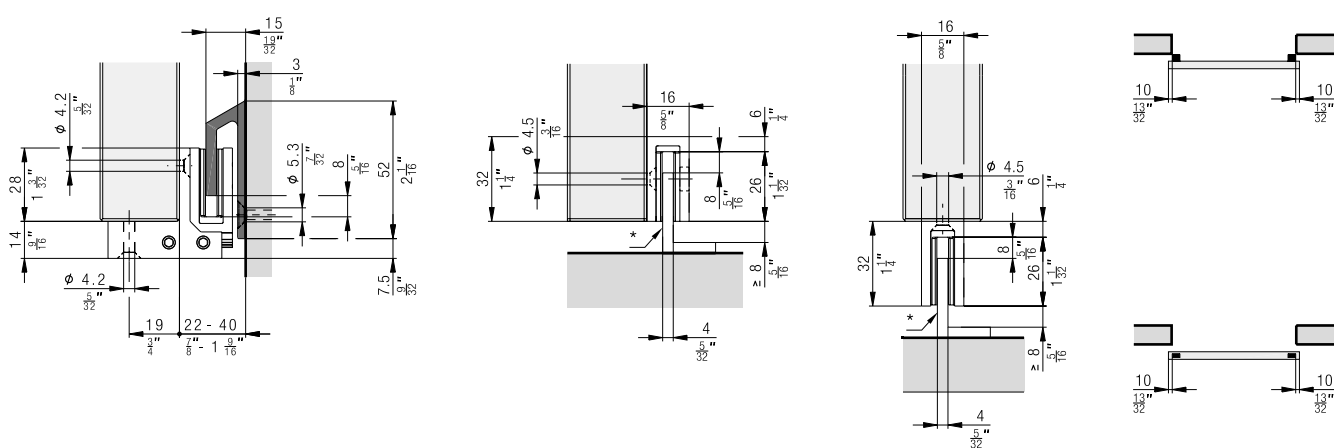


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### Suspension points



### Guides



\* 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](http://www.hawa.com).



**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.**

### Product highlights



#### Comfort

Automated system with building control interface  
Optimized individual use of daylight



#### Security

Extremely robust sliding shutter that has been tested for 100,000 cycles  
High resistance to wind and corrosion

### Technical specifications



Max. 60 kg (132 lbs.)



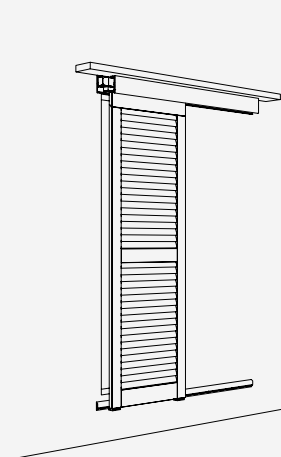
Max. 3200 mm (10' 5 31/32")



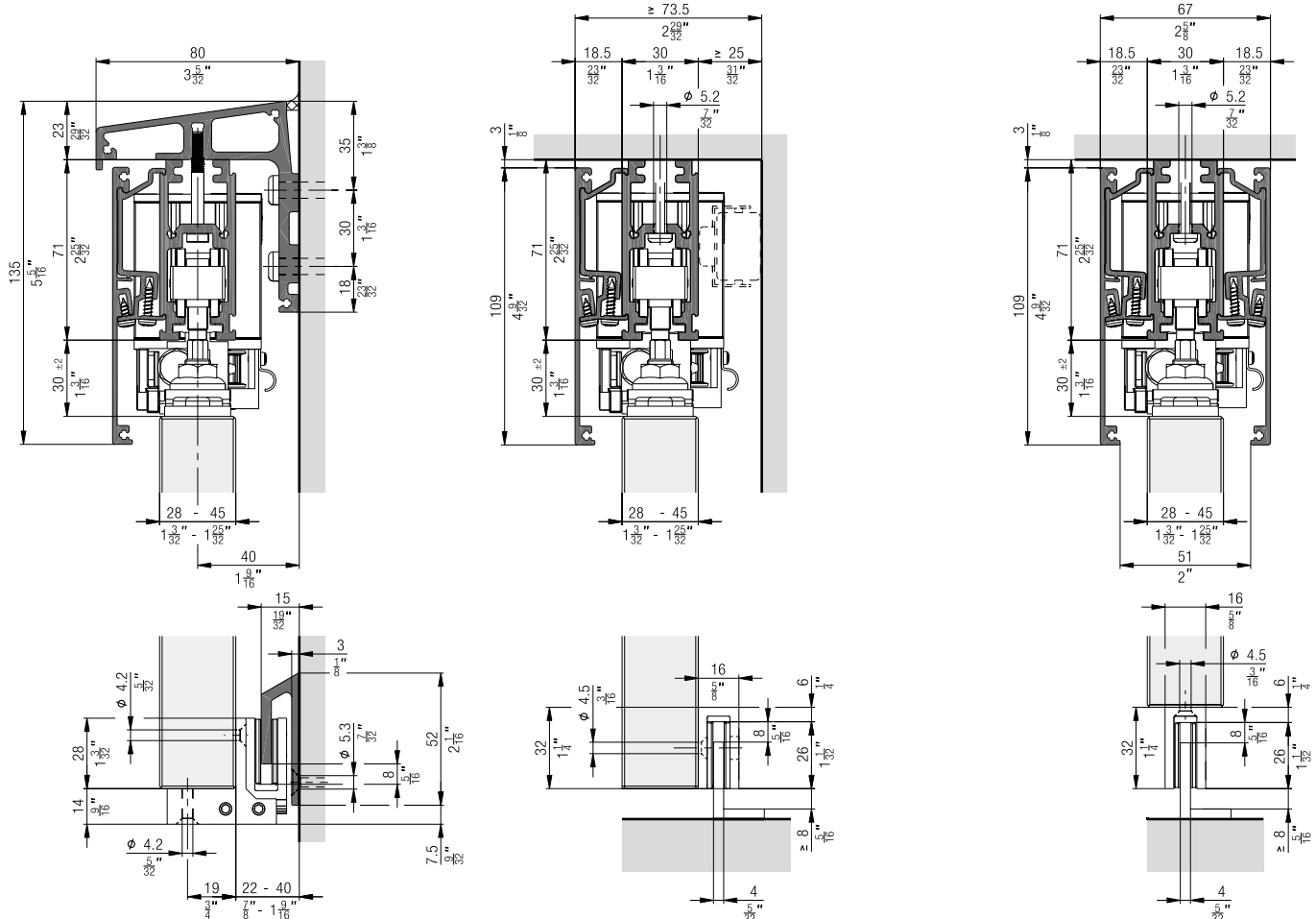
600–3750 mm (1' 11 5/8" to 12' 3 5/8")  
(max. shutter area 6.24 m<sup>2</sup> (67 ft<sup>2</sup>))



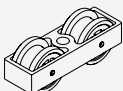
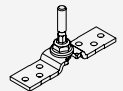
28–45 mm (1 3/32" to 1 25/32")




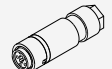

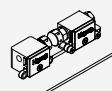

### Installation examples




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

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

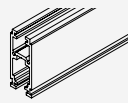
**Set Motronic 60 SMI**

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

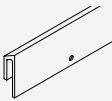
**Toothed belt**
**Toothed belt length calculation: 2 x system width**

		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

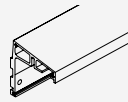
**Running tracks**

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


**Guide tracks**

		mm (inch)	No.
	Guide track, aluminum, anodized, pre-drilled	6000 (19' 8 7/32")	24460
		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, aluminum, pre-drilled	6000 (19' 8 7/32")	21380
		cut to size	21381

**Connecting pins for running tracks and angled profiles**

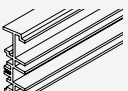
		No.
	Connecting bolts, 6-piece set	17221

### 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


### Spacer profiles

	mm (inch)	No.
	6000 (19' 8 7/32")	19724
	cut to size	19727

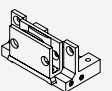
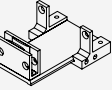

### Panels

	mm (inch)	No.
	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

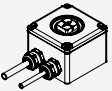

### Panel attachment components

	No.
	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
	Guide slider, for screw fixing 24542

### Start-up box

	No.
	Commissioning box 23789
	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 BF interface, CE tested

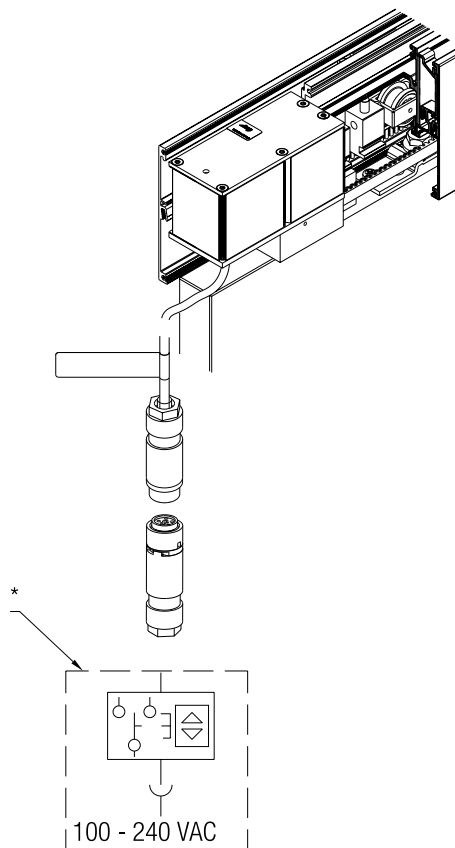
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	100 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

<b>Hawa Motronic 60</b>			I- →
Artikel-Nr.	30298	 	I+ →
Kontakt	www.hawa.com		
Charge	20ZZ/YYYYYY		
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			

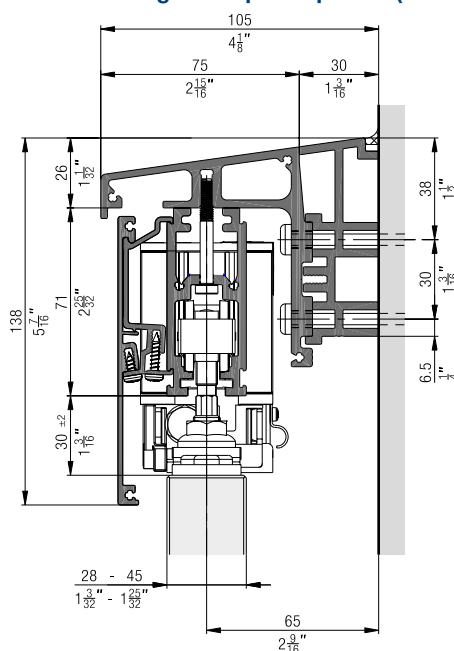
### Actuation and operation of the system

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

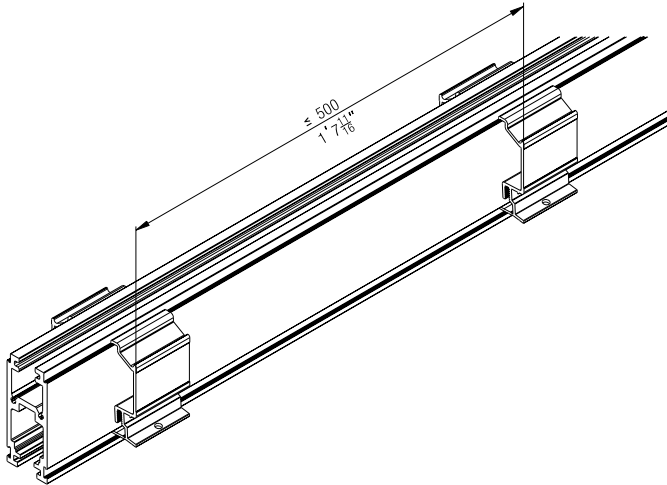


\* to be provided by customer

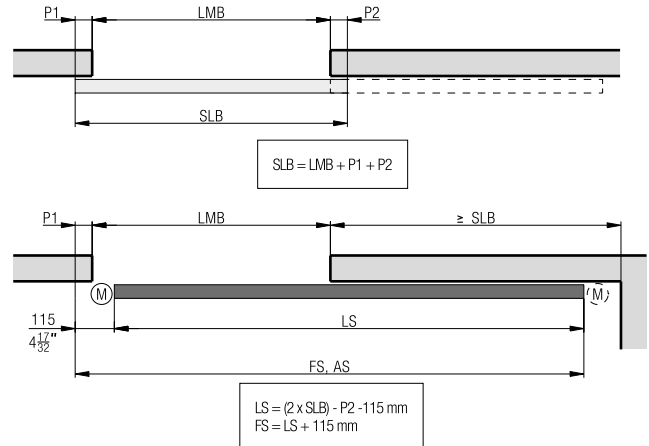
### Wall mounting with spacer profile (weatherboard)



### Panel attachment component installation

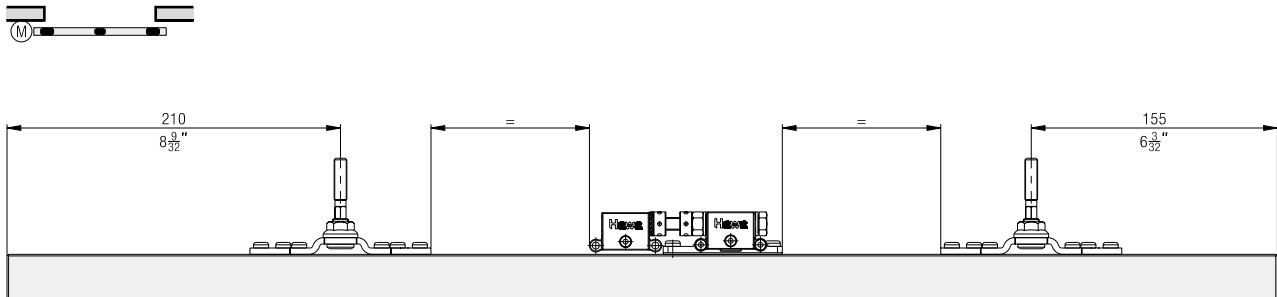


### Sliding shutter width calculations

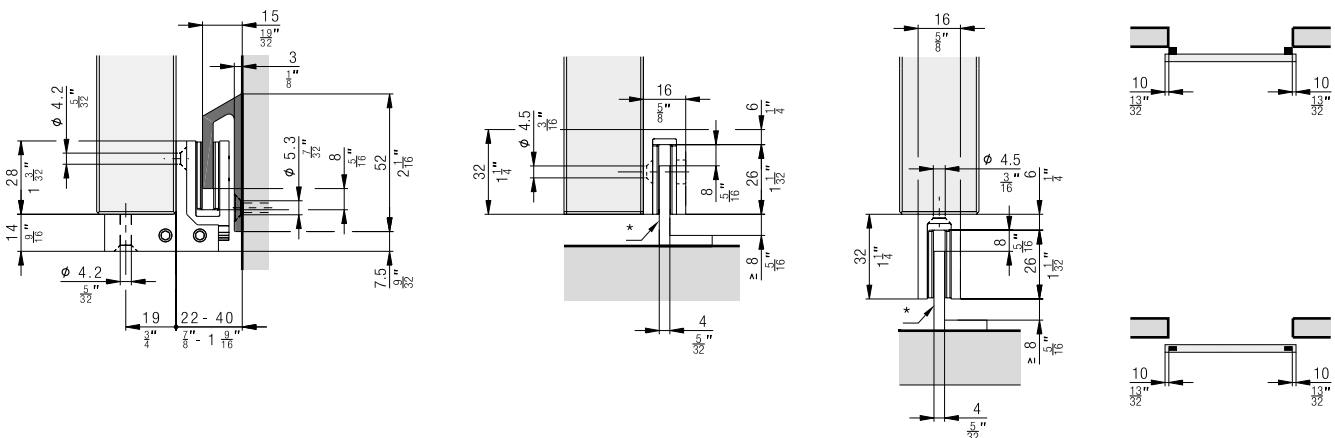


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track  
 M = Minimum space for drive unit

### 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](http://www.hawa.com).

**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.**

#### Product highlights



##### Comfort

Automated system with building control interface  
Optimized individual use of daylight



##### Productivity

Increases energy efficiency in the building

#### Technical specifications



Max. 60 kg (132 lbs.)



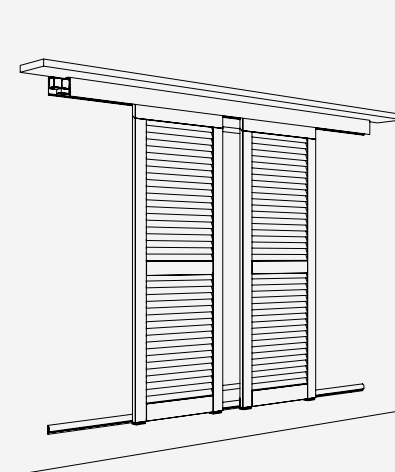
Max. 3200 mm (10' 5 31/32")



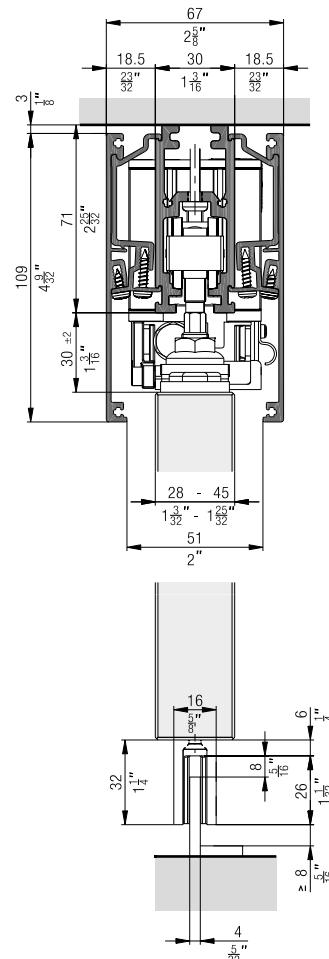
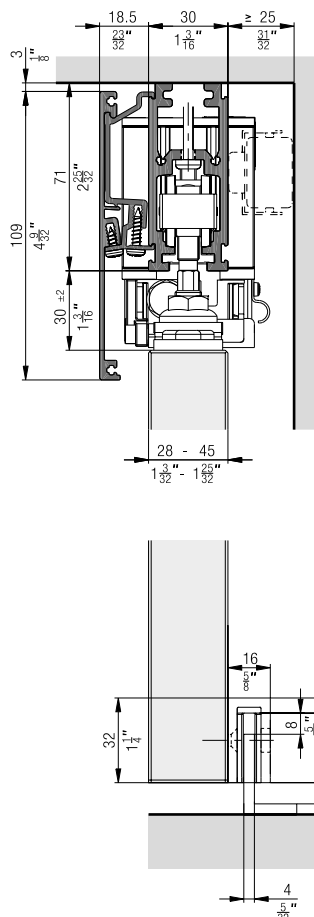
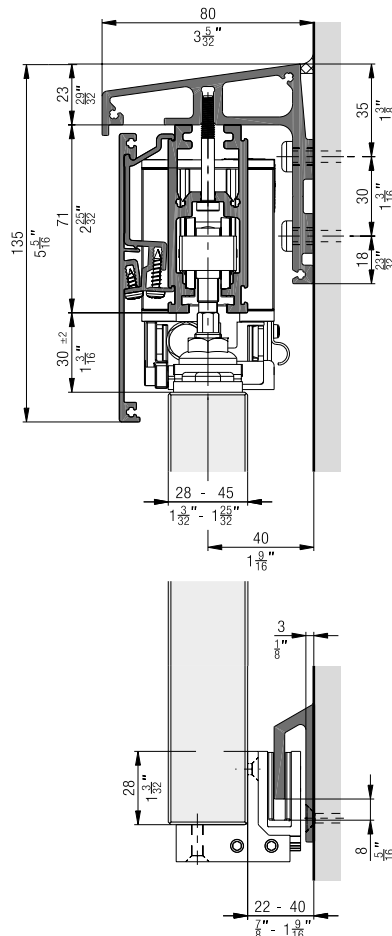
550–1875 mm (1' 9 21/32" to 6' 1 13/16")  
(Max. shutter area 6.24 m<sup>2</sup> (67 ft<sup>2</sup>))



28–45 mm (1 3/32" to 1 25/32")



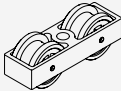
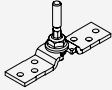
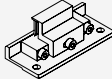
#### Installation examples



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

	No.
Hawa Frontslide 60 Matic Symmetric 2, for 2 sliding shutters	25133


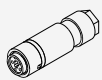

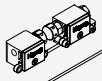

**Set consisting of:**

		25133	No.
	Two-wheeled running gear, M8, plastic wheels	4	17119
	Top fixing plate, with suspension bolt M8, stainless steel	4	24562
	Driver for Symmetric-installations	1	19655


**Set Motronic 60 SMI**

	No.
Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel	30520

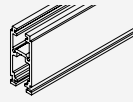
**Set consisting of:**

		30520	No.
	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

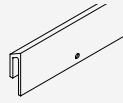
**Toothed belt**
**Toothed belt length calculation: 2 x system width**

		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

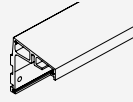
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24839
	6000 (19' 8 7/32")	24795
	cut to size	24796


**Guide tracks**

	mm (inch)	No.
	6000 (19' 8 7/32")	24460
	cut to size	24462

**Angled profile for 1 sliding level**

	mm (inch)	No.
	6000 (19' 8 7/32")	21378
	cut to size	21379
	6000 (19' 8 7/32")	21380
	cut to size	21381


**Connecting pins for running tracks and angled profiles**

		No.
	Connecting bolts, 6-piece set	17221

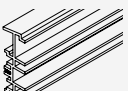


### Mounting screws for angled profiles


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


### Spacer profiles

	mm (inch)	No.
	6000 (19' 8 7/32")	19724
	cut to size	19727

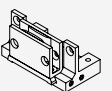
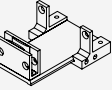

### Panels

	mm (inch)	No.
	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

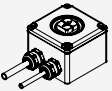

### Panel attachment components

	No.
	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
	Guide slider, for screw fixing 24542

### Start-up box

	No.
	Commissioning box 23789
	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 BF interface, CE tested

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

### Type plate

**Hawa Motronic 60** I- →

Artikel-Nr. 30298

Kontakt [www.hawa.com](http://www.hawa.com)

Charge 20ZZ/YYYYYY

Key-ID 0016XXXXXX, Bj: 20ZZ

Antriebskraft max. 100 N, IP54

100–240 VAC, 50/60 Hz, 30 W

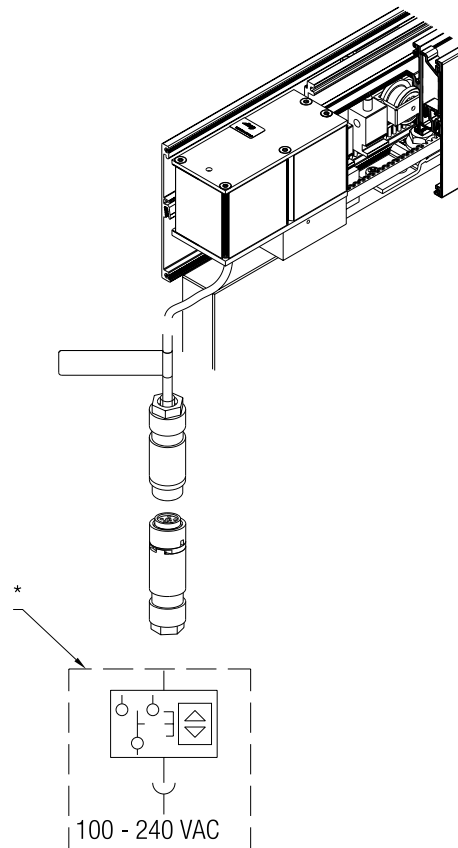
Geschwindigkeit max. 10 cm/s

Betriebstemp. -20 °C bis +60 °C

I+ →

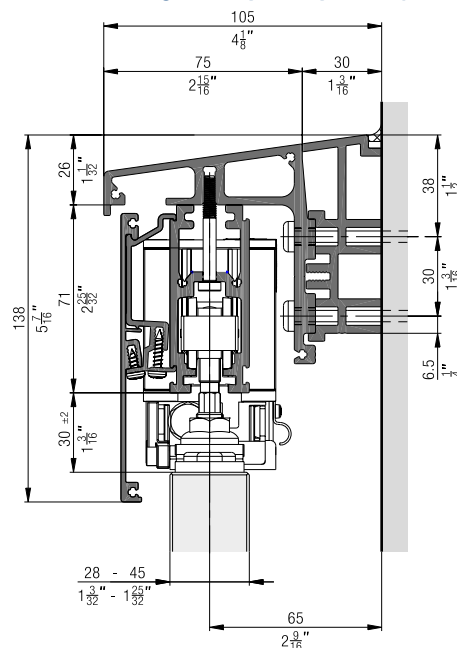
### Actuation and operation of the system

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

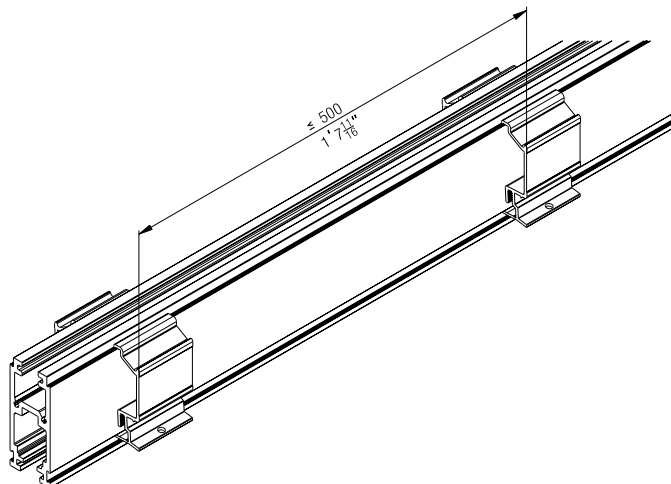


\* to be provided by customer

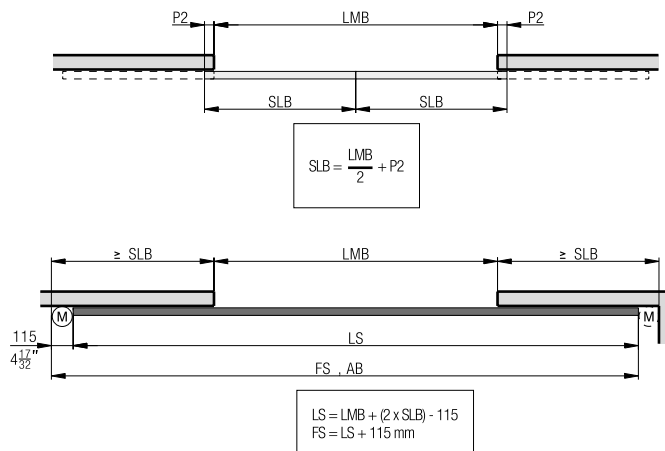
### Wall mounting with spacer profile (weatherboard)



### Panel attachment component installation

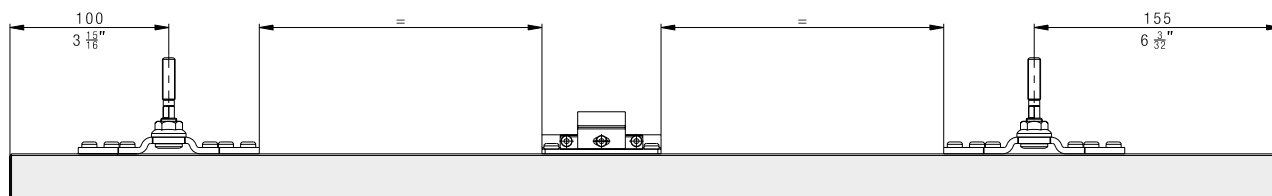
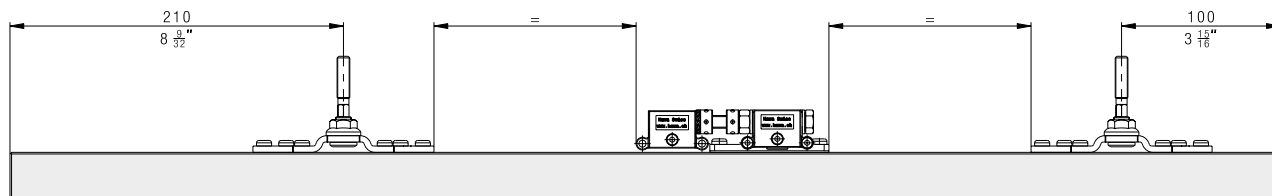


### Sliding shutter width calculations

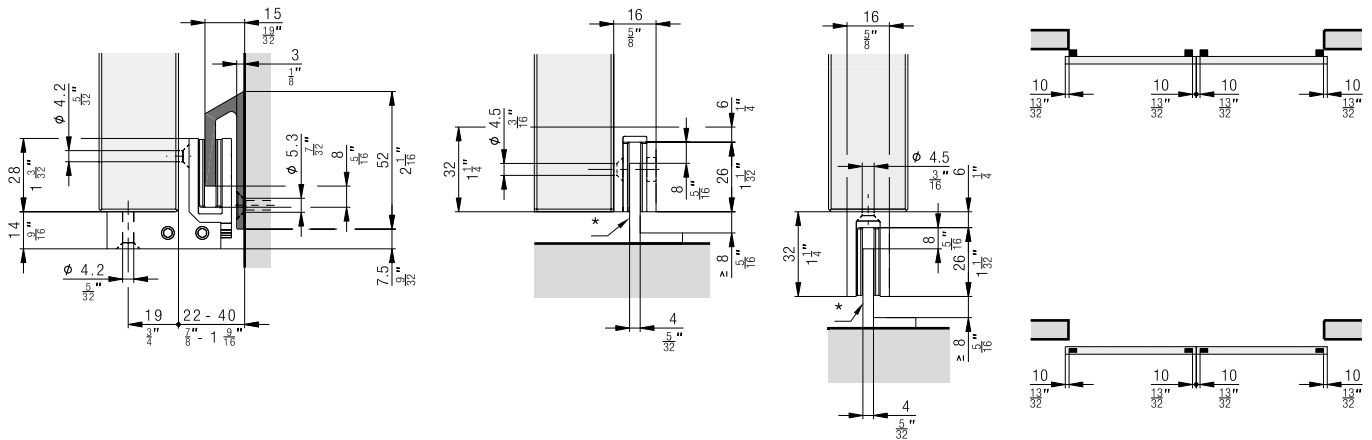


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track  
 M = Minimum space for drive unit

### 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](http://www.hawa.com).

**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.**

### Product highlights



#### Comfort

Automated system with building control interface  
Optimized individual use of daylight



#### Productivity

Increases energy efficiency in the building

### Technical specifications



Max. 40 kg (88 lbs.)



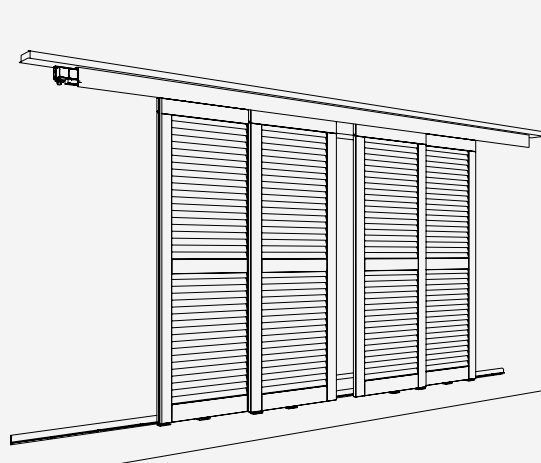
Max. 3200 mm (10' 5 31/32")



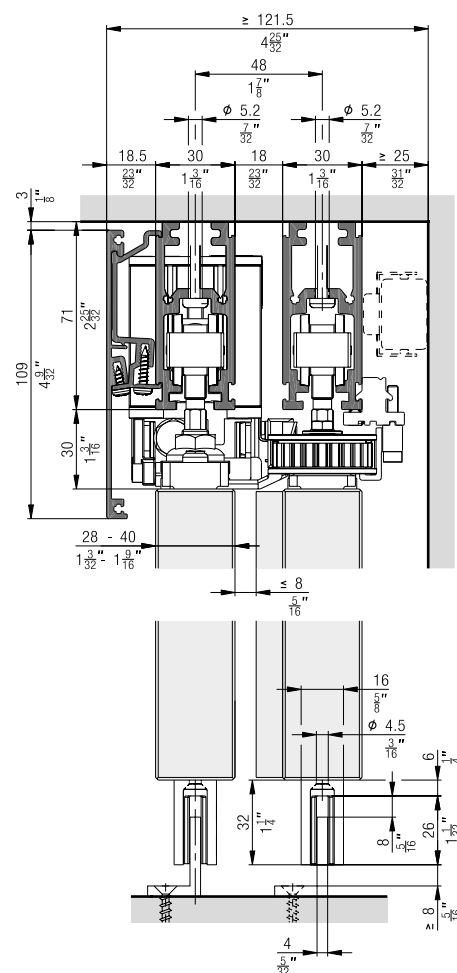
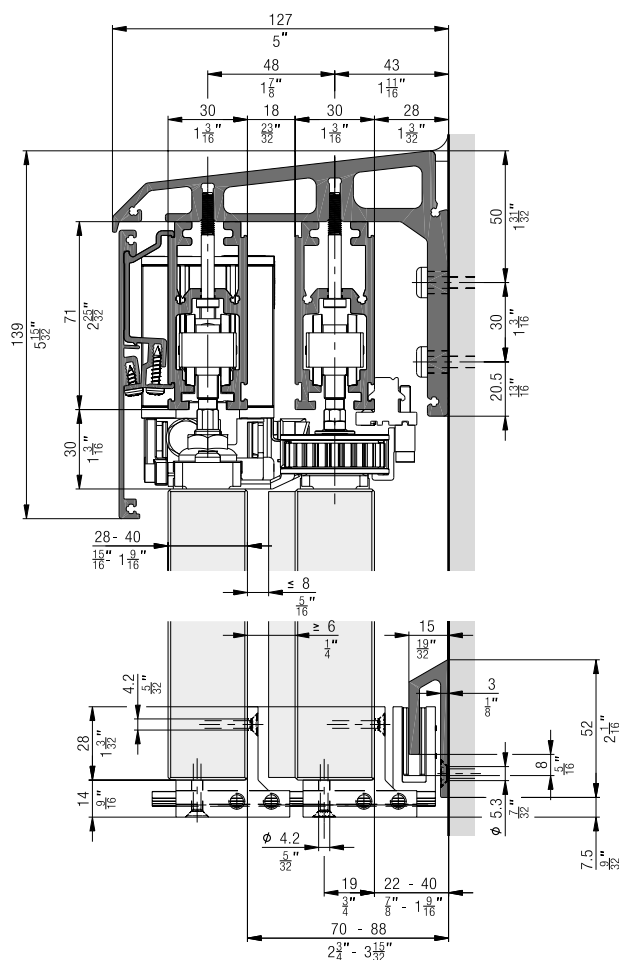
650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



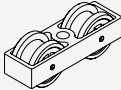
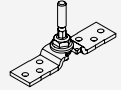
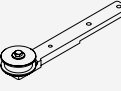
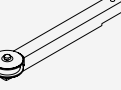
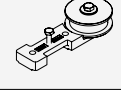
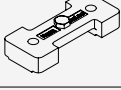
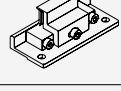
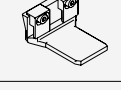
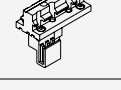


### Installation examples



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

	No.
Hawa Frontslide 60 Matic Symmetric 2+2, for 4 sliding shutter	25134






**Set consisting of:**

		25134	No.
	Two-wheeled running gear, M8, plastic wheels	8	17119
	Top fixing plate, with suspension bolt M8, stainless steel	8	24562
	Guide pulley wheel, with fixing plate, long	1	20139
	Guide pulley wheel, with fixing plate, extra long	1	25314
	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


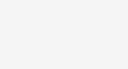
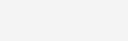


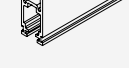
**Set Motronic 60 SMI**

	No.
Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel	30520

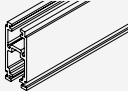


**Set consisting of:**

		30520	No.
	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

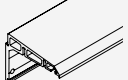
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24839
	6000 (19' 8 7/32")	24795
	cut to size	24796


### Guide tracks

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

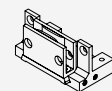
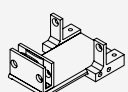

### Panels

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

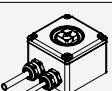

### Panel attachment components

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

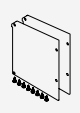
### Guides

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

### Start-up box

		No.
	Commissioning box	23789
	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:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	100 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided
Mains isolation device:	Customer-provided

### Type plate

**Hawa Motronic 60**

Artikel-Nr. 30298  
 Kontakt [www.hawa.com](http://www.hawa.com)  
 Charge 20ZZ/YYYYYY  
 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

**Hawa**

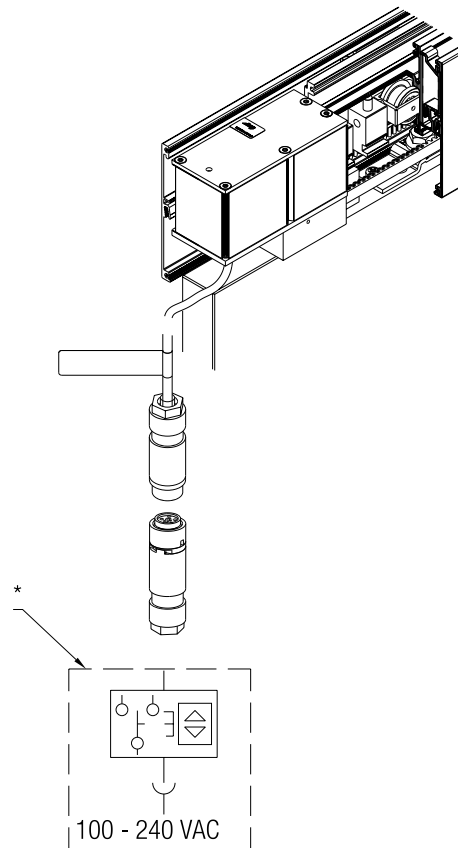
CE

I- →

I+ →

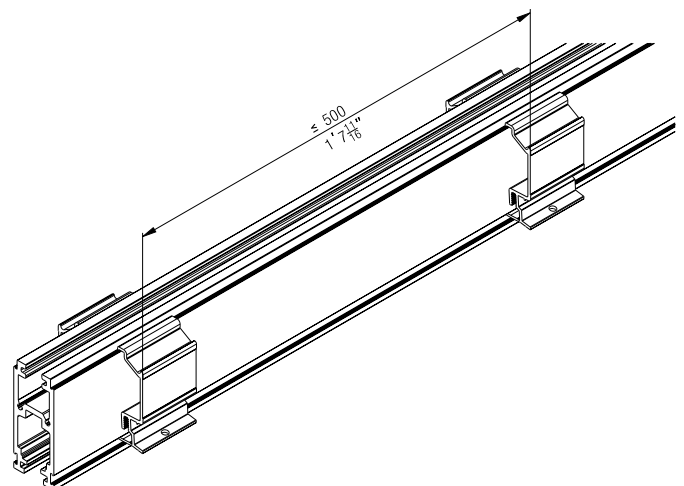
### Actuation and operation of the system

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

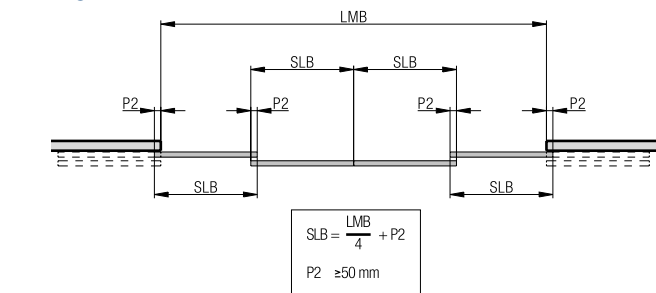


\* to be provided by customer

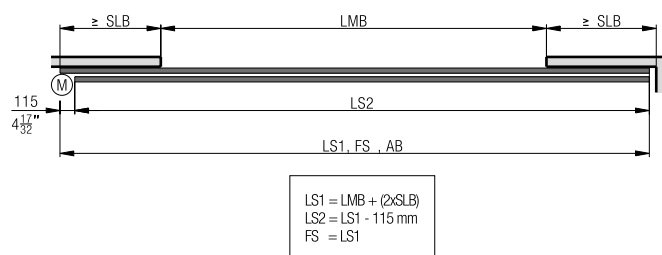
### Panel attachment component installation



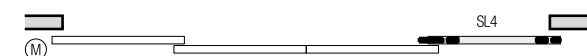
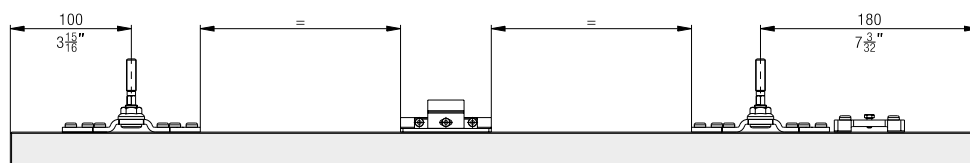
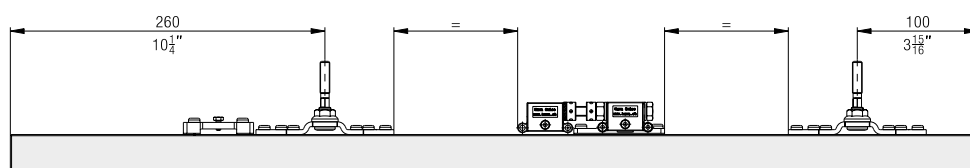
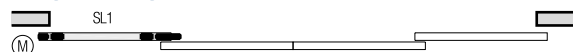
## Sliding shutter width calculations



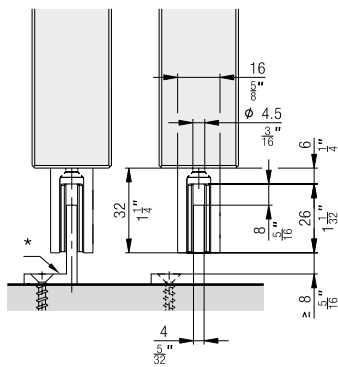
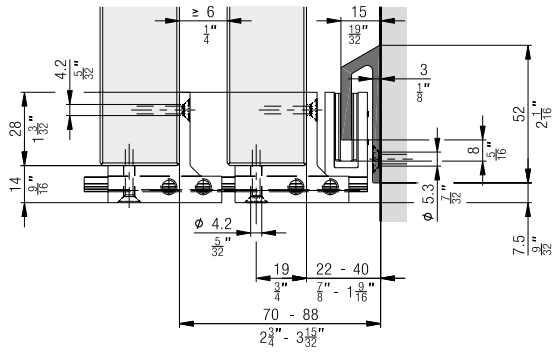
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



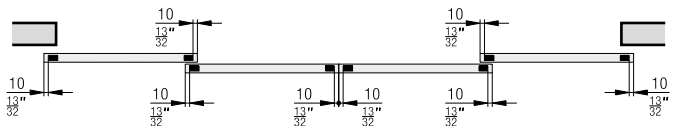
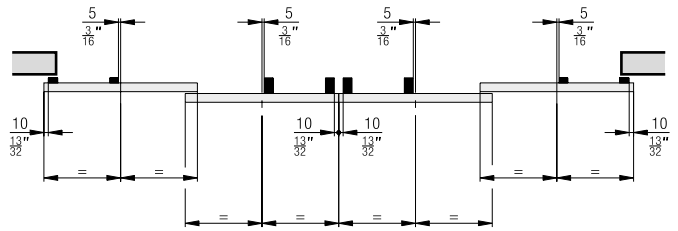
## Suspension points



## 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](http://www.hawa.com).

**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.**

### Product highlights



#### Comfort

Automated system with building control interface  
Optimized individual use of daylight



#### Aesthetics

Convertible, living façade with interesting design features

### Technical specifications



Max. 60 kg (132 lbs.)



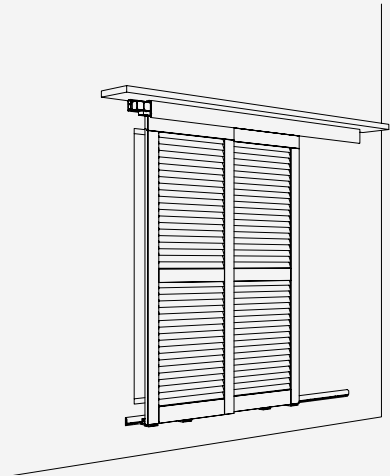
Max. 3200 mm (10' 5 31/32")



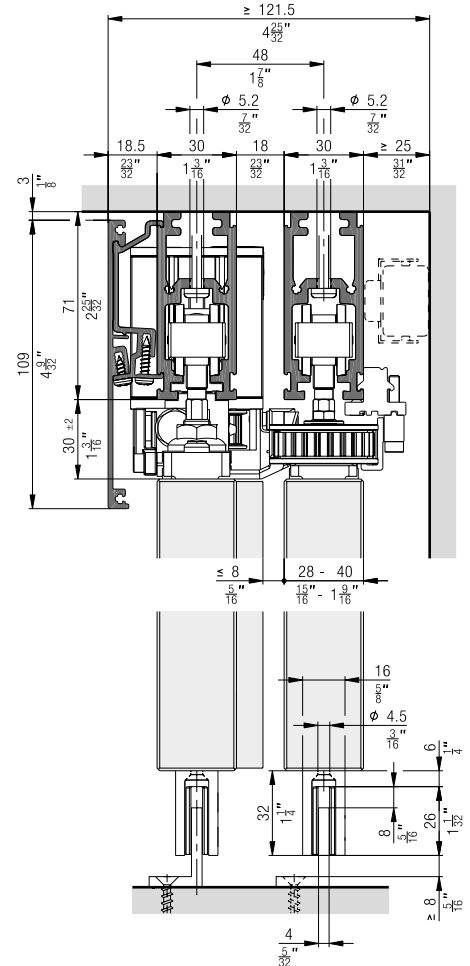
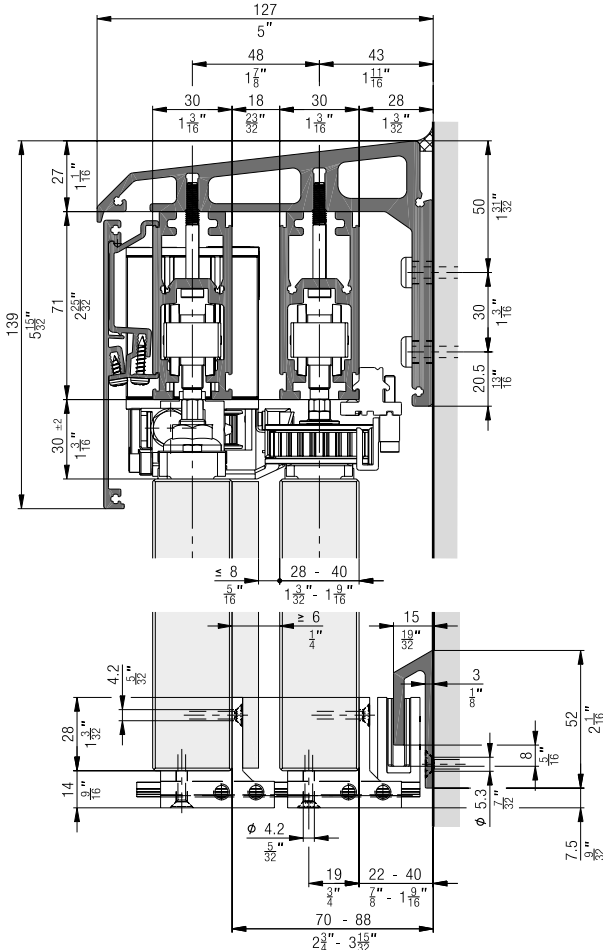
650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



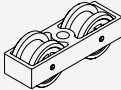
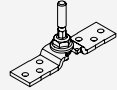

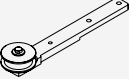
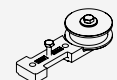
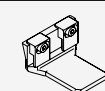
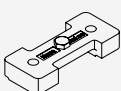

### Installation examples



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

	No.
Hawa Frontslide 60 Matic Telescopic, for 2 sliding shutters	25135




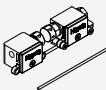

**Set consisting of:**

		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
	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 60 SMI**

	No.
Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel	30520

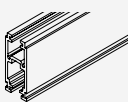
**Set consisting of:**

		30520	No.
	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

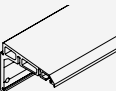
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24839
	6000 (19' 8 7/32")	24795
	cut to size	24796


### Guide tracks

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

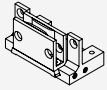
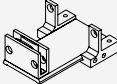

### Panels

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

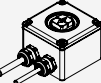

### Panel attachment components

		No.
	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
	Guide slider, for screw fixing	24542

### Start-up box

		No.
	Commissioning box	23789
	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

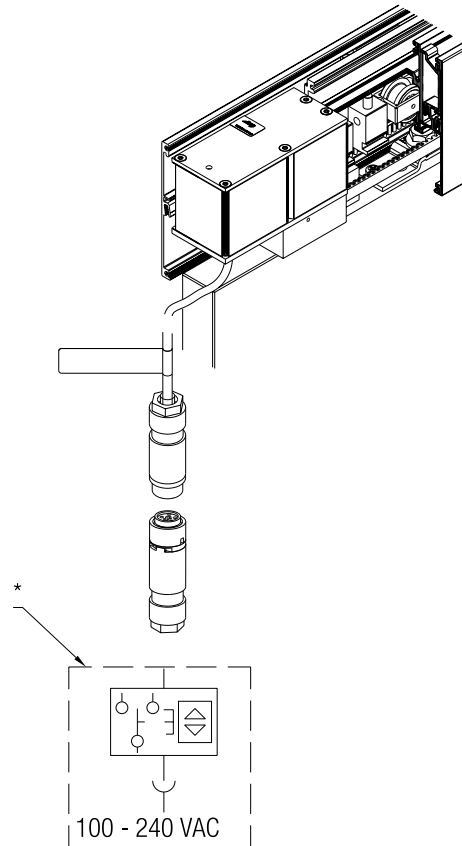
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	100 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

<b>Hawa Motronic 60</b>		I- →
Artikel-Nr. 30298		<b>Hawa</b>
Kontakt <a href="http://www.hawa.com">www.hawa.com</a>		
Charge 20ZZ/YYYYYY		I+ →
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		

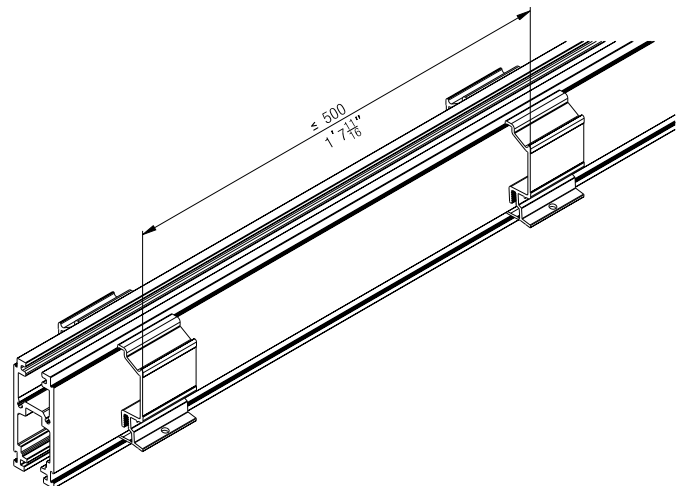
### Actuation and operation of the system

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

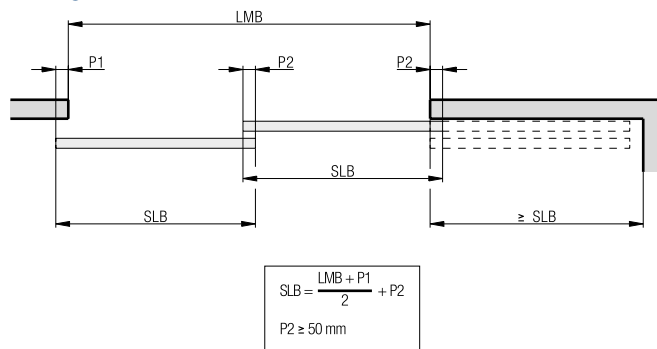


\* to be provided by customer

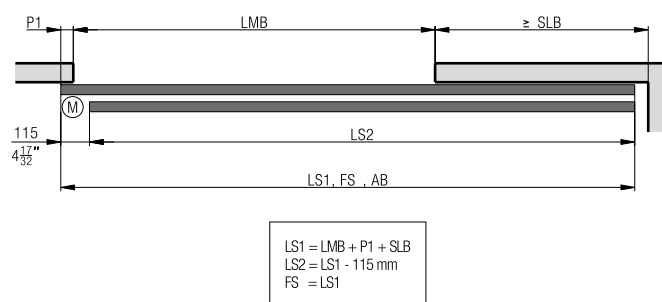
### Panel attachment component installation



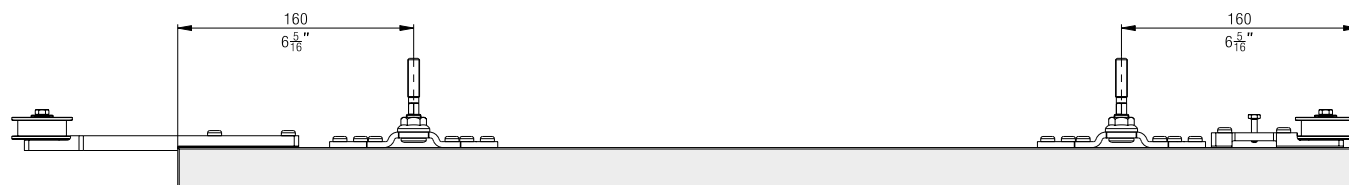
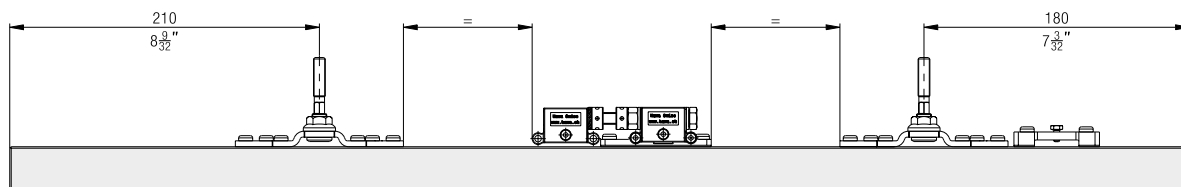
### Sliding shutter width calculations



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

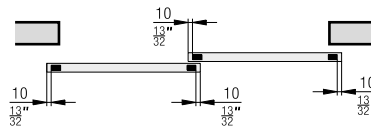
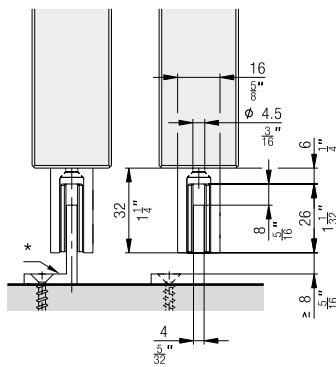
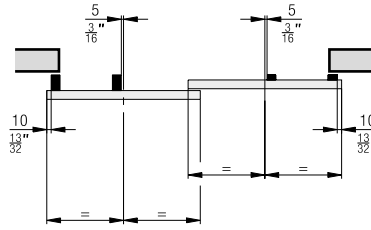
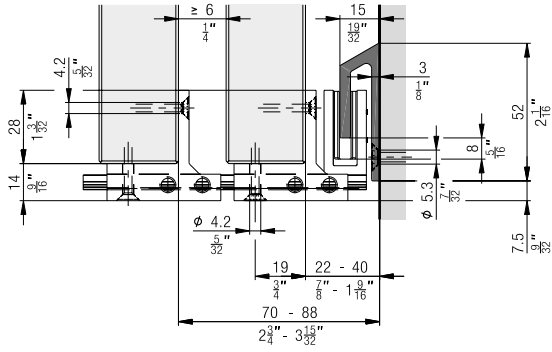


### Suspension points





## 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](http://www.hawa.com).

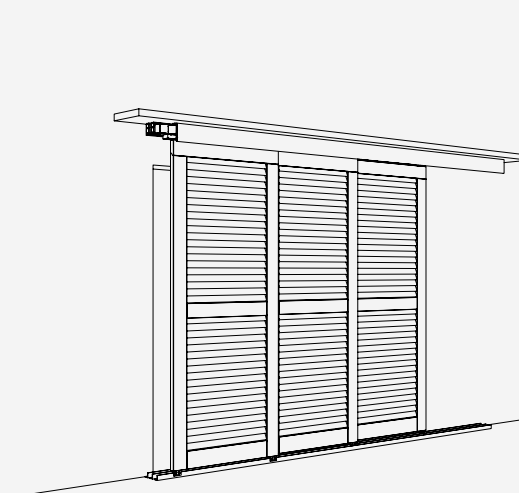
**Automated fitting with SMI interface for 3 wooden or metal shutters up to 50 kg (110 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

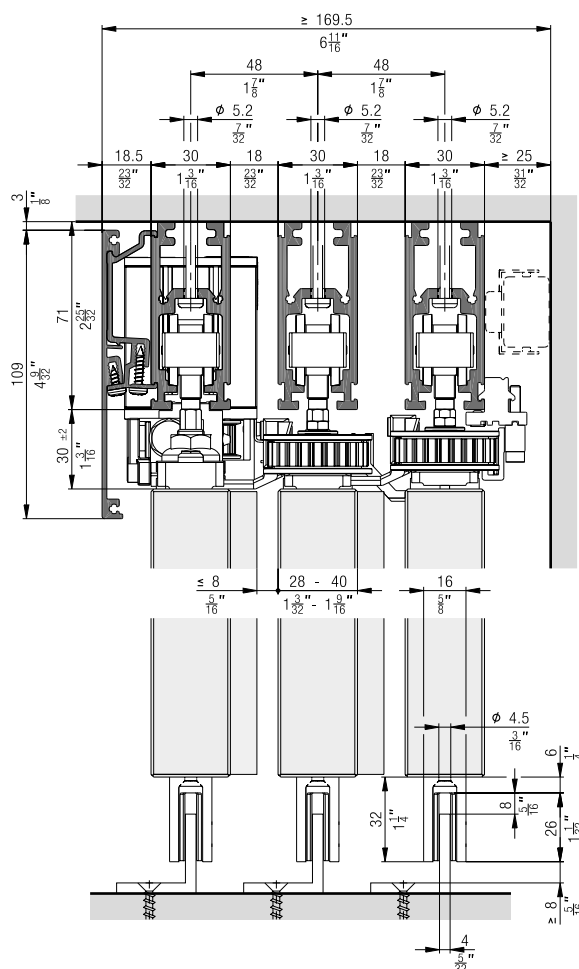
-  **Comfort** Automated system with building control interface  
Optimized individual use of daylight
-  **Aesthetics** Convertible, living façade with interesting design features

### Technical specifications

-  Max. 50 kg (110 lbs.)
-  Max. 3200 mm (10' 5 31/32")
-  650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))
-  28–40 mm (1 3/32" to 1 9/16")



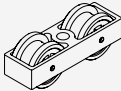
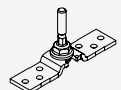
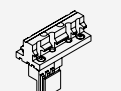
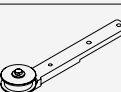
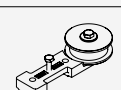
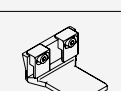
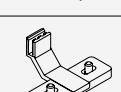
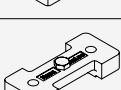

### Installation examples



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

	No.
Hawa Frontslide 60 Matic Telescopic 3, for 3 sliding shutters	25136

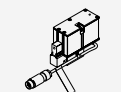
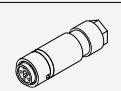
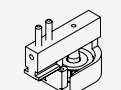
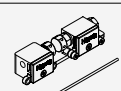
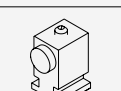
**Set consisting of:**

		25136	No.
	Two-wheeled running gear, M8, plastic wheels	6	17119
	Top fixing plate, with suspension bolt M8, stainless steel	6	24562
	Clamp for toothed belt	1	24777
	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
	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

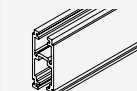
**Set consisting of:**

		30520	No.
	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

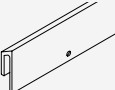
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24839
	6000 (19' 8 7/32")	24795
	cut to size	24796


### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


### Guide tracks

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

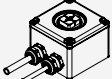

### Panel attachment components

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

### Guides

		No.
	Guide slider, for screw fixing	24542

### Start-up box



		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 60 SMI

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

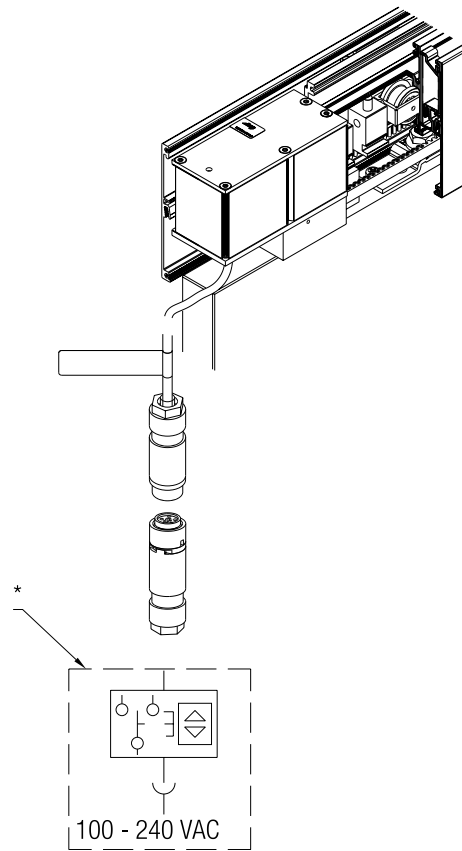
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	100 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

<b>Hawa Motronic 60</b>			I- →
Artikel-Nr.	30298	<b>Hawa</b>	
Kontakt	www.hawa.com		
Charge	20ZZ/YYYYYY		
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			I+ →

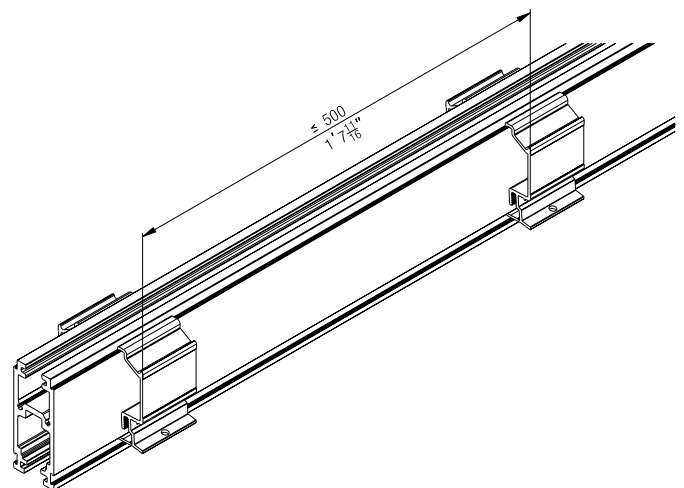
### Actuation and operation of the system

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

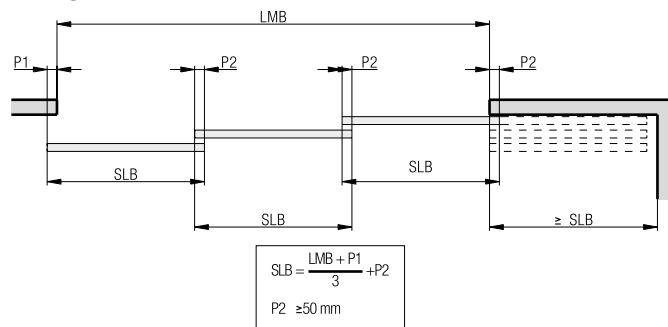


\* to be provided by customer

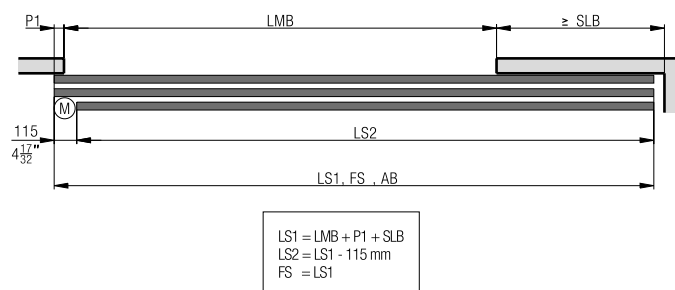
### Panel attachment component installation



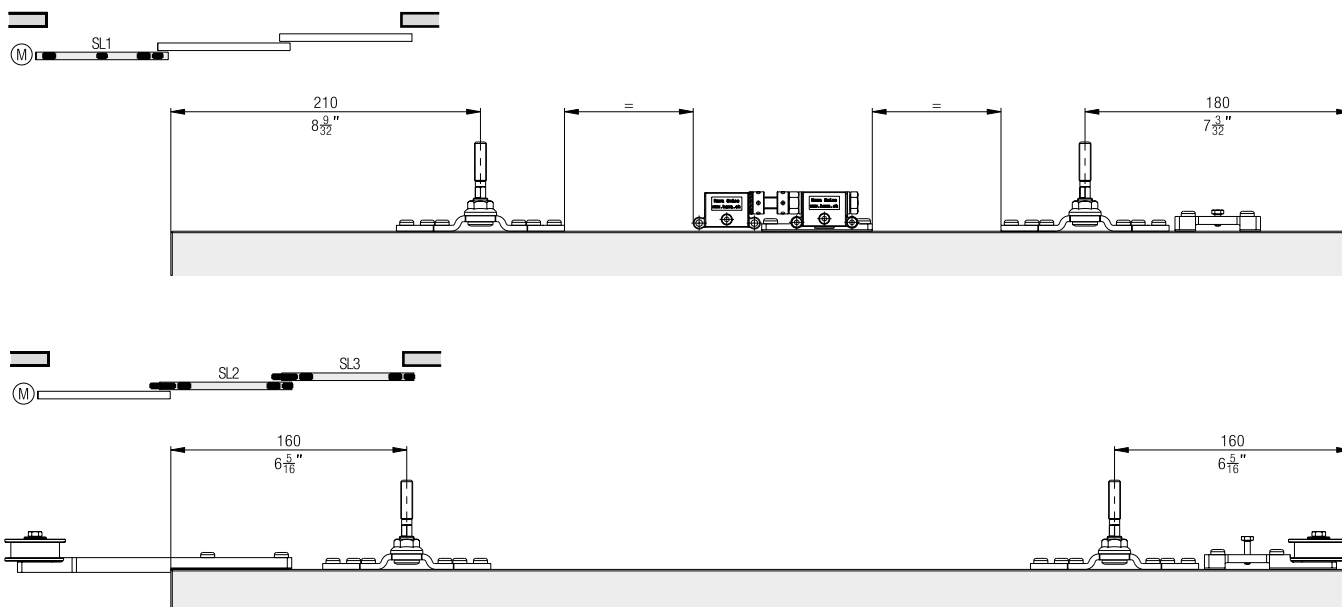
### Sliding shutter width calculations



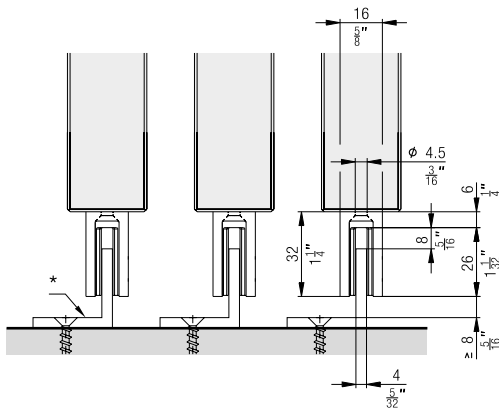
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



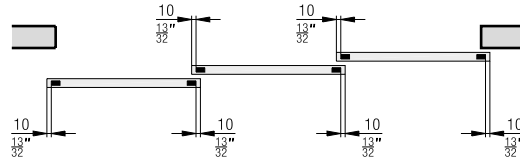
### Suspension points



## 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](http://www.hawa.com).

**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



Max. 40 kg (88 lbs.)



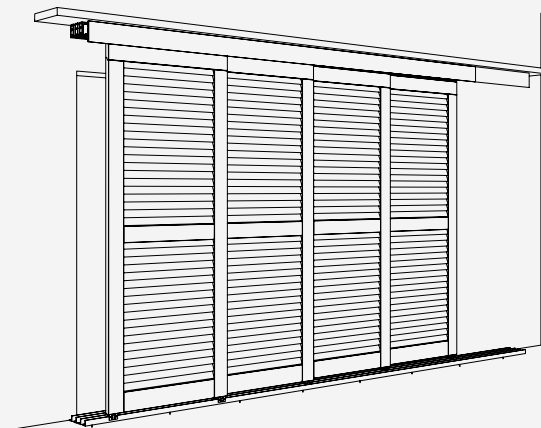
Max. 3200 mm (10' 5 31/32")



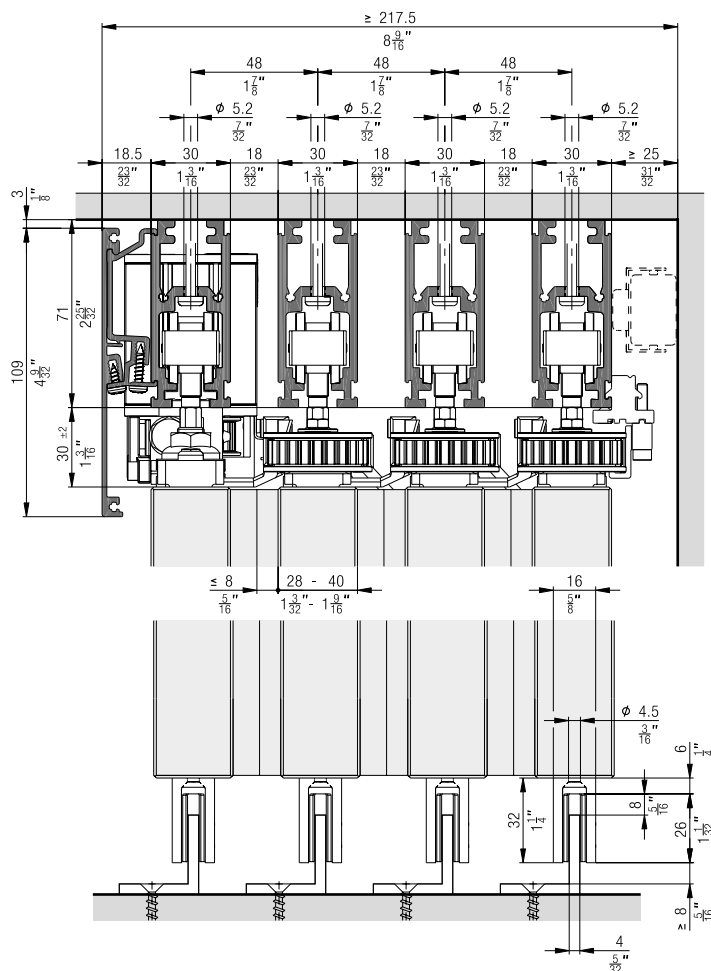
650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



### Installation examples

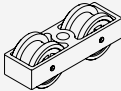
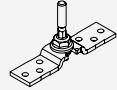

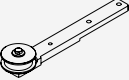
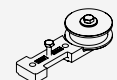
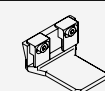
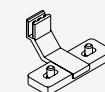
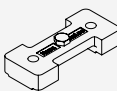





**Set for 4 sliding shutters up to 40 kg (88 lbs.)**

	No.
Hawa Frontslide 60 Matic Telescopic 4, for 4 sliding shutters	25137


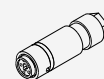

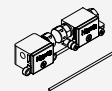

**Set consisting of:**

		25137	No.
	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
	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


**Set Motronic 60 SMI**

	No.
Hawa Motronic 60 SMI for Hawa Frontslide 60 Matic, incl. control unit, toothed belt lock and pulley wheel	30520

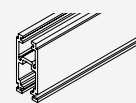
**Set consisting of:**

		30520	No.
	Hawa Motronic 60 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30298
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

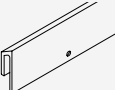
**Running tracks**

	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


### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


### Guide tracks

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

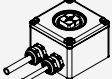

### Panel attachment components

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

### Guides

		No.
	Guide slider, for screw fixing	24542

### Start-up box



		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 60 SMI

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

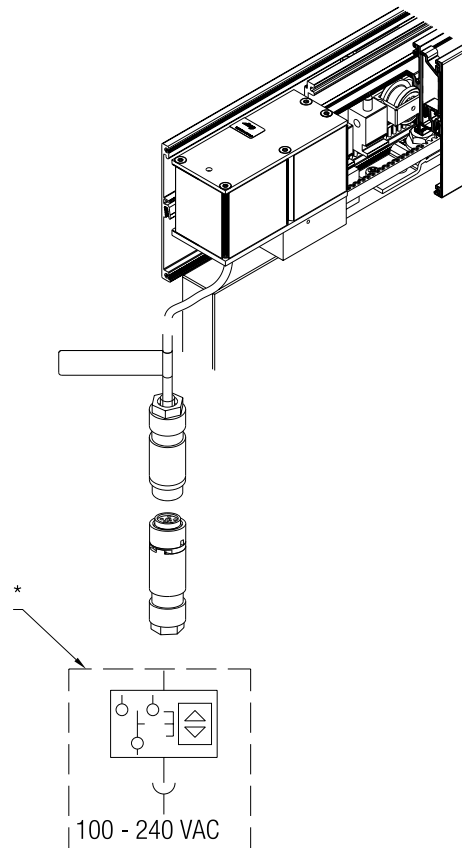
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	100 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

<b>Hawa Motronic 60</b>			I- →
Artikel-Nr.	30298	<b>Hawa</b>	
Kontakt	www.hawa.com		
Charge	20ZZ/YYYYYY		
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			I+ →

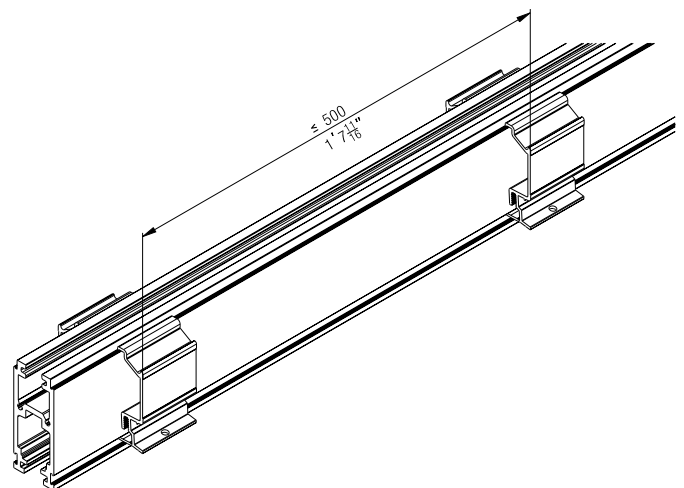
### Actuation and operation of the system

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

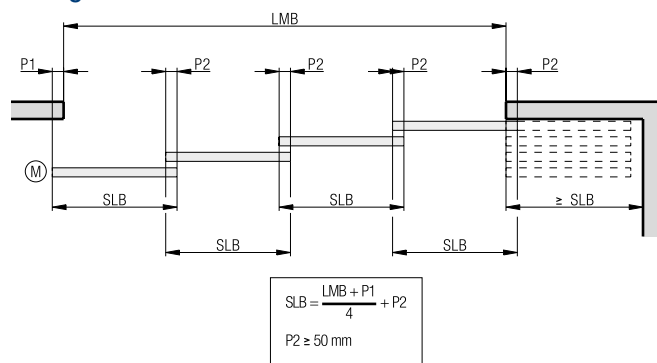


\* to be provided by customer

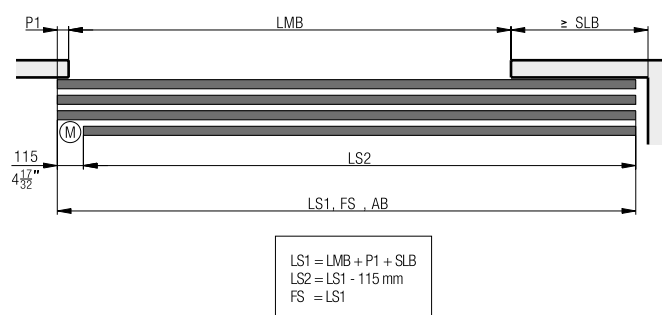
### Panel attachment component installation



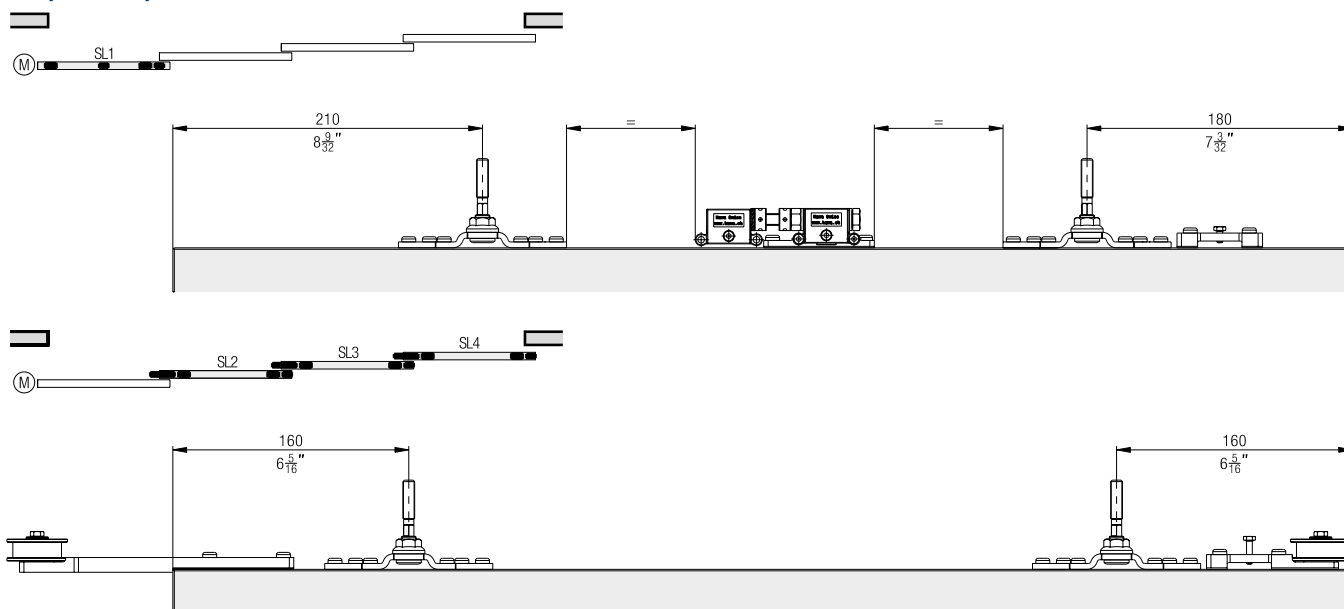
### Sliding shutter width calculations



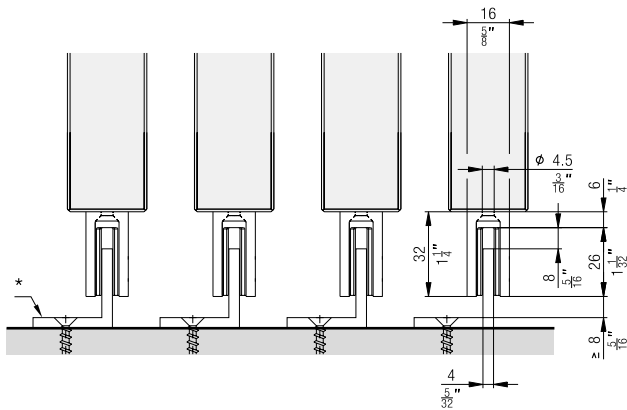
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



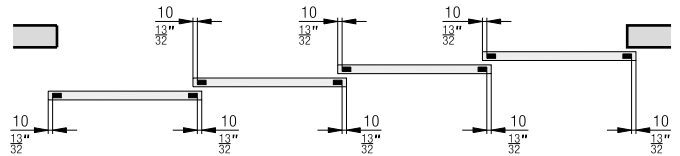
### Suspension points



## 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](http://www.hawa.com).

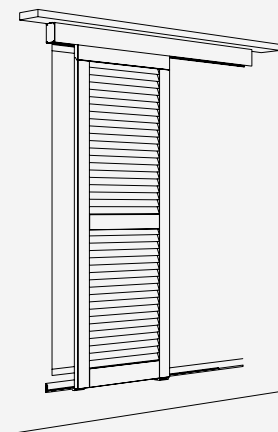
## Fitting for top-running wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.

### Product highlights

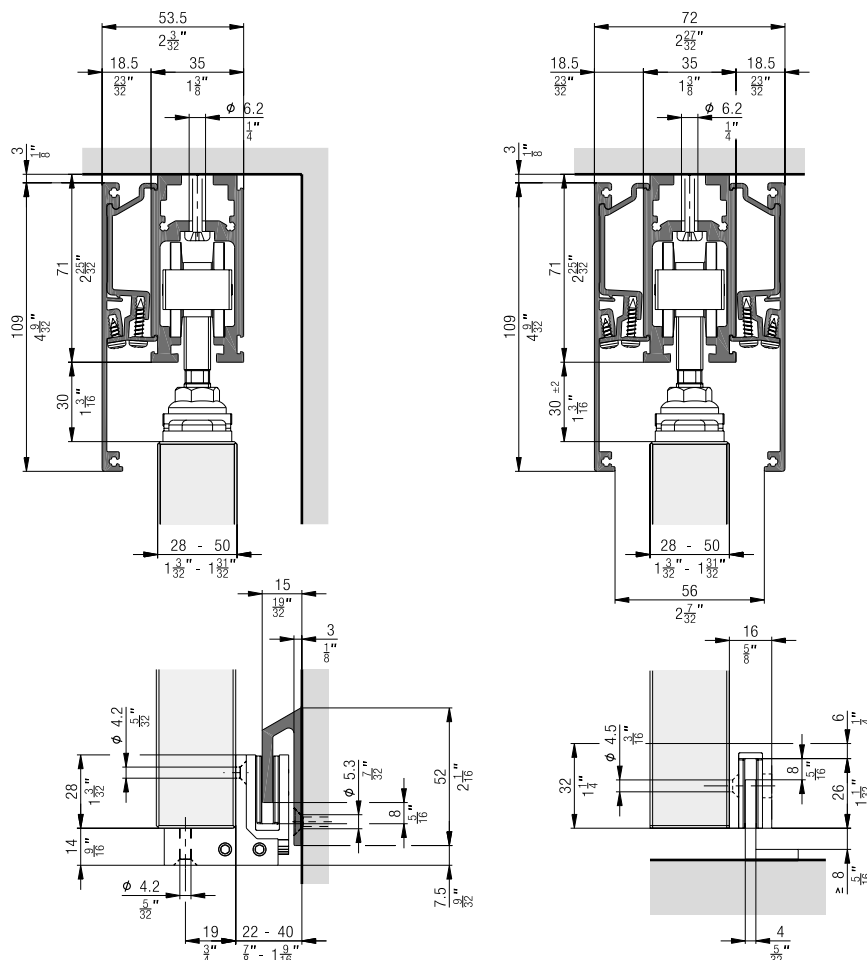
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	100 kg (220 lbs.)
	Max.	3200 mm (10' 5 31/32")
		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")



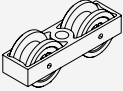
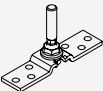
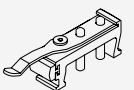
### Installation examples



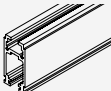
### Set for 1 sliding shutter up to 100 kg (220 lbs.)

	No.
Hawa Frontslide 100 A, for 1 sliding shutter	25123


### Set consisting of:

		25123	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

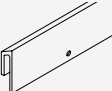
### Running tracks

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



### Connecting pins for running tracks

	No.
	Connecting bolts, 6-piece set
	17221


### Guide tracks

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

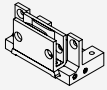
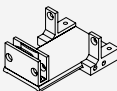

### Panels

		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.
	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16"), 5-piece set
	24767

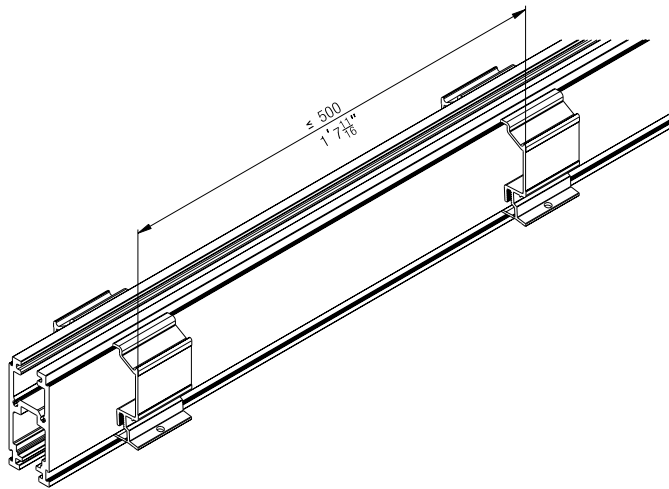
### Guides

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

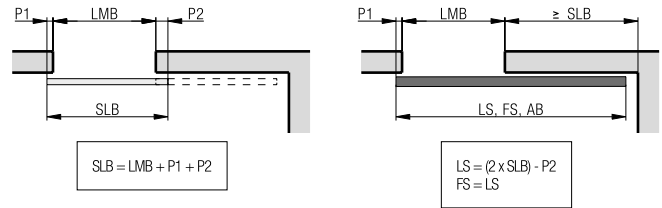
### Accessories

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

## Panel attachment component installation

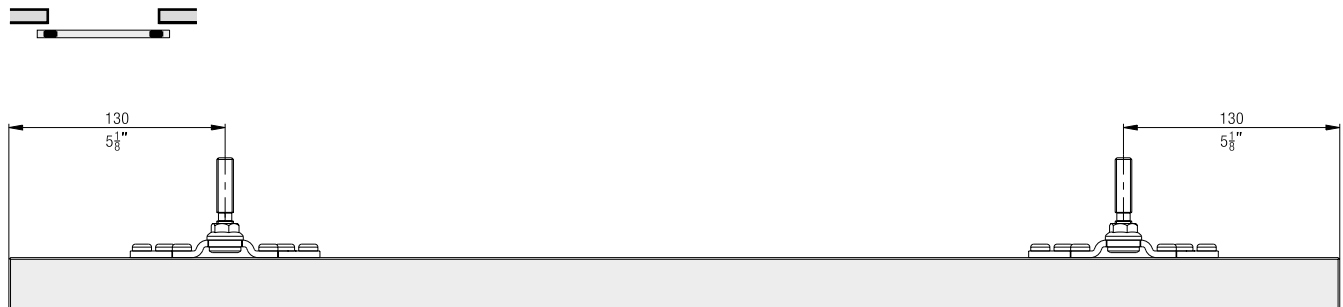


## Sliding shutter width calculation

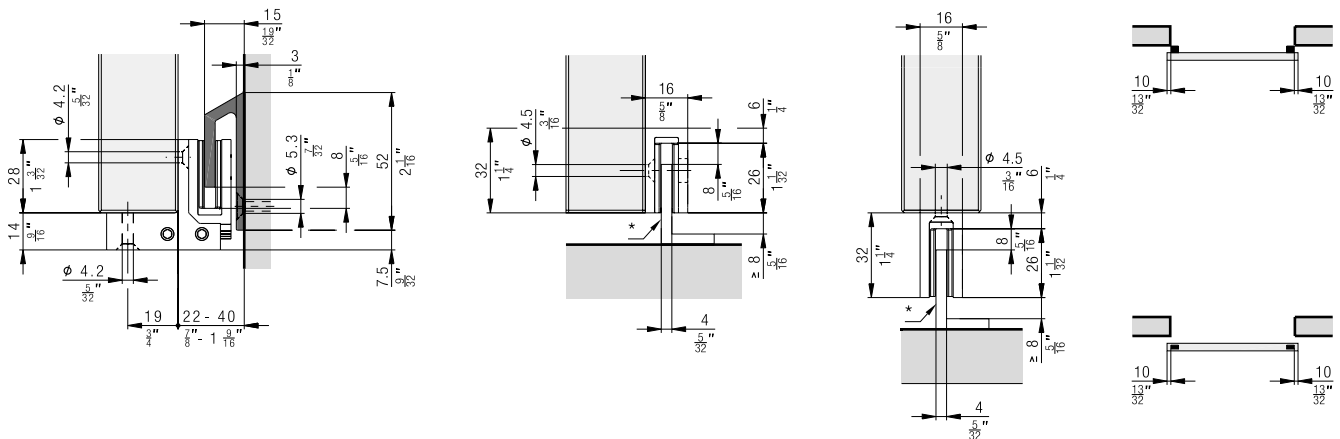


AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track

## Suspension points



## 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)
- Wind resistance class overview from page 198

Further information about the product can be found on [www.hawa.com](http://www.hawa.com).



**Fitting for 2 symmetrically opening 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

## Security

The shutters withstand even stormy winds,  
both open and closed

## Technical specifications



Max. 100 kg (220 lbs.)



Max. 3200 mm (10' 5 31/32")

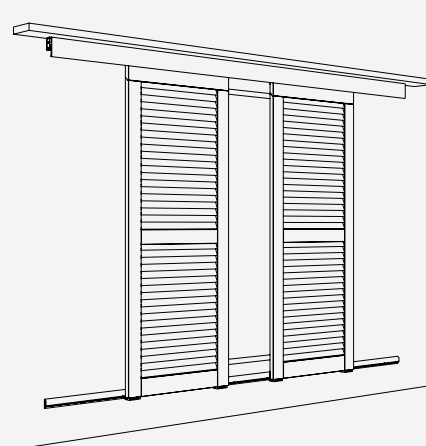


550–1500 mm (1' 9 21/32" to 4' 11 1/16")

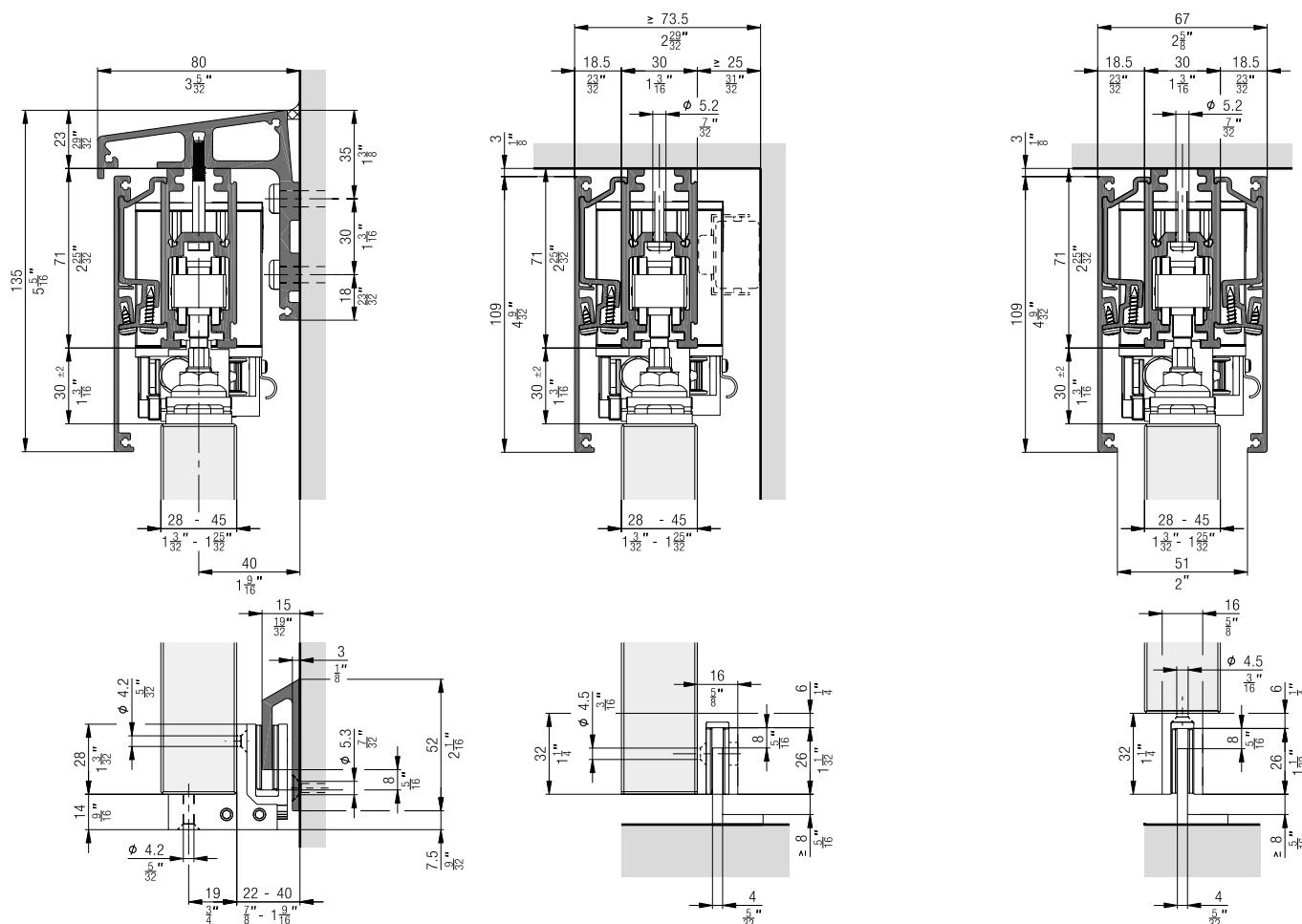
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–50 mm (1 3/32" to 1 31/32")



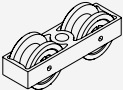
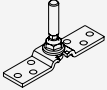
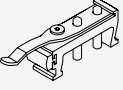

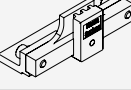
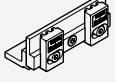
## Installation examples




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

	No.
Hawa Frontslide 100 A Symmetric 2, for 2 sliding shutters	25125

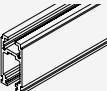
**Set consisting of:**

		25125	No.
	Two-wheeled running gear, M10, plastic wheels	4	24552
	Top fixing plate, stainless steel, with hanger bolt M10	4	24564
	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

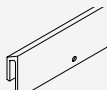
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24840
	6000 (19' 8 7/32")	24797
	cut to size	24798

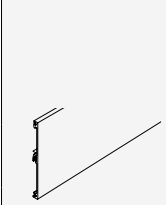
**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

	mm (inch)	No.
	6000 (19' 8 7/32")	24460
	cut to size	24462

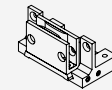
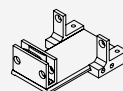

**Panels**

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

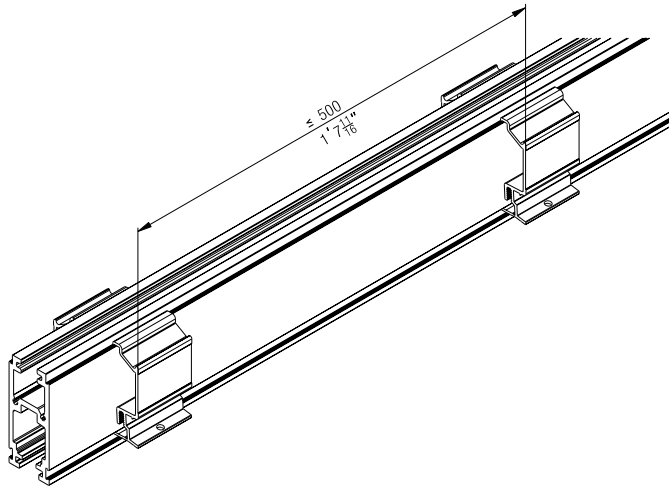
**Guides**

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

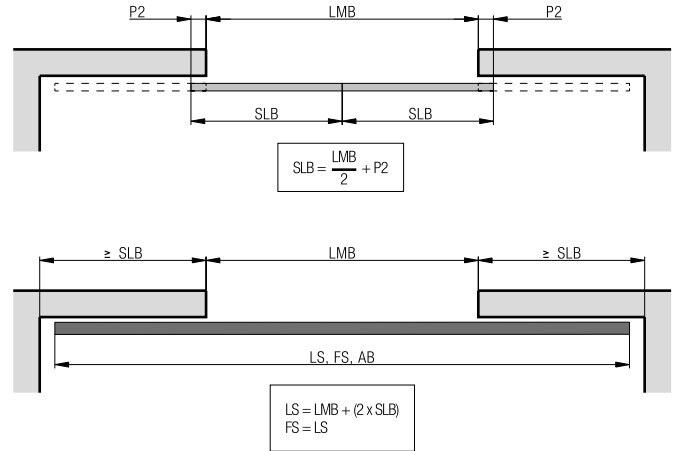
**Accessories**

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

### Panel attachment component installation

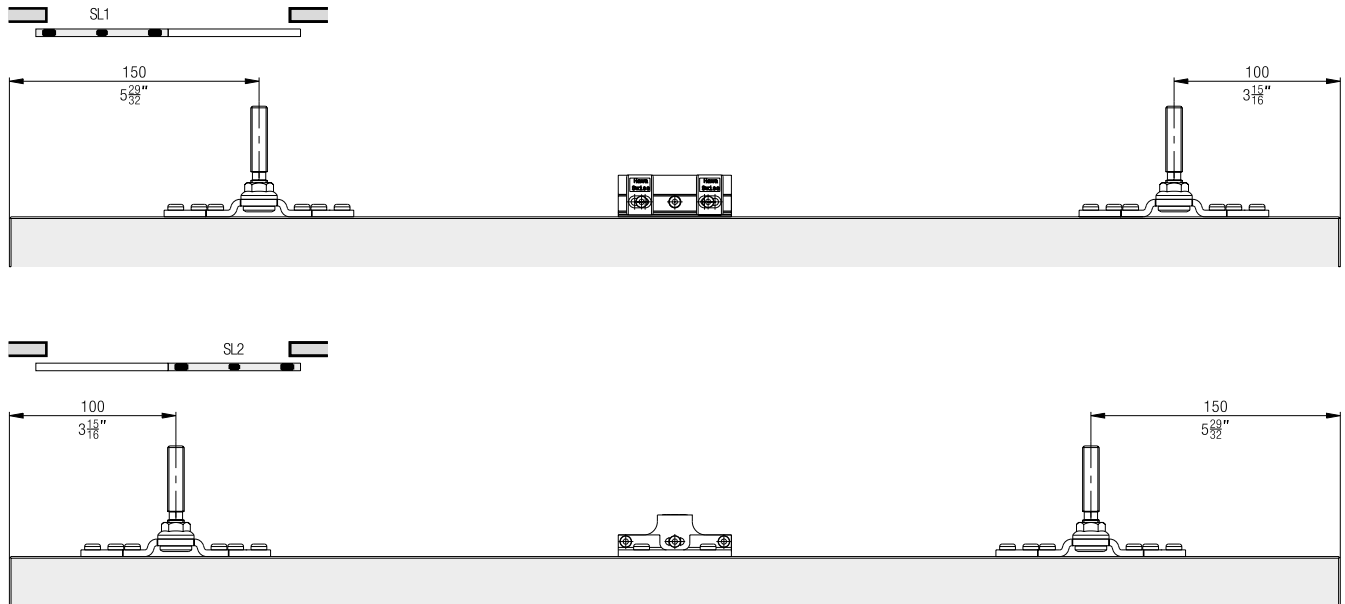


### Sliding shutter width calculations

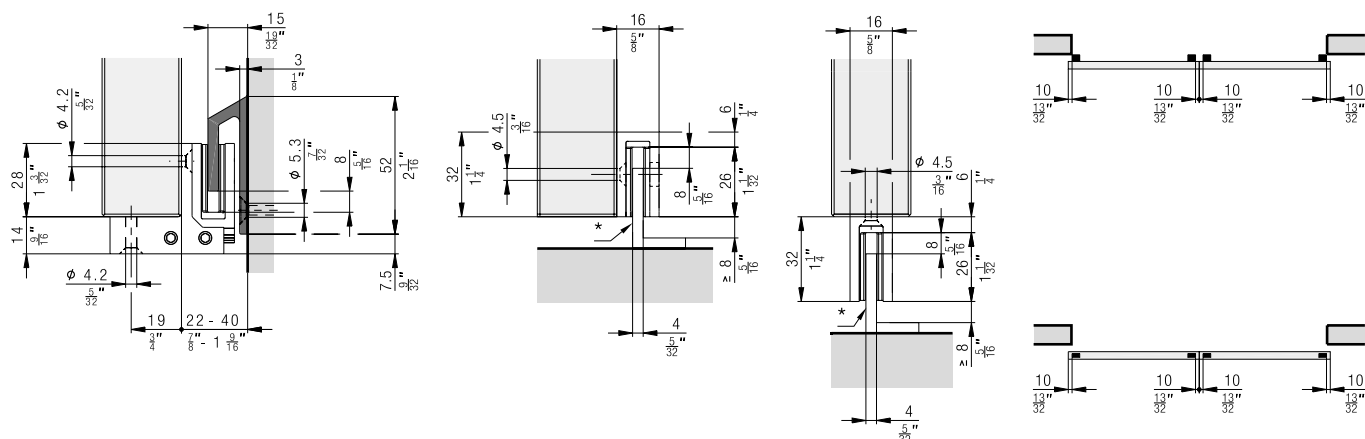


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### 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](http://www.hawa.com).

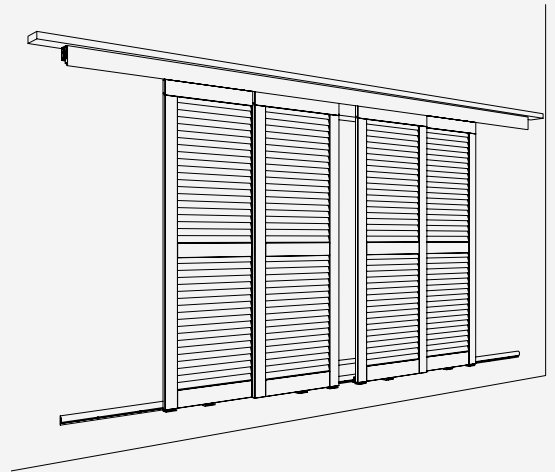
**Fitting for 4 symmetrically opening wooden or metal shutters up to 70 kg (154 lbs.).  
With screwed on running track. Ceiling or architrave mounting.**

### Product highlights

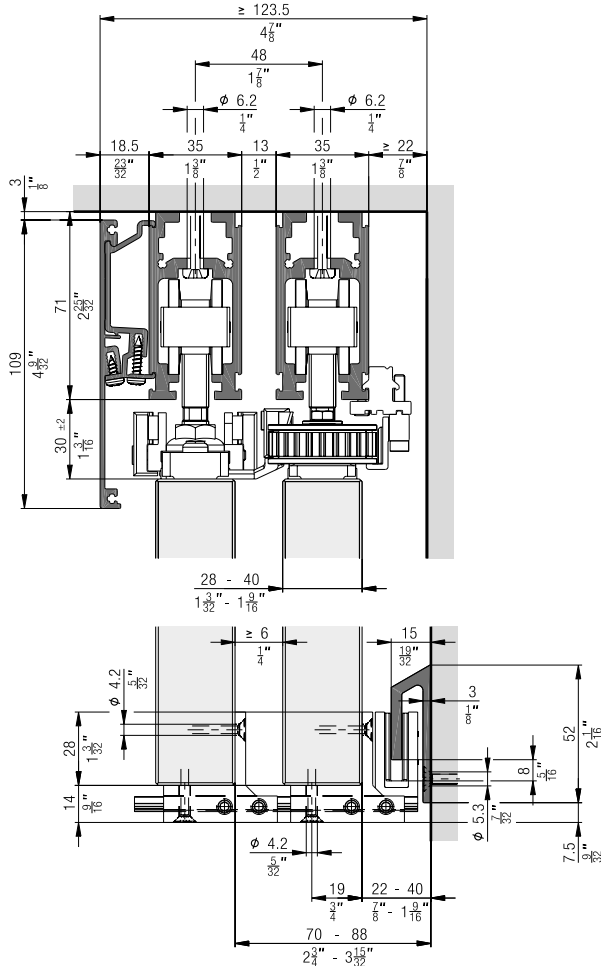
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	70 kg (154 lbs.)
	Max.	3200 mm (10' 5 31/32")
		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")



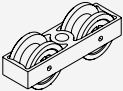
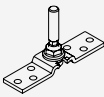
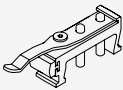

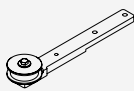
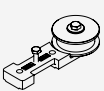
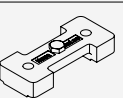
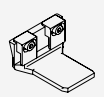
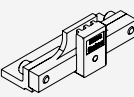
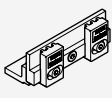
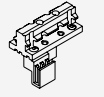

### Installation examples




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

	No.
Hawa Frontslide 100 A Symmetric 2+2, for 4 sliding shutters	25126

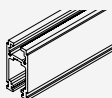
**Set consisting of:**

		25126	No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
	Track stop with adjustable retainer	3	24834
	Guide pulley wheel matching with running track Hawa Frontslide 60-140	2	24793
	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
	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

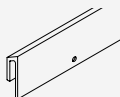
**Running tracks**

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

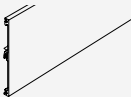
**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

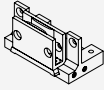
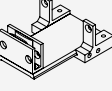

**Panels**

		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

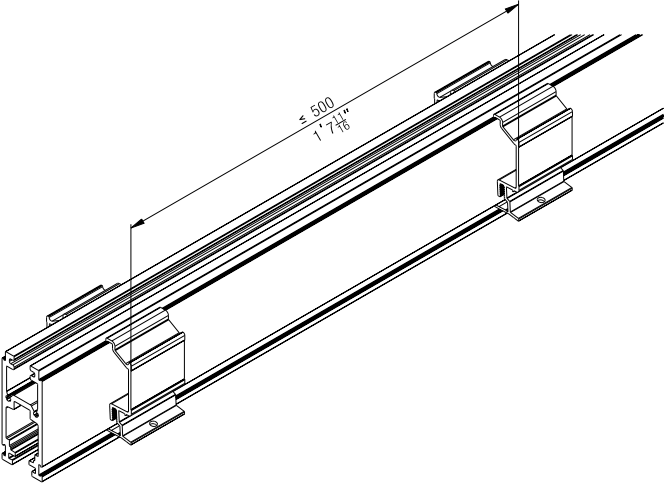
Panel attachment components

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

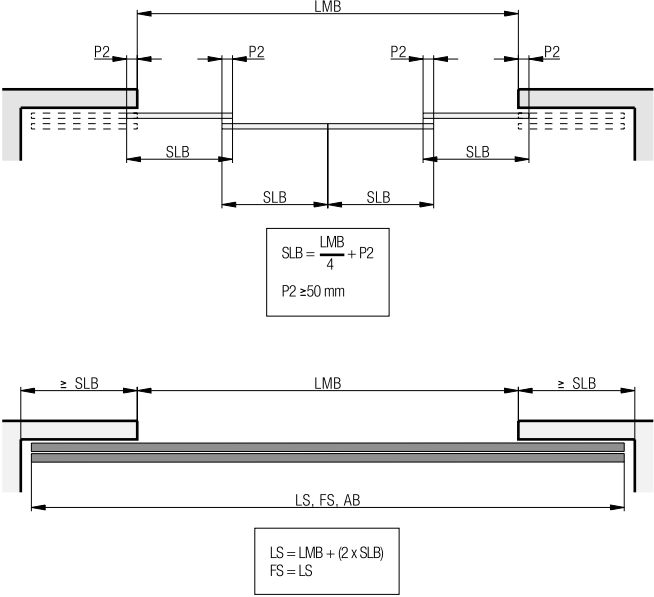
Guides

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

Panel attachment component installation

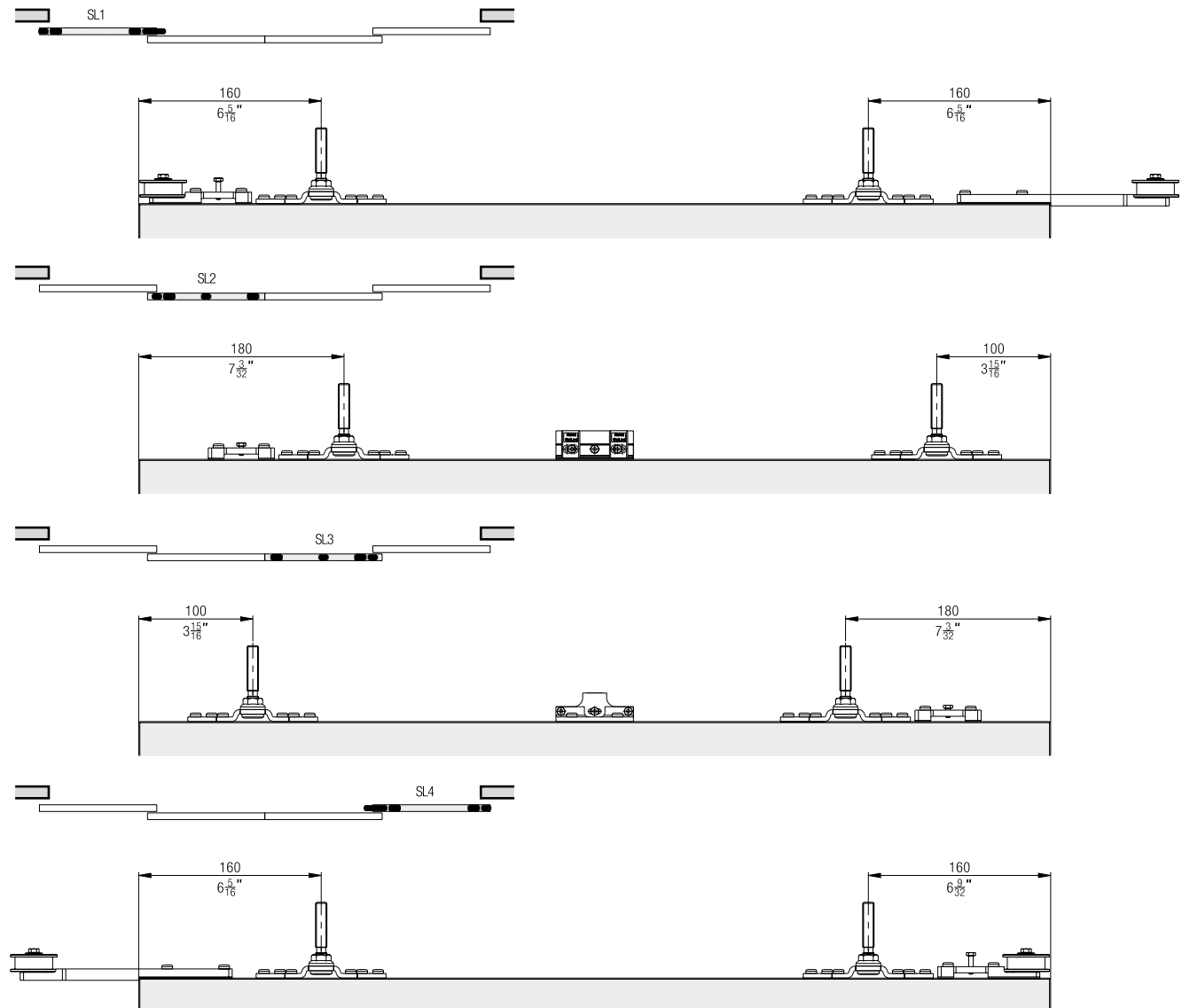


Sliding shutter width calculations



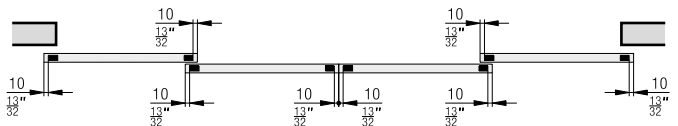
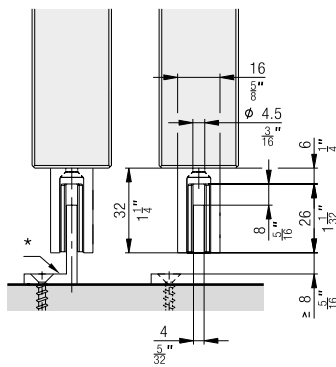
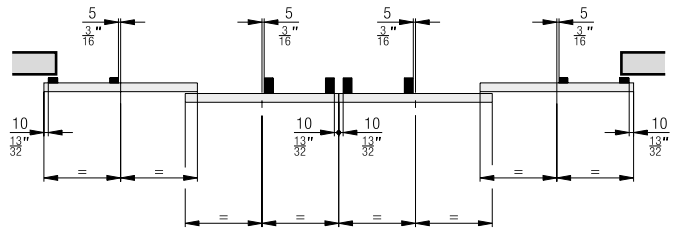
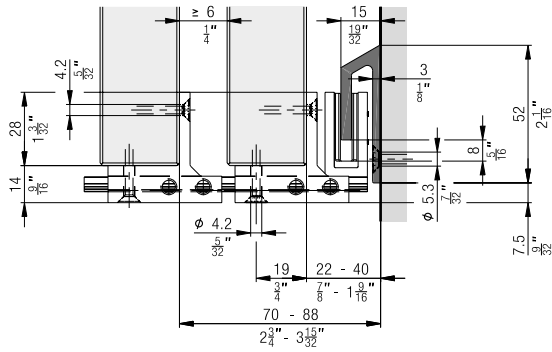
- AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track

### 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](http://www.hawa.com).

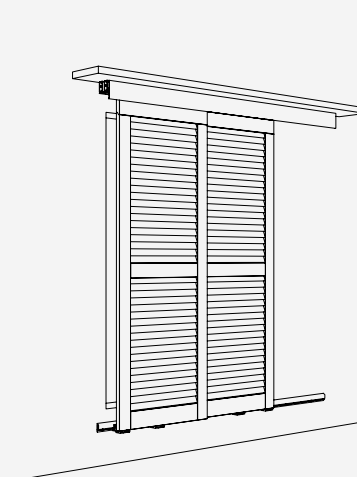
**Fitting for 2 wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

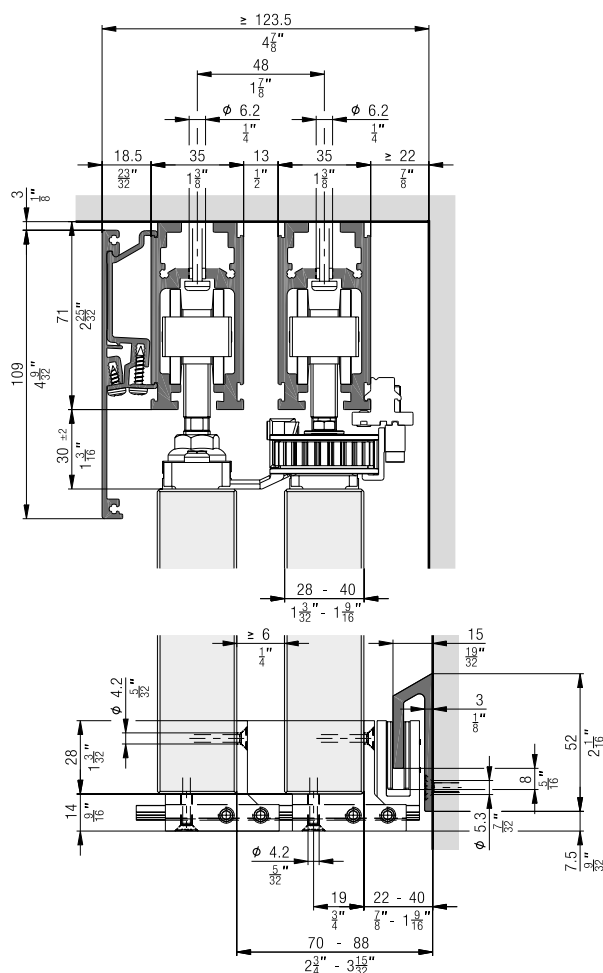
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	100 kg (220 lbs.)
	Max.	3200 mm (10' 5 31/32")
		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")



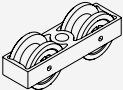
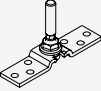
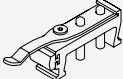

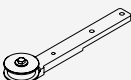


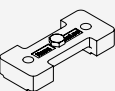

### Installation examples



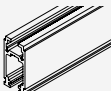
## Set for 2 sliding shutters up to 100 kg (220 lbs.)

	No.
Hawa Frontslide 100 A Telescopic, for 2 sliding shutters	25127


## Set consisting of:

		25127	No.
	Two-wheeled running gear, M10, plastic wheels	4	24552
	Top fixing plate, stainless steel, with hanger bolt M10	4	24564
	Track stop with adjustable retainer	2	24834
	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

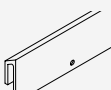
## Running tracks

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


## Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


## Guide tracks

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

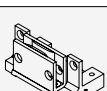
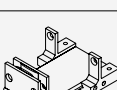

## Panels

		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

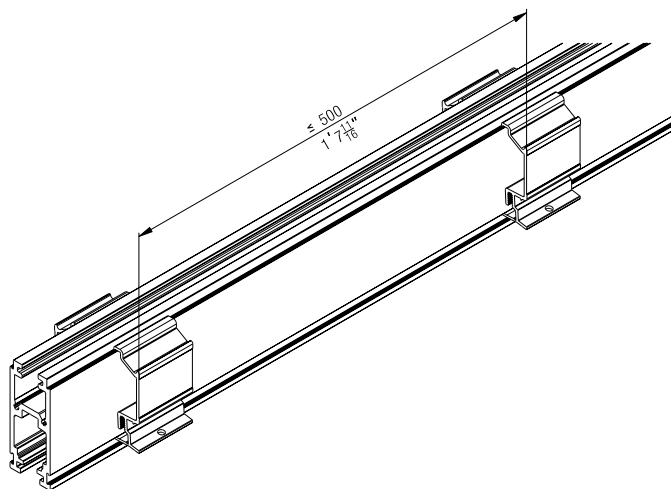
## Panel attachment components

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

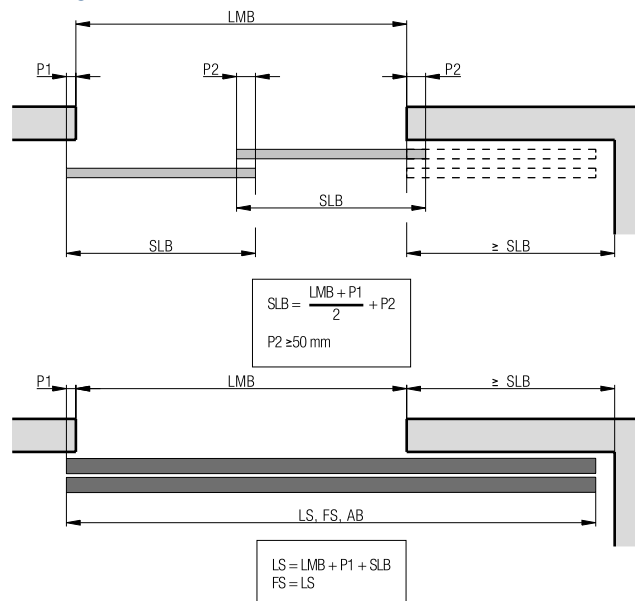
## Guides

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

### Panel attachment component installation

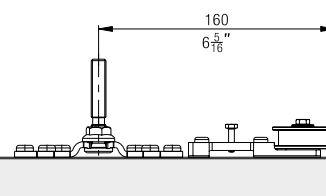
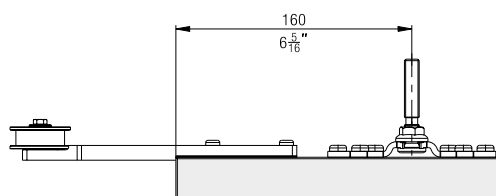
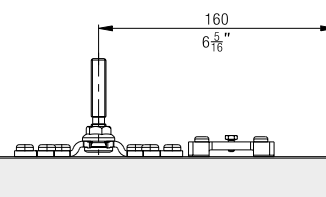
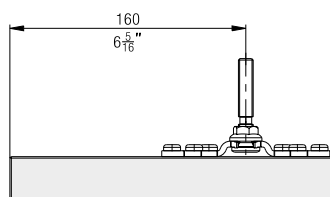


### Sliding shutter width calculations

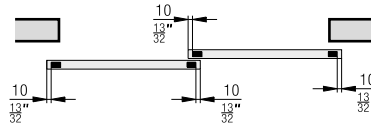
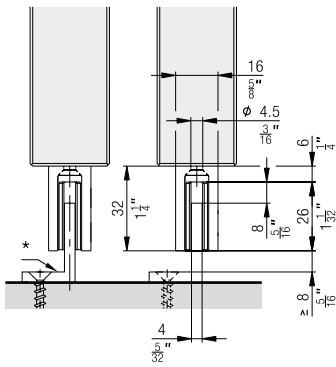
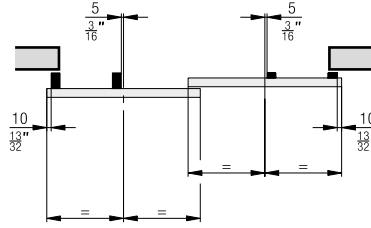
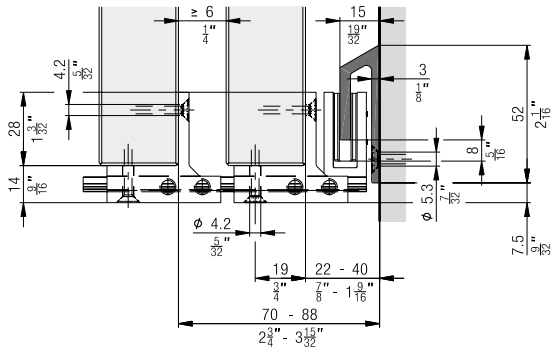


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### 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](http://www.hawa.com).

**Fitting for 3 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

- **Security**

The shutters withstand even stormy winds,  
both open and closed

## Technical specifications



Max. 100 kg (220 lbs.)



Max. 3200 mm (10' 5 31/32")

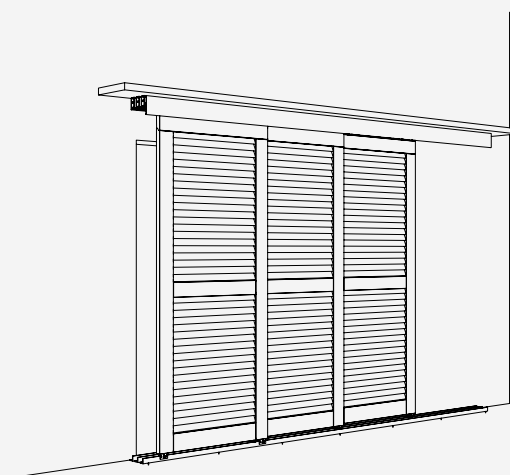


600–1200 mm (1' 11 5/8" to 3' 11 1/4")

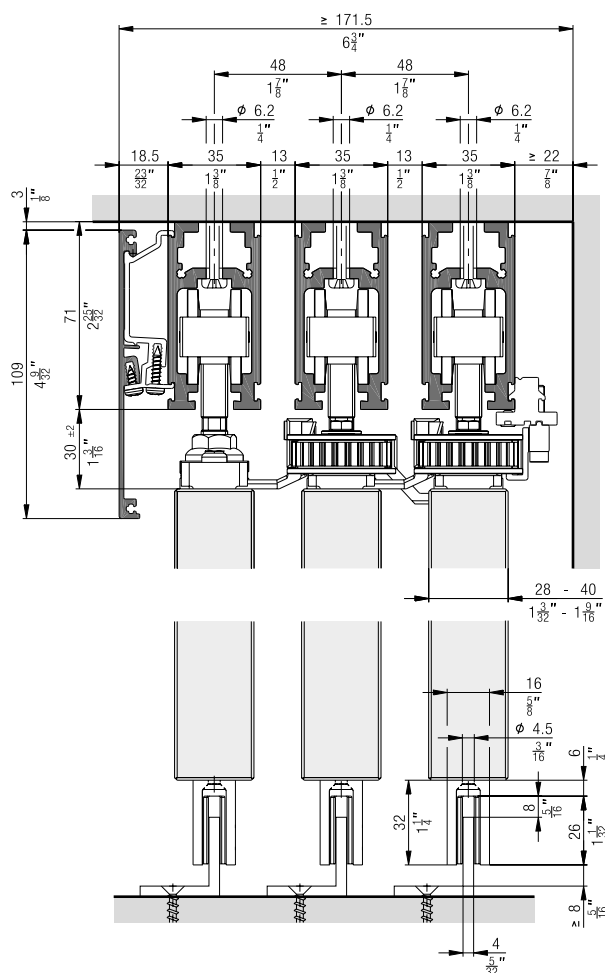
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



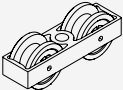
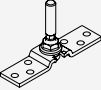
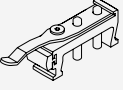

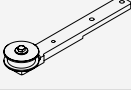



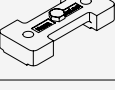

## Installation examples



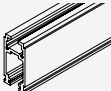
**Set for 3 sliding shutters up to 100 kg (220 lbs.)**

	No.
Hawa Frontslide 100 A Telescopic 3, for 3 sliding shutters	25128


**Set consisting of:**

		25128	No.
	Two-wheeled running gear, M10, plastic wheels	6	24552
	Top fixing plate, stainless steel, with hanger bolt M10	6	24564
	Track stop with adjustable retainer	2	24834
	Toothed belt clamp	1	25059
	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
	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

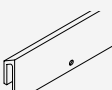
**Running tracks**

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


**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

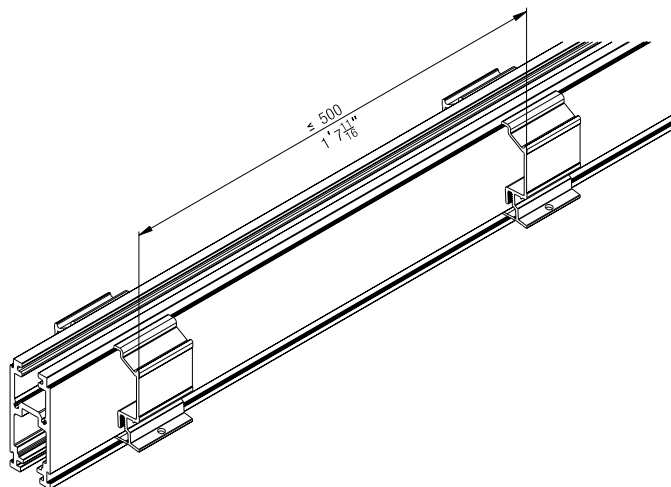
**Panel attachment components**

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

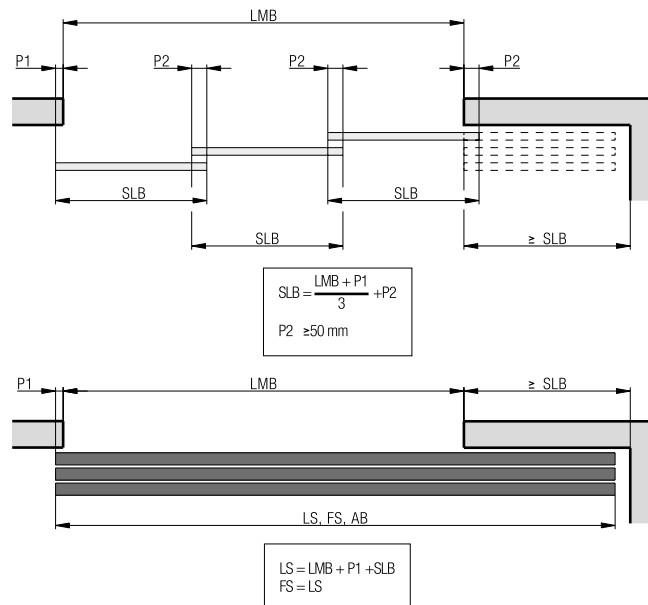
**Guides**

		No.
	Guide slider, for screw fixing	24542

### Panel attachment component installation

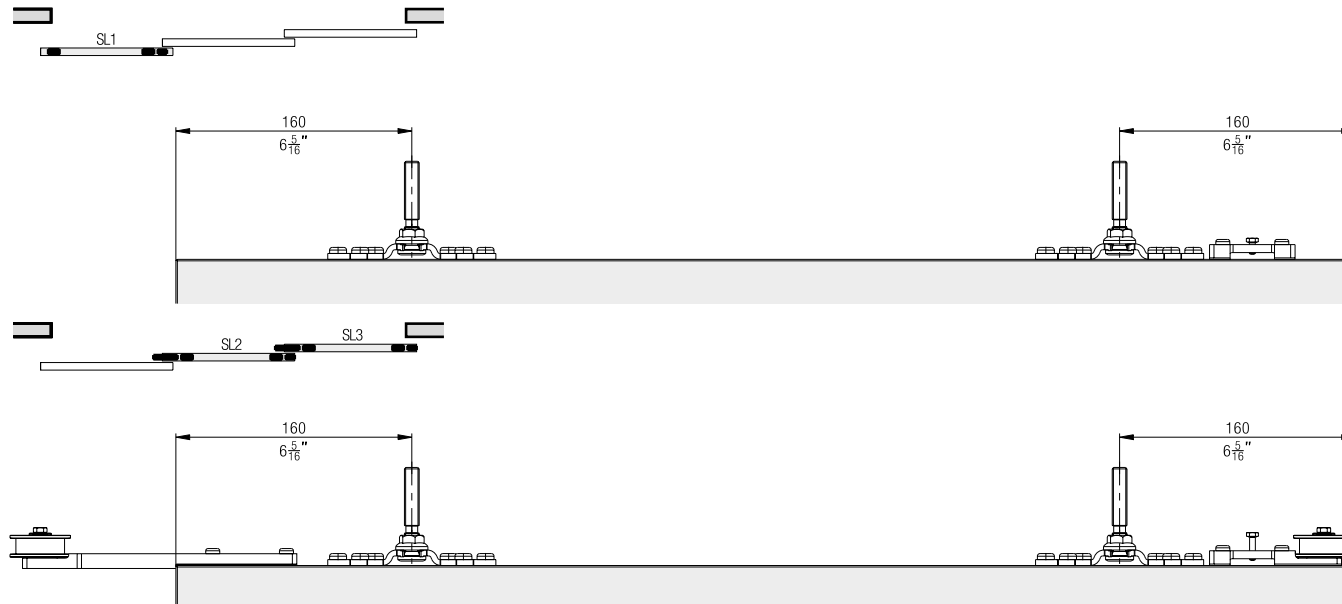


### Sliding shutter width calculations



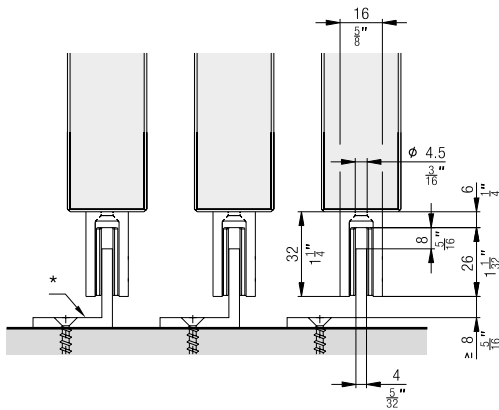
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### Suspension points

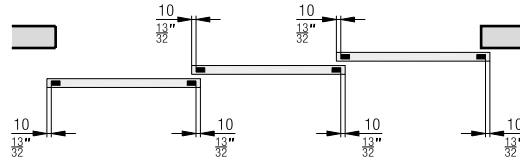




## Guides



\* 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](http://www.hawa.com).

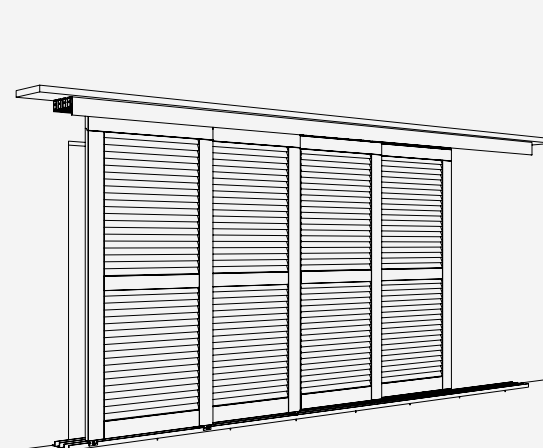
**Fitting for 4 wooden or metal shutters up to 100 kg (220 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

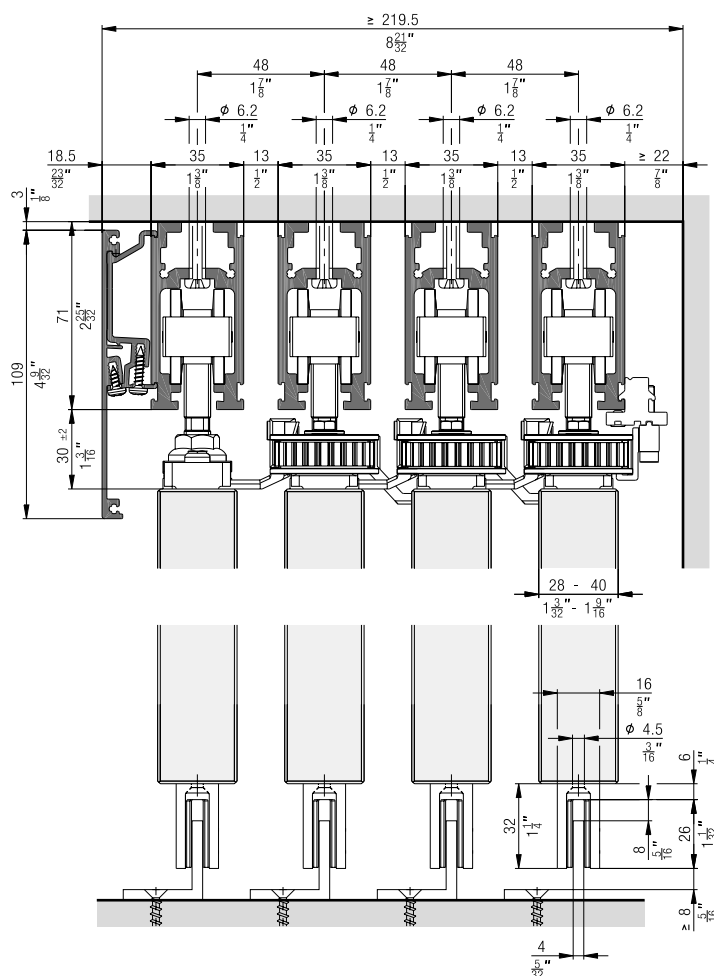
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	100 kg (220 lbs.)
	Max.	3200 mm (10' 5 31/32")
		600–1200 mm (1' 11 5/8" to 3' 11 1/4") (Max. shutter area 3.84 m <sup>2</sup> (41 ft <sup>2</sup> ))
		28–40 mm (1 3/32" to 1 9/16")



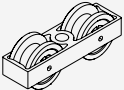
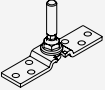
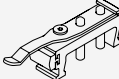

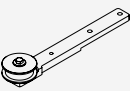



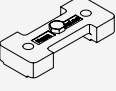

### Installation examples



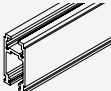
**Set for 4 sliding shutters up to 100 kg (220 lbs.)**

	No.
Hawa Frontslide 100 A Telescopic 4, for 4 sliding shutters	25129


**Set consisting of:**

		25129	No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
	Track stop with adjustable retainer	2	24834
	Toothed belt clamp	1	25059
	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

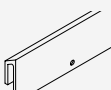
**Running tracks**

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


**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

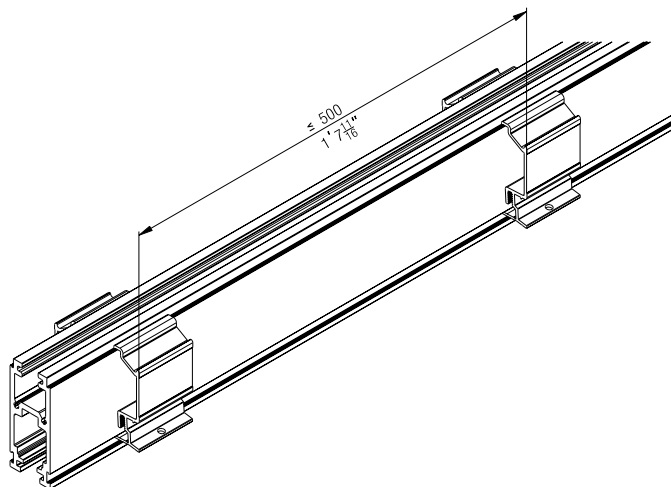
**Panel attachment components**

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

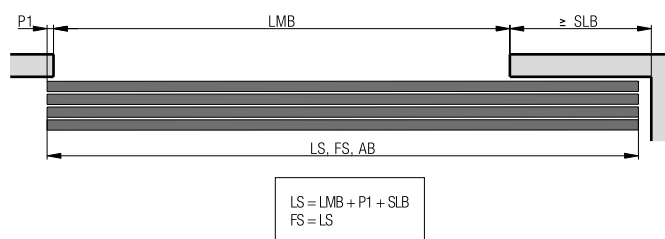
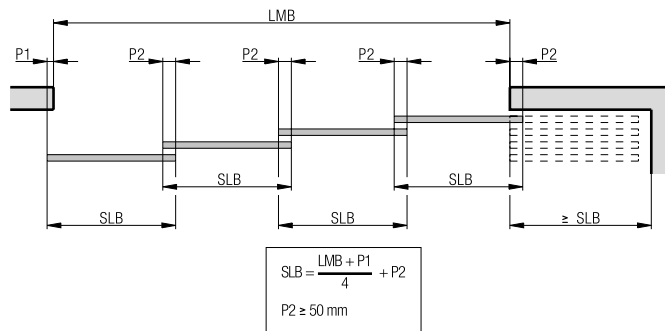
**Guides**

		No.
	Guide slider, for screw fixing	24542

## Panel attachment component installation

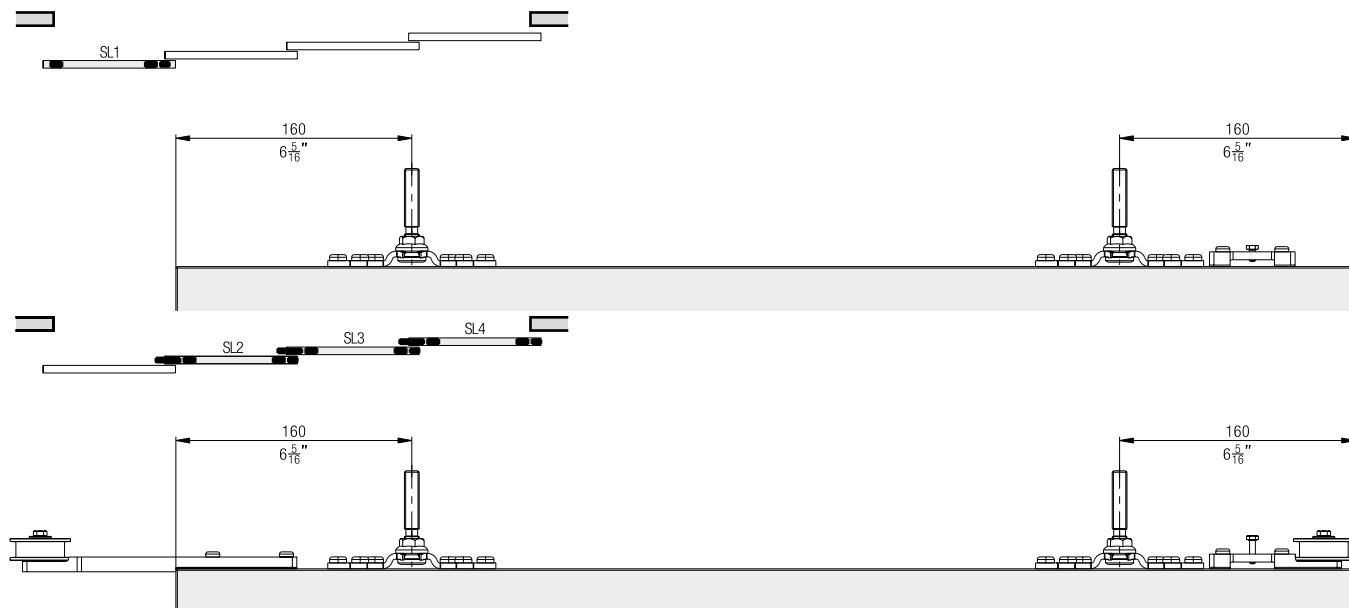


## Sliding shutter width calculations

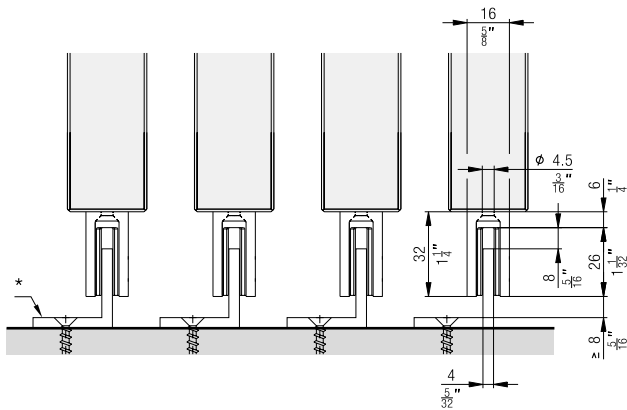


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

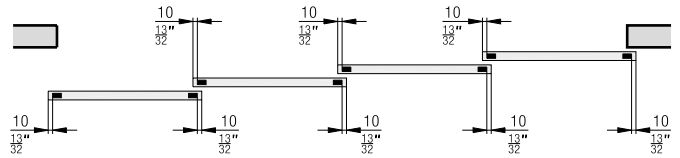
## Suspension points



## 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](http://www.hawa.com).

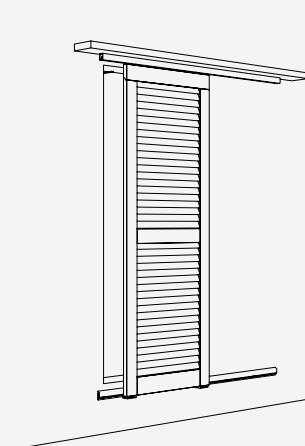
**Fitting for top-running wooden or metal shutters up to 100 kg (220 lbs.), with low running track. Ceiling or architrave mounting.**

### Product highlights

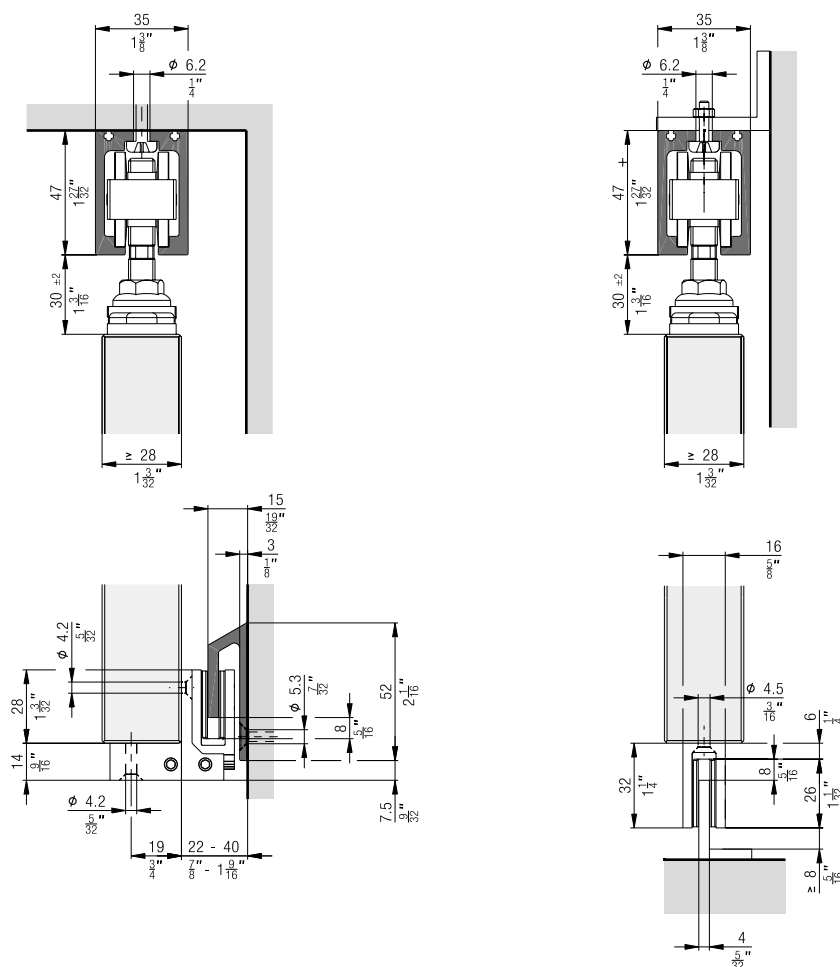
-  **Aesthetics** Minimal rail height
-  **Aesthetics** Attractive design solution for exciting and modern façade design

### Technical specifications

	Max.	100 kg (220 lbs.)
	Max.	3200 mm (10' 5 31/32")
		500–3750 mm (1' 7 11/16" to 12' 3 5/8") (Max. shutter area 9.6 m <sup>2</sup> (103 ft <sup>2</sup> ))
		≥28 mm (1 3/32")



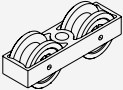
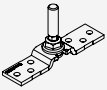
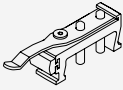
### Installation examples



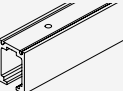
**Set for 1 sliding shutter up to 100 kg (220 lbs.)**

	No.
Hawa Frontslide 100 A, for 1 sliding shutter for lower top track	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

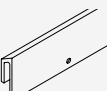
**Running tracks**

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

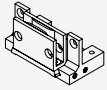
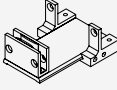

**Connecting pins for running tracks**

	No.
	Connecting bolts, 6-piece set
	17221

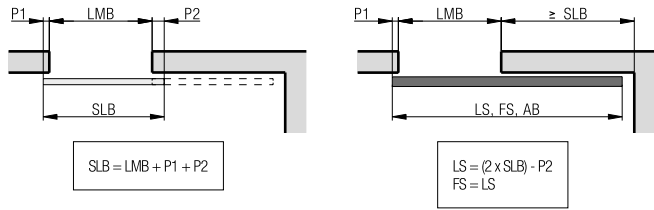
**Guide tracks**

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

**Guides**

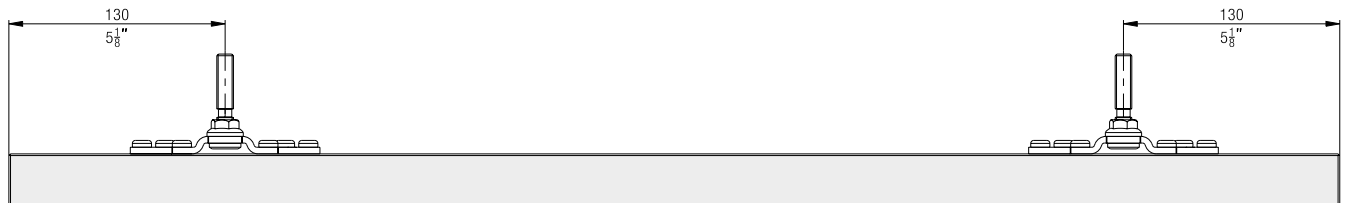
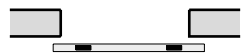
	No.
	Floor guide unit, short, for guide track
	24543
	Floor guide unit, long, for guide track
	24544
	Guide slider, for screw fixing
	24542

## Sliding shutter width calculation

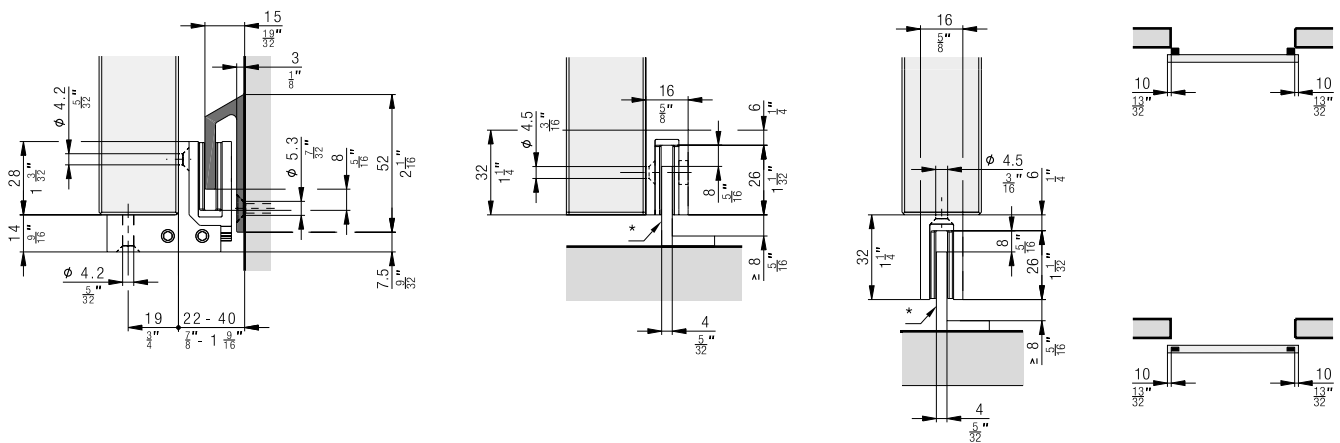


AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track

## 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)
- Wind resistance class overview from page 198

Further information about the product can be found on [www.hawa.com](http://www.hawa.com).



## 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



#### Security

Extremely robust sliding shutter that has been tested for 100,000 cycles  
High resistance to wind and corrosion

### Technical specifications



Max. 100 kg (220 lbs.)



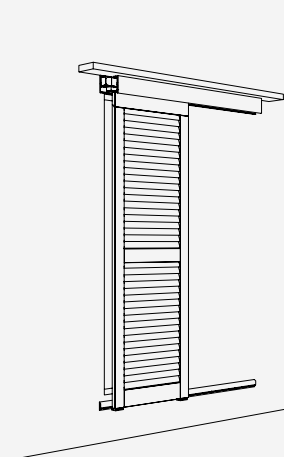
Max. 3200 mm (10' 5 31/32")



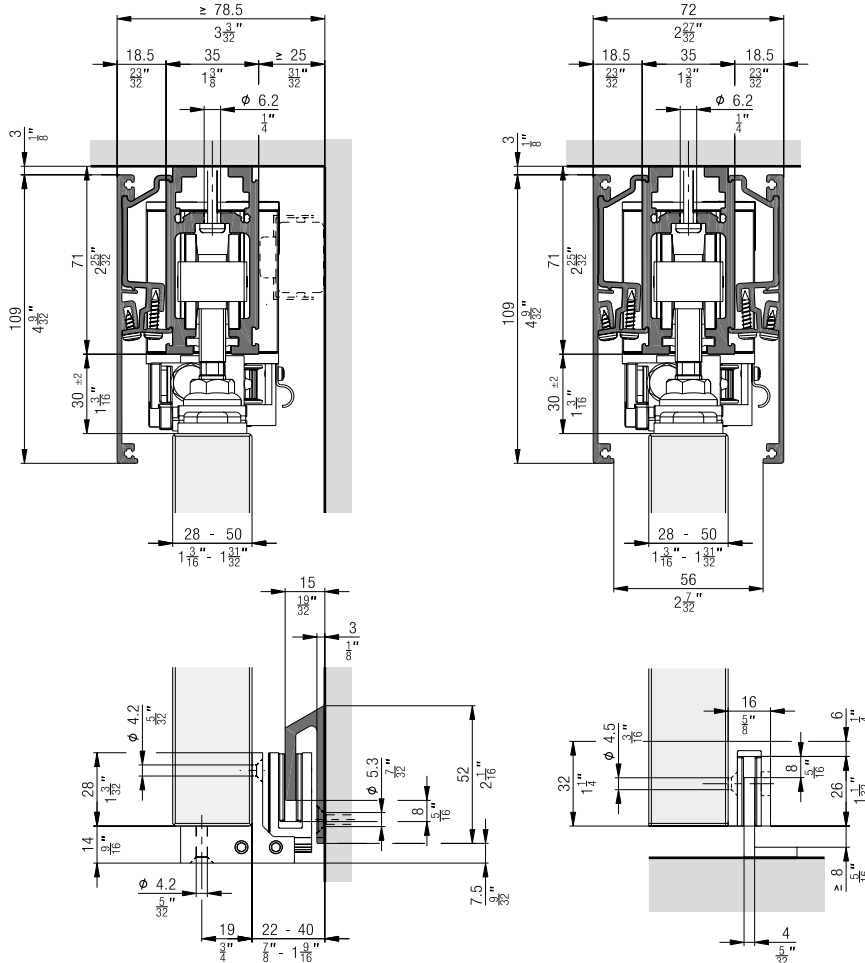
650–3750 mm (2' 1 19/32" to 12' 3 5/8")  
(Max. shutter area 6.24 m² (67 ft²))



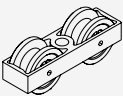
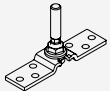
28–50 mm (1 3/32" to 1 31/32")




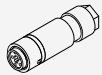

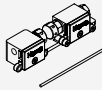

### Installation examples




**Set for 1 sliding shutter up to 100 kg**

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

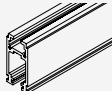
**Set Motronic 100 SMI**

		No.
Hawa Motronic 100 SMI for Hawa Frontslide 100 Matic, incl. control unit, toothed belt lock and pulley wheel		30521
		No.
<b>Set consisting of:</b>		30521
	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1 30317
	Wieland connector for Hawa Motronic 60/100/140 SMI	1 30277
	Pulley wheel for automatic mechanism	1 24792
	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

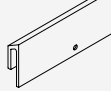
**Running tracks**

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


**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

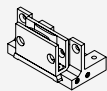
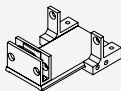

**Panels**

		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

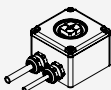

## Panel attachment components

		No.
	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
	Guide slider, for screw fixing	24542

## Start-up box

		No.
	Commissioning box	23789
	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:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	70 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided
Mains isolation device:	Customer-provided

### Type plate

**Hawa Motronic 100**  I- →

Artikel-Nr. 30317

Kontakt [www.hawa.com](http://www.hawa.com)

Charge 20ZZ/YYYYYY

Key-ID 0016XXXXXX, Bj: 20ZZ



Antriebskraft max. 100 N, IP54

100-240 VAC, 50/60 Hz, 30 W

Geschwindigkeit max. 7 cm/s

Betriebstemp. -20 °C bis +60 °C

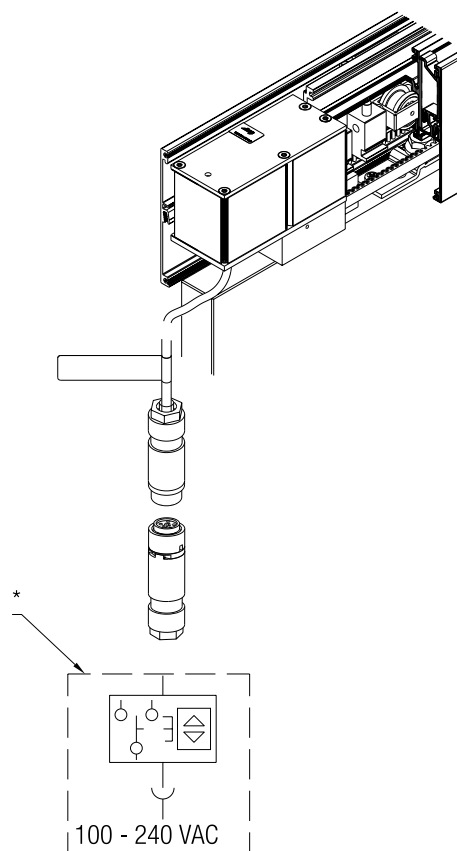
**Hawa**

I+ →

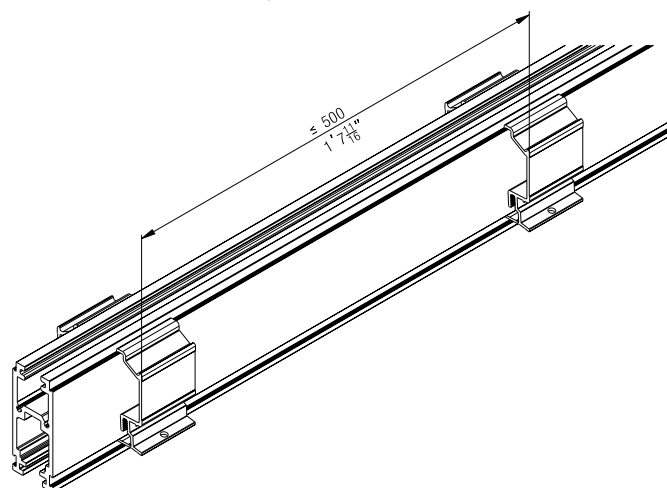
### Actuation and operation of the system

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



\* to be provided by customer

### Panel attachment component installation





**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.**

### Product highlights



#### Comfort

Automated system with building control interface  
Optimized individual use of daylight



#### Productivity

Increases energy efficiency in the building

### Technical specifications



Max. 80 kg (176 lbs.)



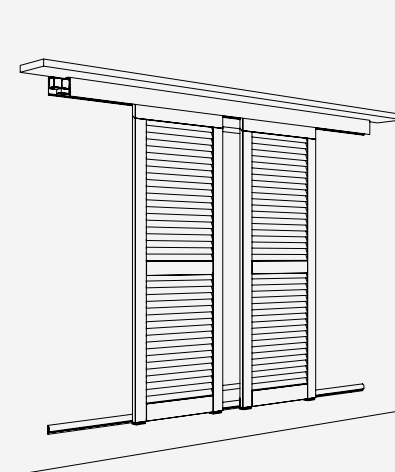
Max. 3200 mm (10' 5 31/32")



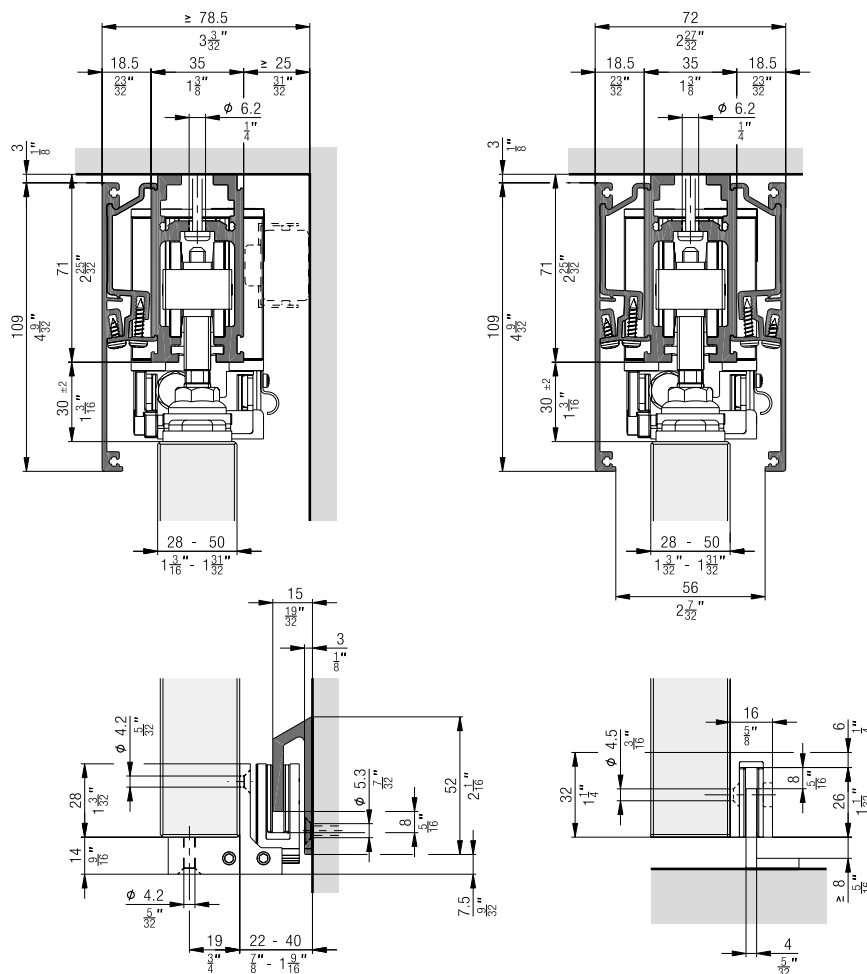
600–1875 mm (1' 11 5/8" to 6' 1 13/16")  
(Max. shutter area 6.24 m<sup>2</sup> (67 ft<sup>2</sup>))



28–50 mm (1 3/32" to 1 31/32")



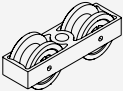
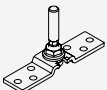
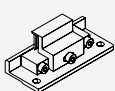
### Installation examples



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

	No.
Hawa Frontslide 100 Matic Symmetric 2, for 2 sliding shutters	25139




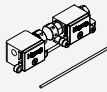

**Set consisting of:**

		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

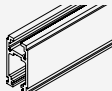
**Set consisting of:**

		30521	No.
	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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.
 Running track, aluminum, anodized, pre-drilled	3500 (11' 5 25/32")	24840
	6000 (19' 8 7/32")	24797
	cut to size	24798


**Connecting pins for running tracks**

	No.
 Connecting bolts, 6-piece set	17221


**Guide tracks**

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

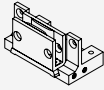
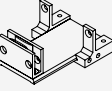

**Panels**

	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

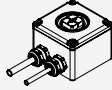

**Panel attachment components**

		No.
	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
	Guide slider, for screw fixing	24542

**Start-up box**

		No.
	Commissioning box	23789
	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:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	70 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided
Mains isolation device:	Customer-provided

### Type plate

**Hawa Motronic 100**  I- →

Artikel-Nr. 30317

Kontakt [www.hawa.com](http://www.hawa.com)

Charge 20ZZ/YYYYYY

Key-ID 0016XXXXXX, Bj: 20ZZ


Antriebskraft max. 100 N, IP54

100-240 VAC, 50/60 Hz, 30 W

Geschwindigkeit max. 7 cm/s

Betriebstemp. -20 °C bis +60 °C

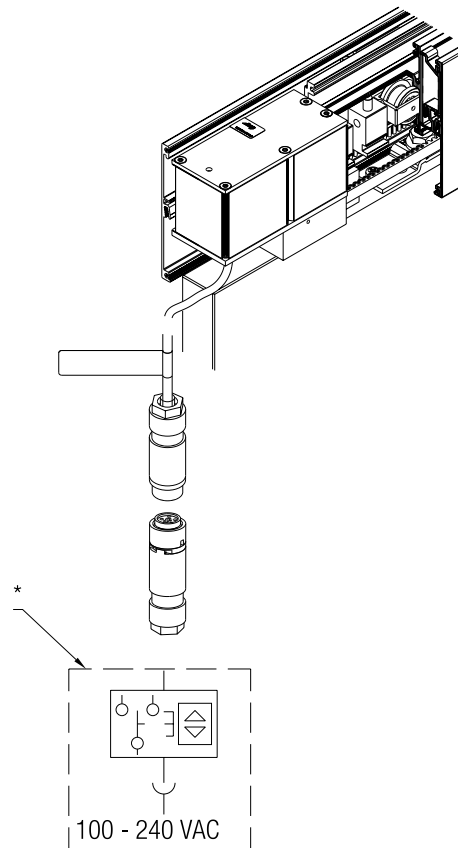
**Hawa**



I+ →

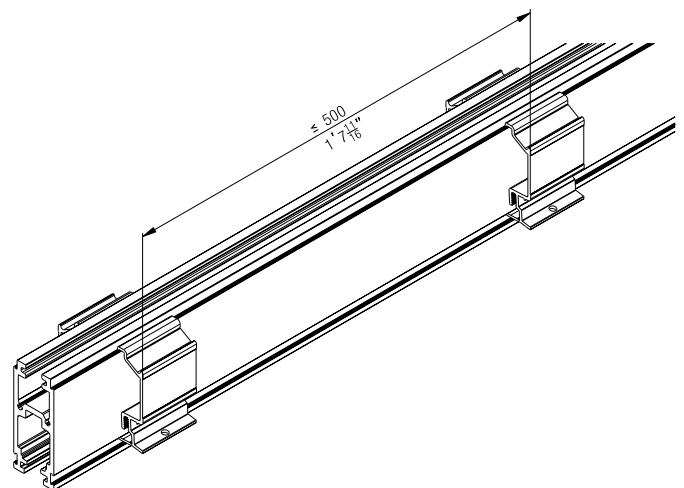
### Actuation and operation of the system

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

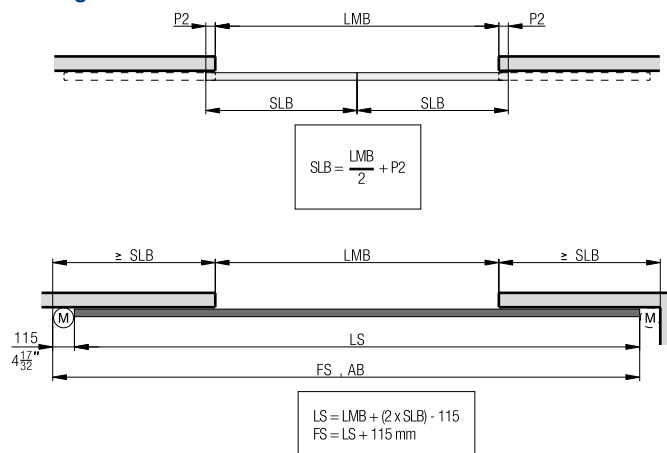


\* to be provided by customer

### Panel attachment component installation

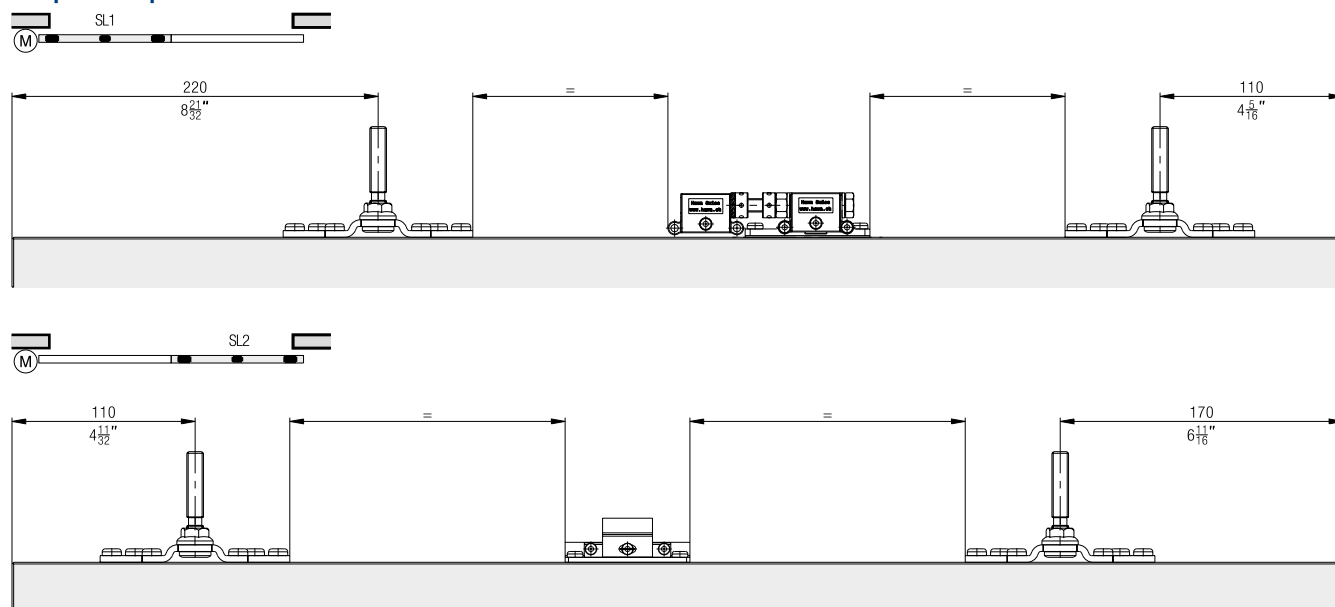


## Sliding shutter width calculations

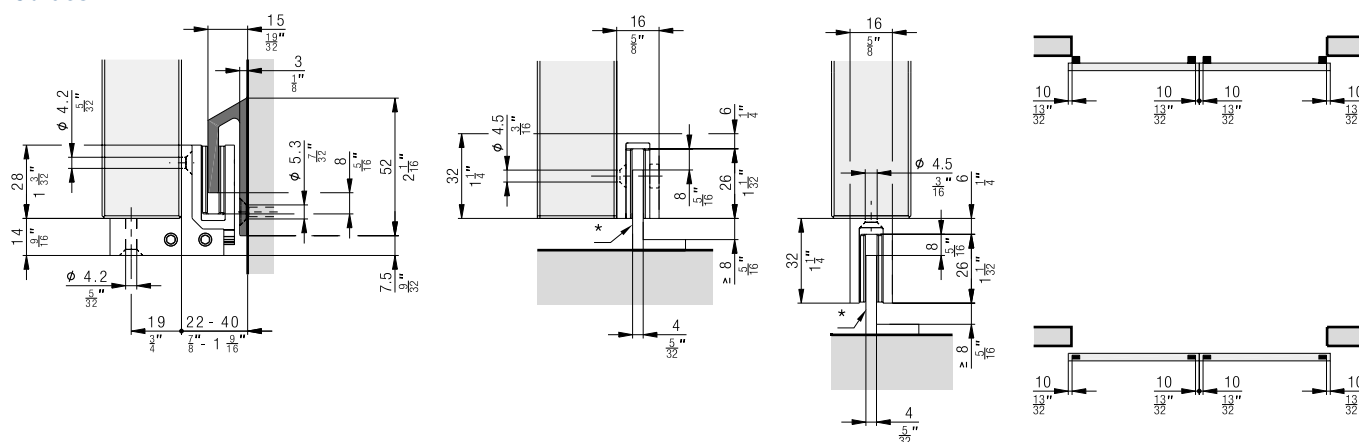


AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track  
M = Minimum space for drive unit

## Suspension points



## 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](http://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



Max. 70 kg (154 lbs.)



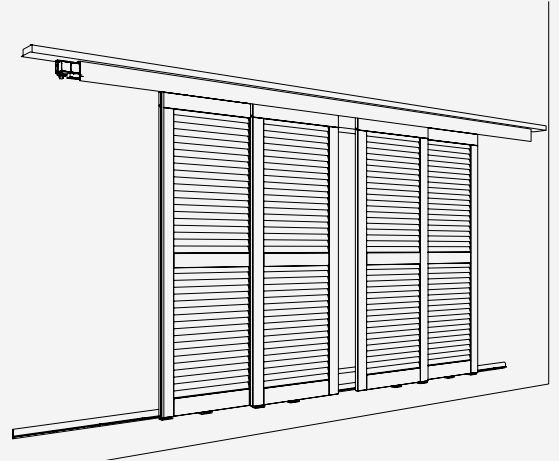
Max. 3200 mm (10' 5 31/32")



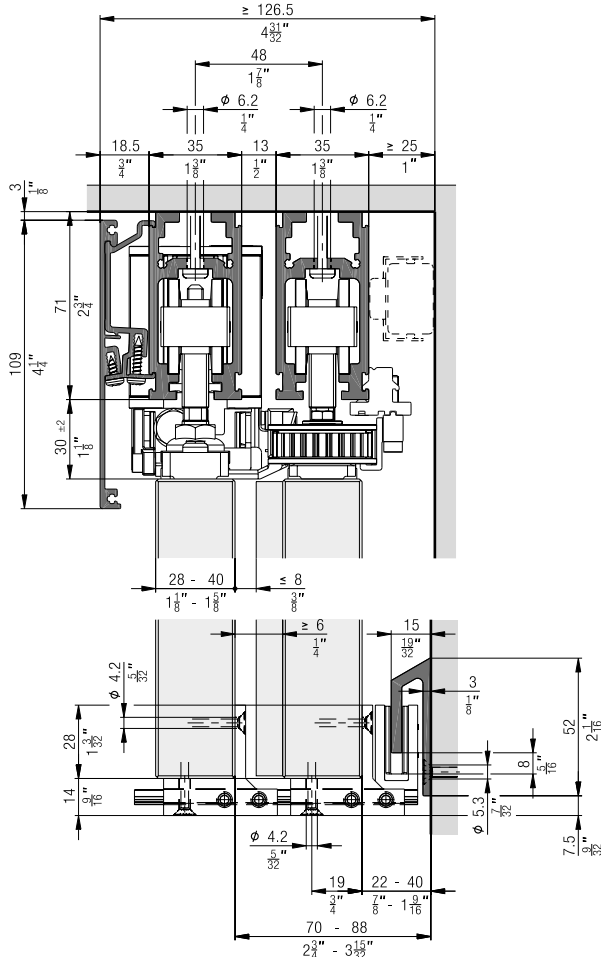
650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



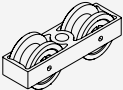
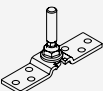
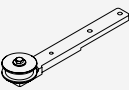
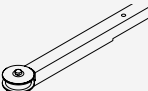

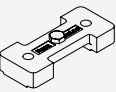
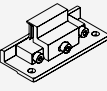




### Installation examples



**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 of:**

		25140	No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
	Guide pulley wheel, with fixing plate, long	1	20139
	Guide pulley wheel, with fixing plate, extra long	1	25314
	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

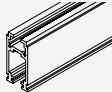
**Set consisting of:**

		30521	No.
	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

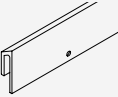
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24840
	6000 (19' 8 7/32")	24797
	cut to size	24798


### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


### Guide tracks

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

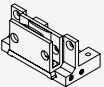
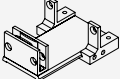

### Panels

		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

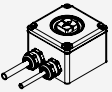

### Panel attachment components

		No.
	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
	Guide slider, for screw fixing	24542

### Start-up box


		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 100 SMI

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

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

### Type plate

**Hawa Motronic 100**  I- →

Artikel-Nr. 30317

Kontakt [www.hawa.com](http://www.hawa.com)

Charge 20ZZ/YYYYYY

Key-ID 0016XXXXXX, Bj: 20ZZ



Antriebskraft max. 100 N, IP54

100-240 VAC, 50/60 Hz, 30 W

Geschwindigkeit max. 7 cm/s

Betriebstemp. -20 °C bis +60 °C

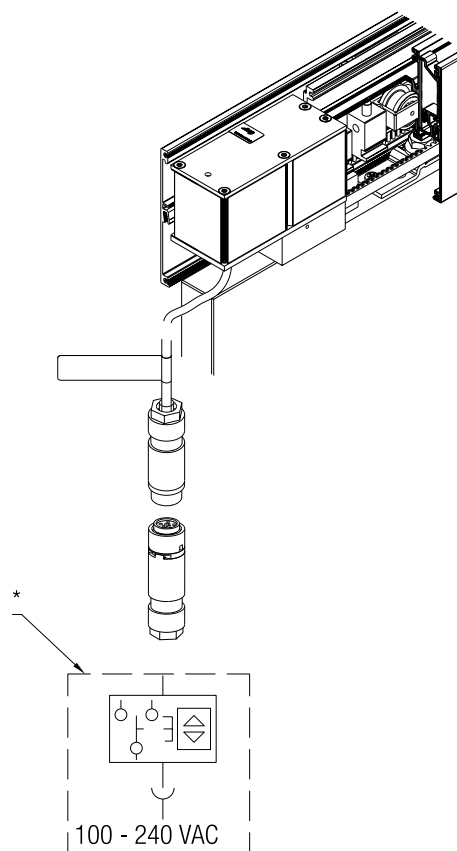
**Hawa**

I+ →

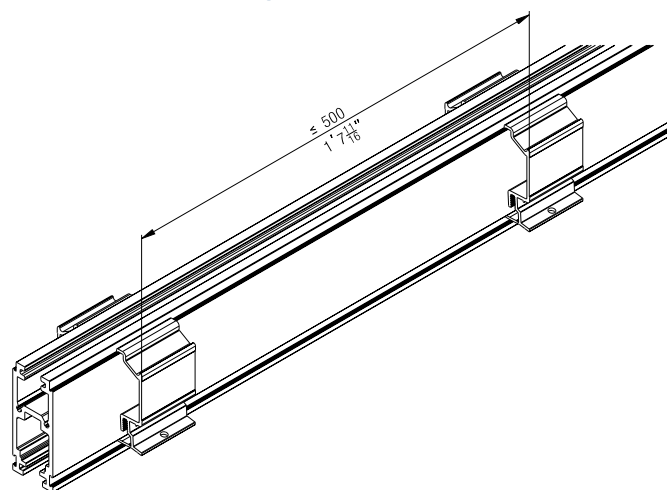
### Actuation and operation of the system

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

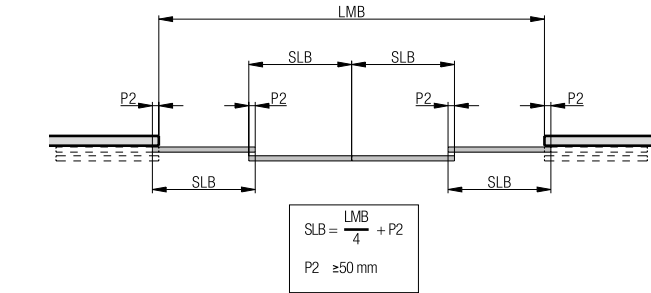


\* to be provided by customer

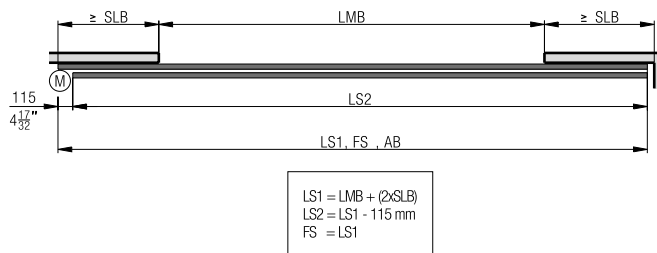
### Panel attachment component installation



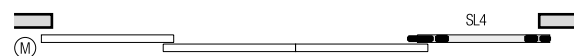
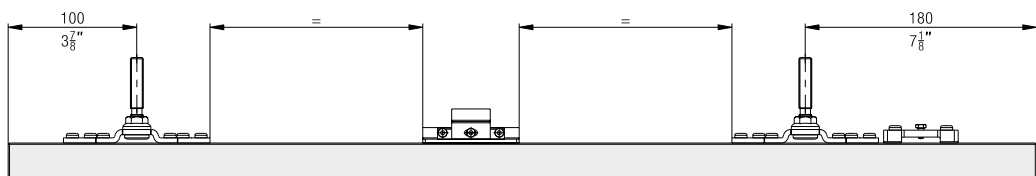
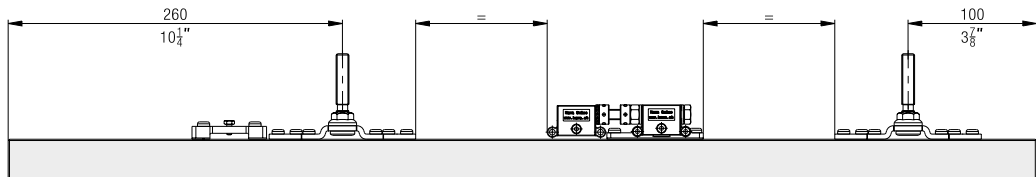
### Sliding shutter width calculations



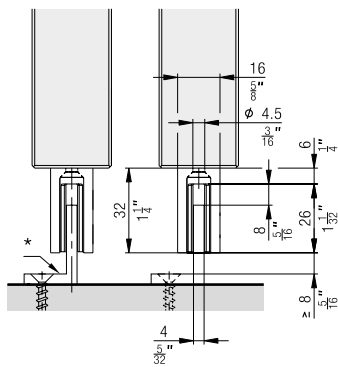
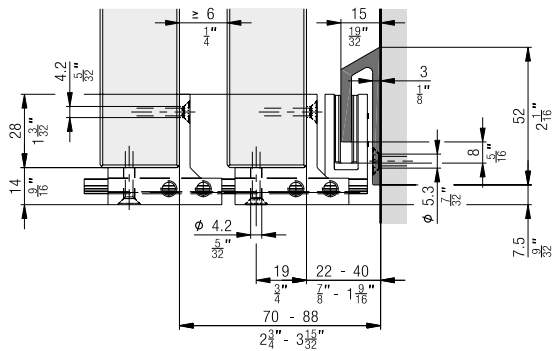
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



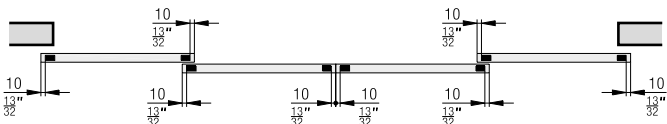
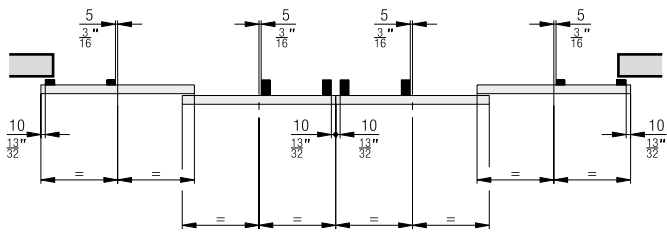
### Suspension points



## 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](http://www.hawa.com).





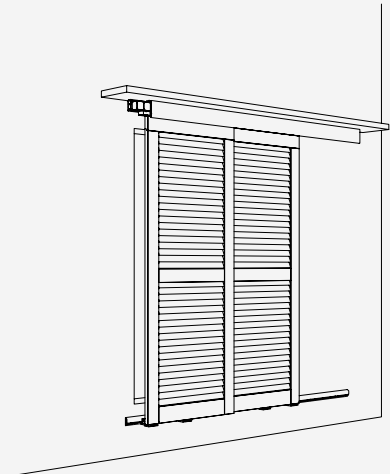
**Automated fitting with SMI interface for 2 wooden or metal shutters up to 90 kg (198 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

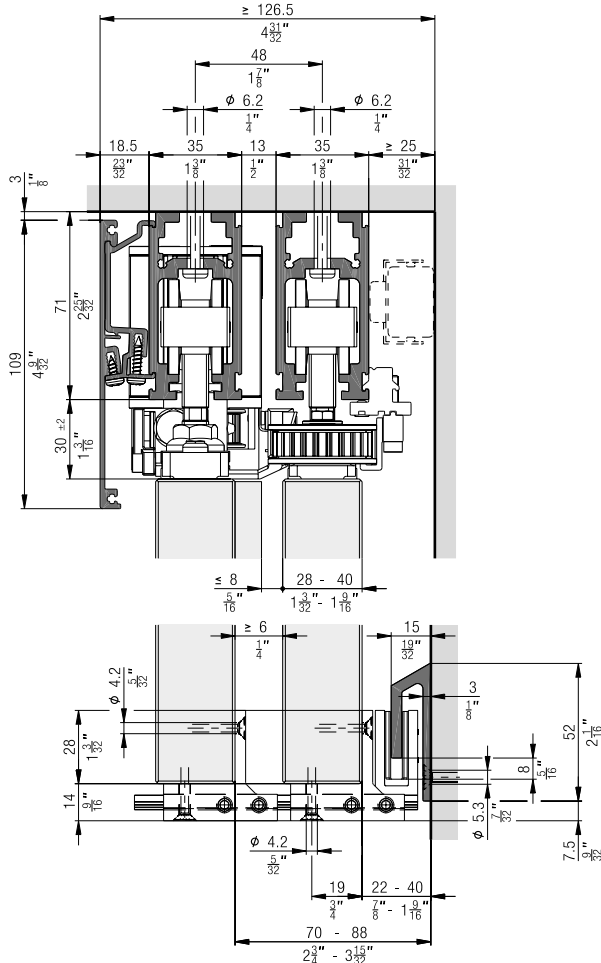
-  **Comfort** Automated system with building control interface  
Optimized individual use of daylight
-  **Aesthetics** Convertible, living façade with interesting design features

### Technical specifications

-  Max. 90 kg (198 lbs.)
-  Max. 3200 mm (10' 5 31/32")
-  650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))
-  28–40 mm (1 3/32" to 1 9/16")



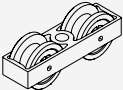
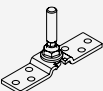

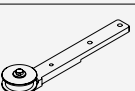
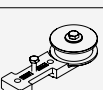

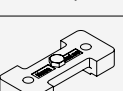

### Installation examples



**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:**

		25141	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

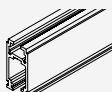
**Set consisting of:**

		30521	No.
	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

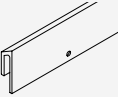
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24840
	6000 (19' 8 7/32")	24797
	cut to size	24798


### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


### Guide tracks

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

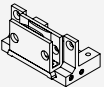
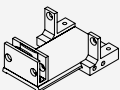

### Panels

		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

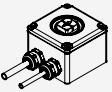

### Panel attachment components

		No.
	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
	Guide slider, for screw fixing	24542

### Start-up box




		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 100 SMI

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

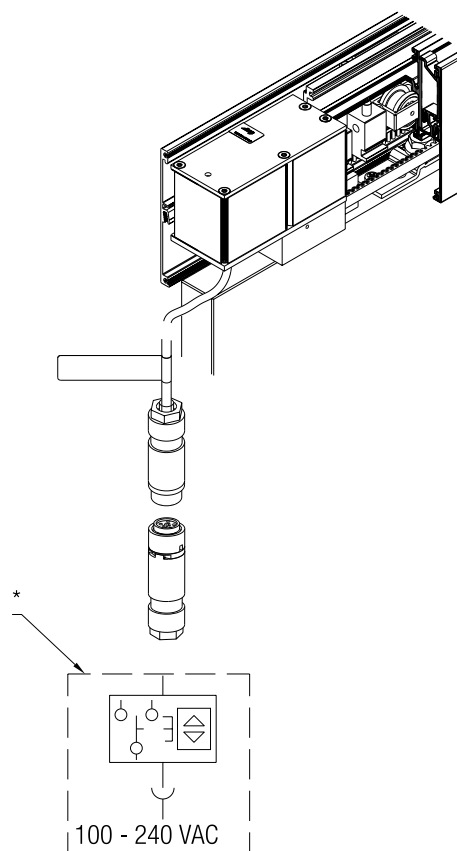
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	70 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

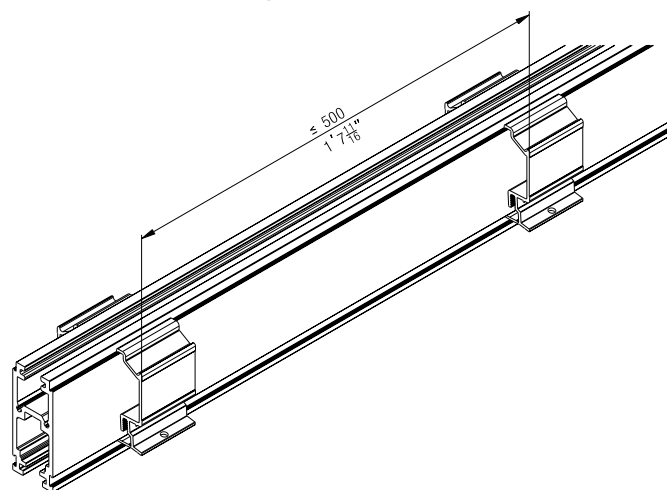
<b>Hawa Motronic 100</b>			I- →
Artikel-Nr.	30317	 	I+ →
Kontakt	www.hawa.com		
Charge	20ZZ/YYYYYY		
Key-ID	0016XXXXXX, Bj: 20ZZ		
Antriebskraft max.	100 N, IP54		
100-240 VAC, 50/60 Hz, 30 W			
Geschwindigkeit max. 7 cm/s			
Betriebstemp. -20 °C bis +60 °C			

### Actuation and operation of the system

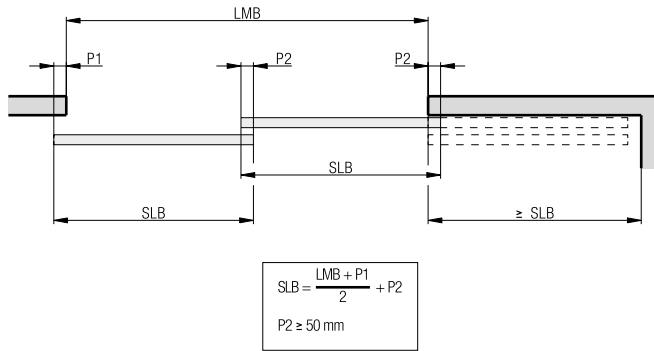
The system can be operated with normal commercial sun blind switches.



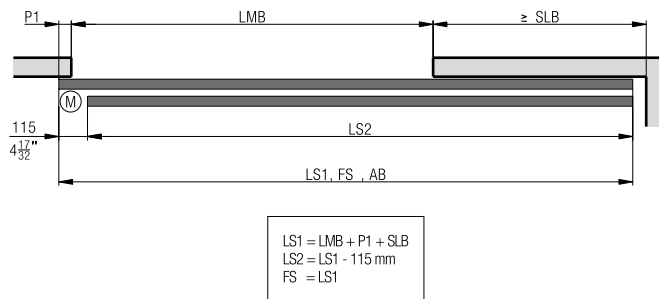
### Panel attachment component installation



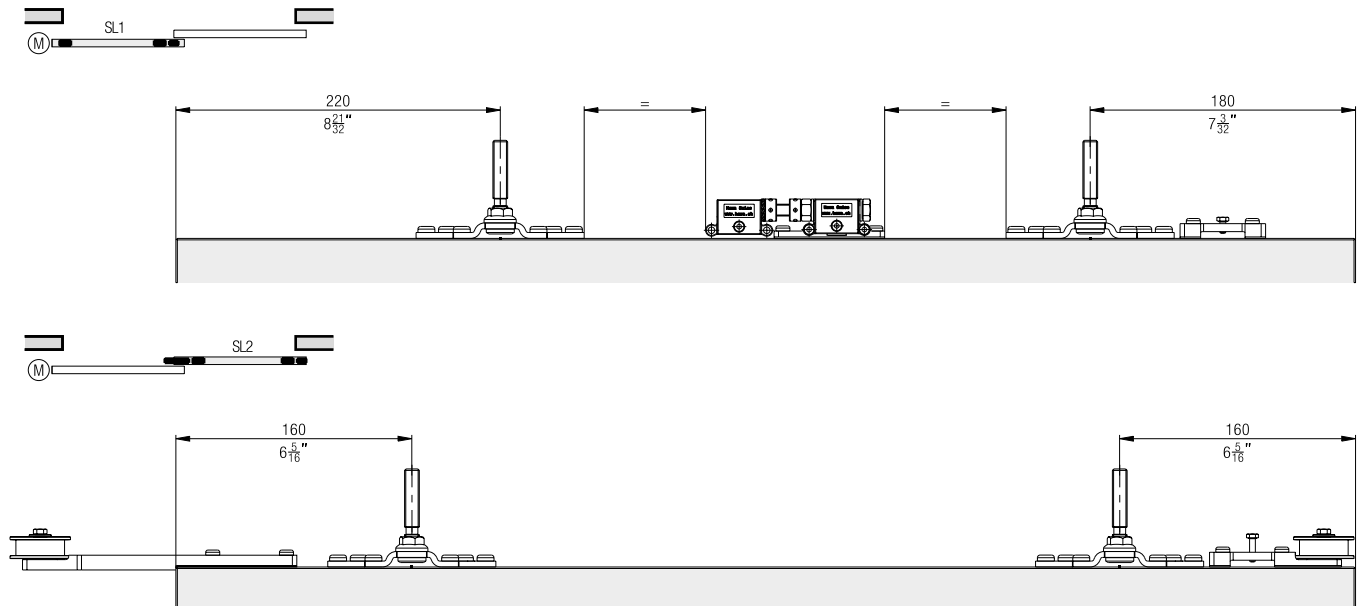
### Sliding shutter width calculations



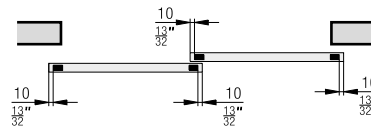
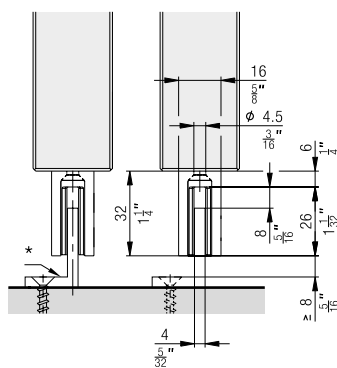
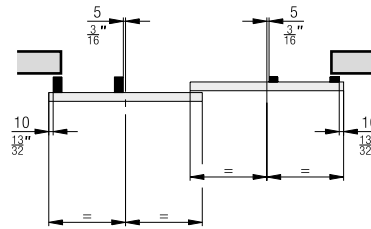
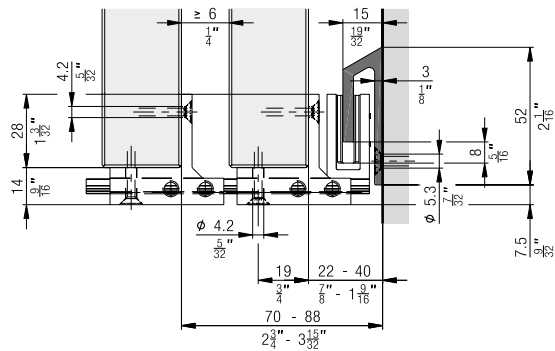
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



### 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](http://www.hawa.com).

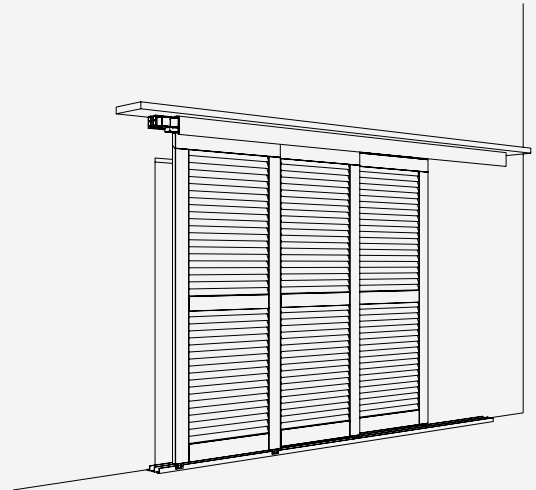
**Automated fitting with SMI interface for 3 wooden or metal shutters up to 80 kg (176 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

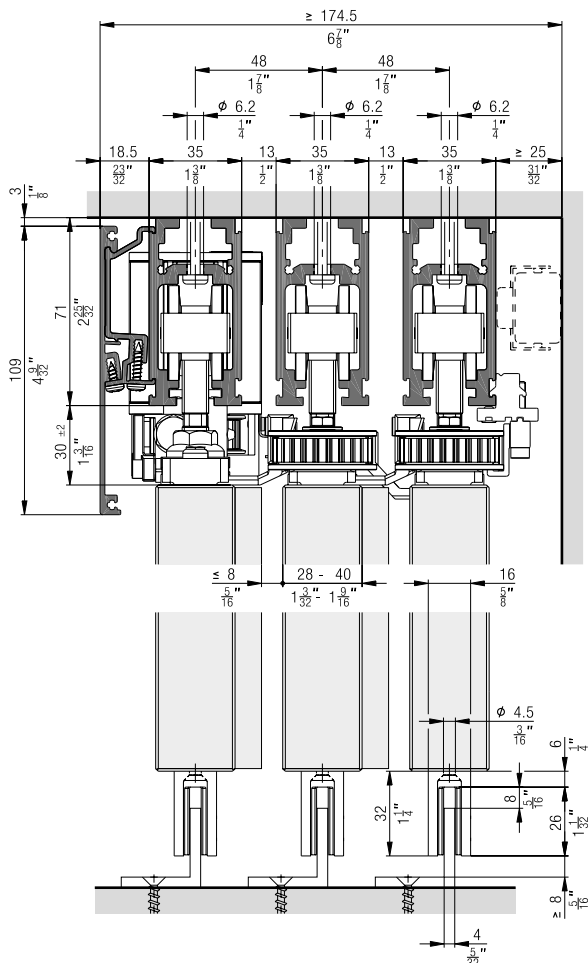
-  **Comfort** Automated system with building control interface  
Optimized individual use of daylight
-  **Aesthetics** Convertible, living façade with interesting design features

### Technical specifications

-  Max. 80 kg (176 lbs.)
-  Max. 3200 mm (10' 5 31/32")
-  650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))
-  28–40 mm (1 3/32" to 1 9/16")



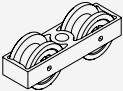
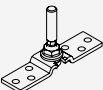

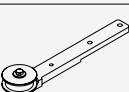



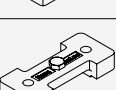

### Installation examples



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

	No.
Hawa Frontslide 100 Matic Telescopic 3, for 3 sliding shutters	25142




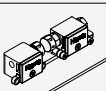

**Set consisting of:**

		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
	Guide pulley wheel, with fixing plate, long	2	20139
	Guide pulley wheel, with fixing plate, short	2	20140
	Driver, wide	2	20141
	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

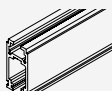
**Set consisting of:**

		30521	No.
	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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**

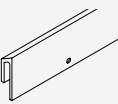
	mm (inch)	No.
	3500 (11' 5 25/32")	24840
	6000 (19' 8 7/32")	24797
	cut to size	24798



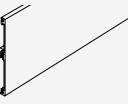
### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


### Guide tracks

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

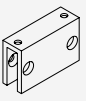
### Panels

		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

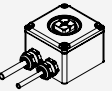

### Panel attachment components

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

### Guides

		No.
	Guide slider, for screw fixing	24542

### Start-up box


		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 100 SMI

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

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

### Type plate

**Hawa Motronic 100**  I- →

Artikel-Nr. 30317

Kontakt [www.hawa.com](http://www.hawa.com)

Charge 20ZZ/YYYYYY

Key-ID 0016XXXXXX, Bj: 20ZZ



Antriebskraft max. 100 N, IP54

100-240 VAC, 50/60 Hz, 30 W

Geschwindigkeit max. 7 cm/s

Betriebstemp. -20 °C bis +60 °C

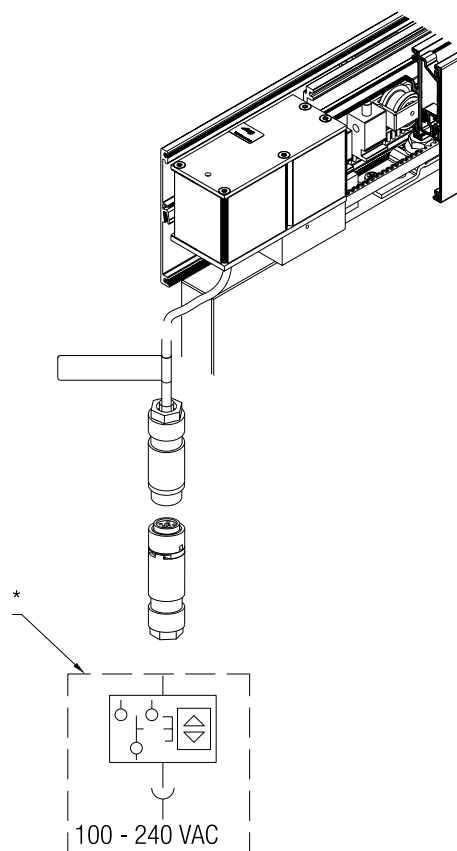
**Hawa**

I+ →

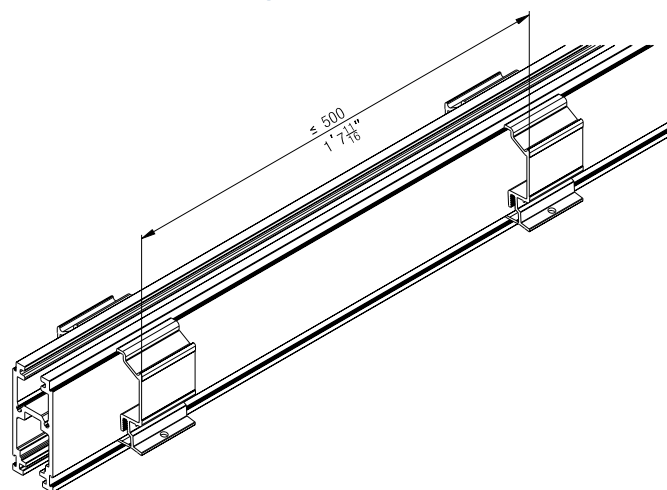
### Actuation and operation of the system

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

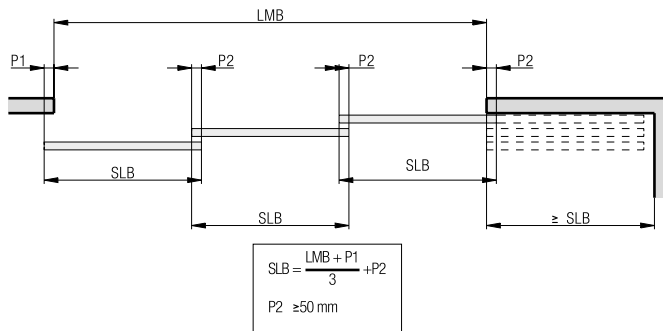


\* to be provided by customer

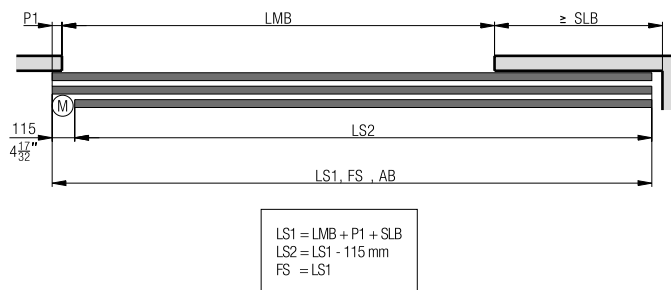
### Panel attachment component installation



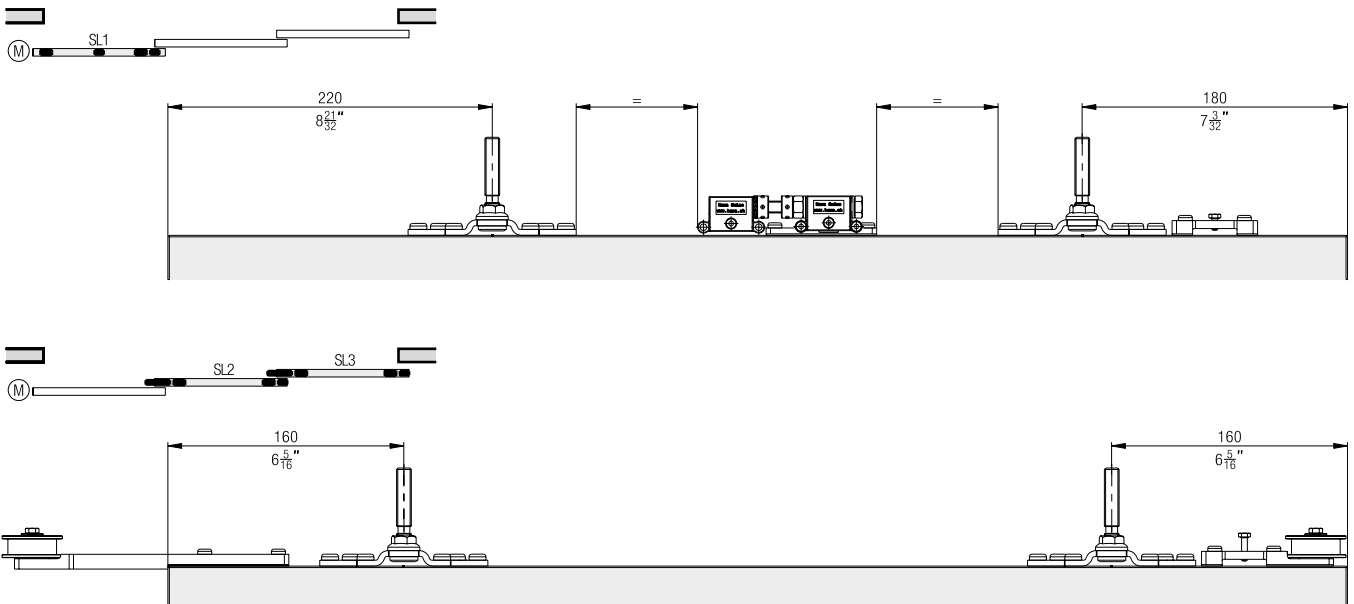
### Sliding shutter width calculations



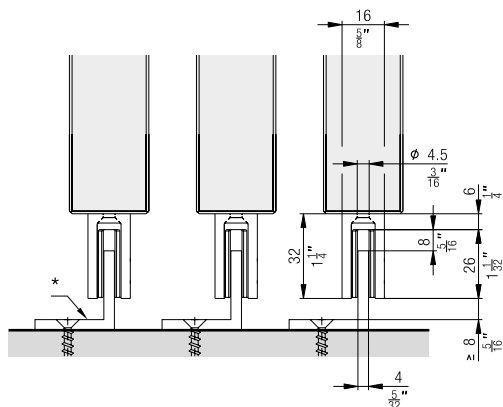
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



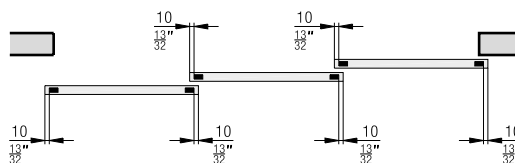
### Suspension points



## 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](http://www.hawa.com).

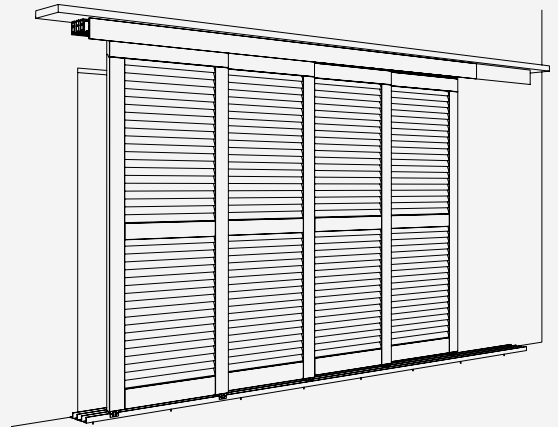
**Automated fitting with SMI interface for 4 wooden or metal shutters up to 70 kg (154 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

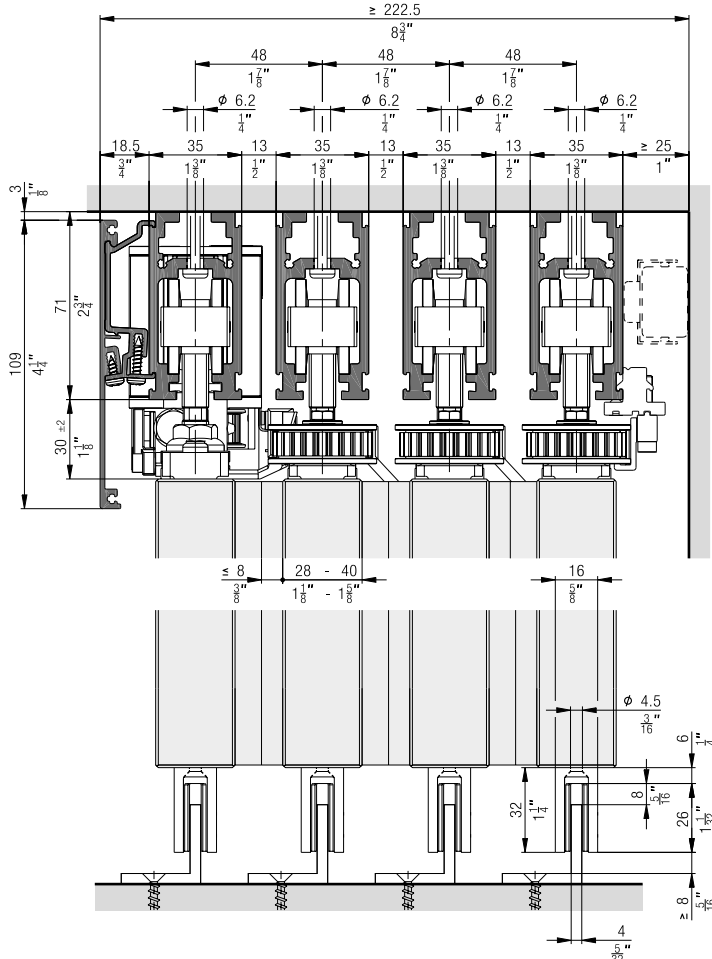
-  **Comfort** Automated system with building control interface  
Optimized individual use of daylight
-  **Aesthetics** Convertible, living façade with interesting design features

### Technical specifications

-  Max. 70 kg (154 lbs.)
-  Max. 3200 mm (10' 5 31/32")
-  650–1200 mm (2' 1 19/32" to 3' 11 1/4")  
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))
-  28–40 mm (1 3/32" to 1 9/16")



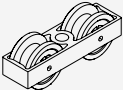
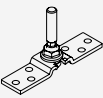

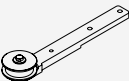



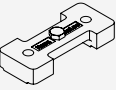

### Installation examples



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

	No.
Hawa Frontslide 100 Matic Telescopic 4, for 4 sliding shutters	25143




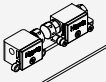

**Set consisting of:**

		25143	No.
	Two-wheeled running gear, M10, plastic wheels	8	24552
	Top fixing plate, stainless steel, with hanger bolt M10	8	24564
	Toothed belt clamp	1	25059
	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


**Set Motronic 100 SMI**

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

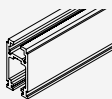
**Set consisting of:**

		30521	No.
	Hawa Motronic 100 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30317
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

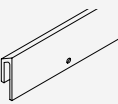
**Running tracks**

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

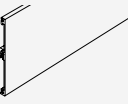
### Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


### Guide tracks

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

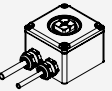

### Panel attachment components

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

### Guides

		No.
	Guide slider, for screw fixing	24542

### Start-up box




		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 100 SMI

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

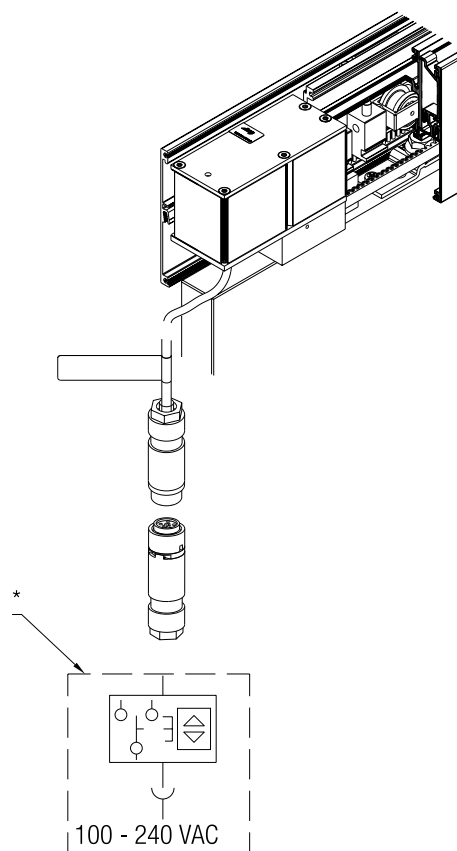
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	70 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

<b>Hawa Motronic 100</b>			I- →
Artikel-Nr.	30317	 	I+ →
Kontakt	www.hawa.com		
Charge	20ZZ/YYYYYY		
Key-ID	0016XXXXXX, Bj: 20ZZ		
Antriebskraft max.	100 N, IP54		
100-240 VAC, 50/60 Hz, 30 W			
Geschwindigkeit max. 7 cm/s			
Betriebstemp. -20 °C bis +60 °C			

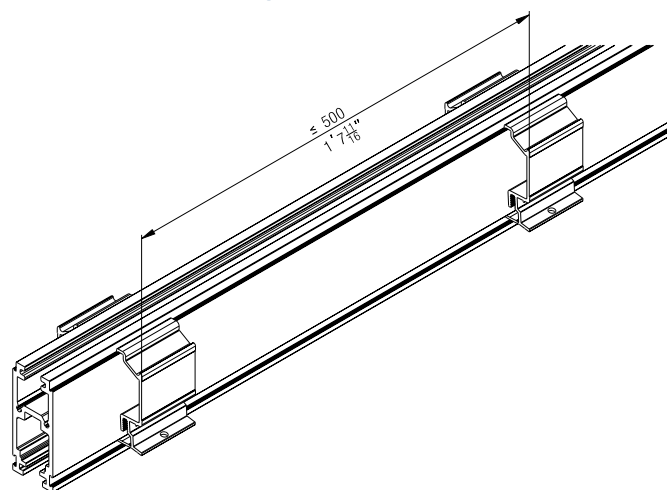
### Actuation and operation of the system

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



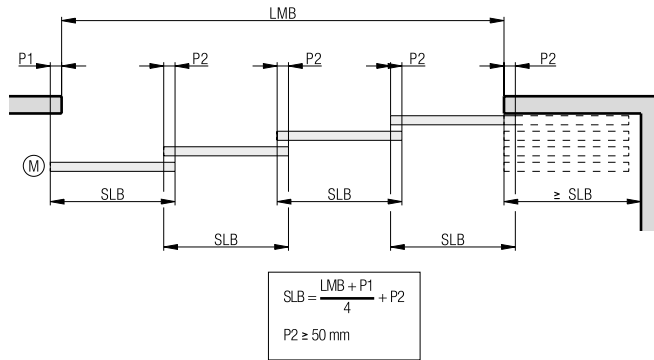
\* to be provided by customer

### Panel attachment component installation

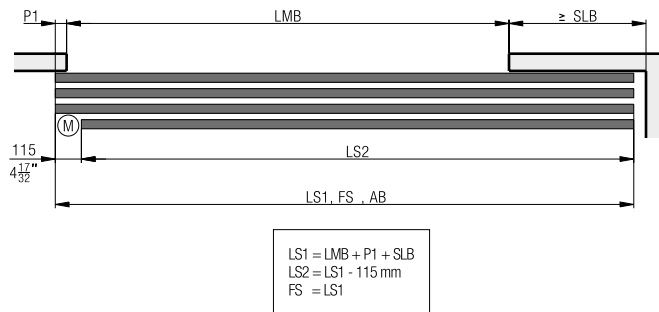




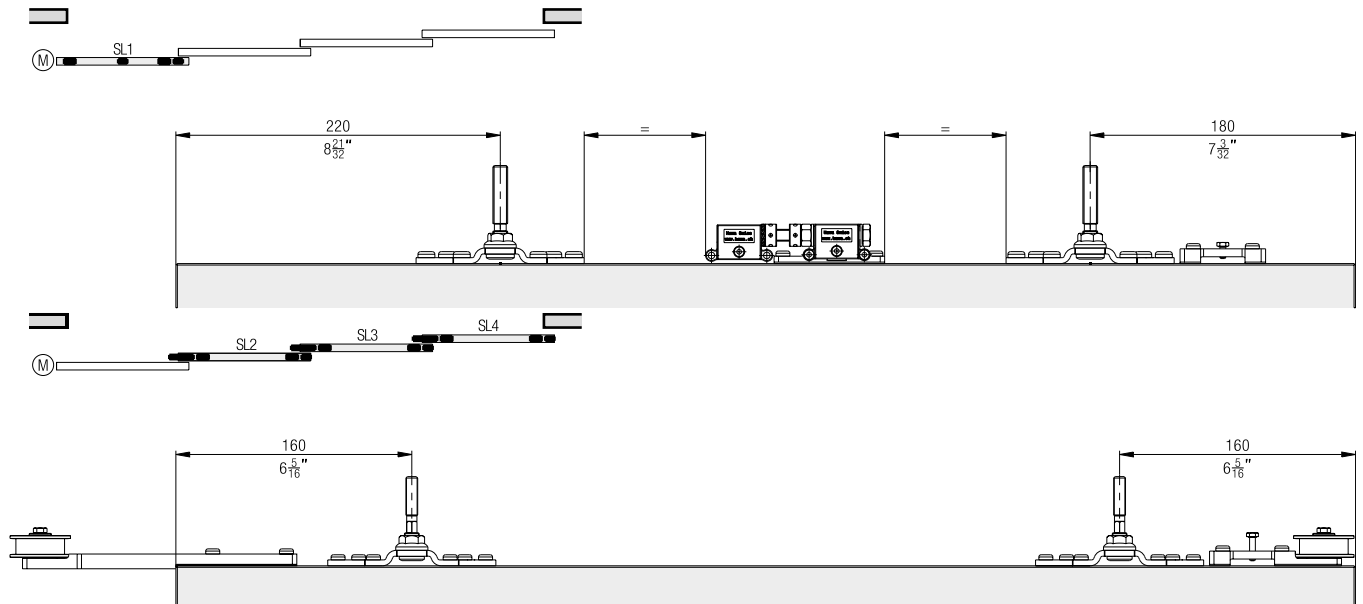
### Sliding shutter width calculations



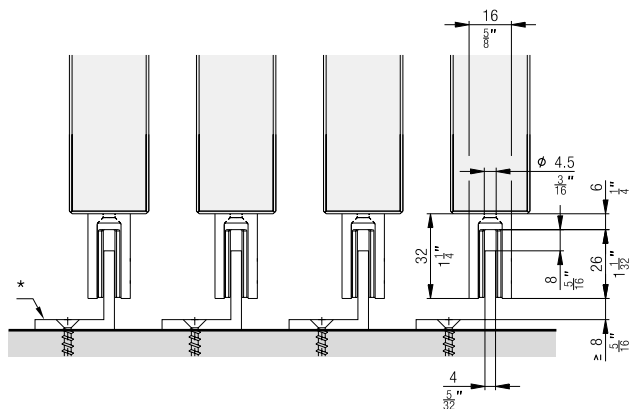
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



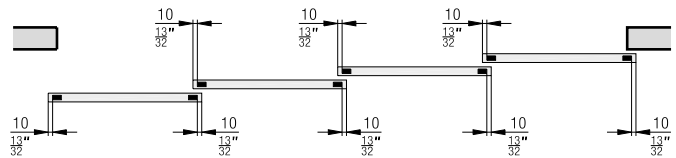
### Suspension points



## 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](http://www.hawa.com).

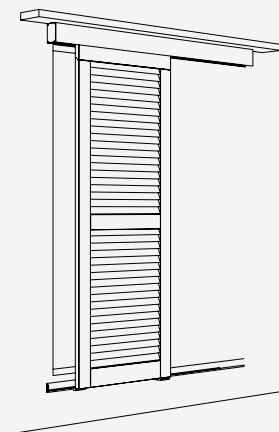
## Fitting for top-running wooden or metal shutters up to 140 kg (309 lbs.), with screwed on running track. Ceiling or architrave mounting.

### Product highlights

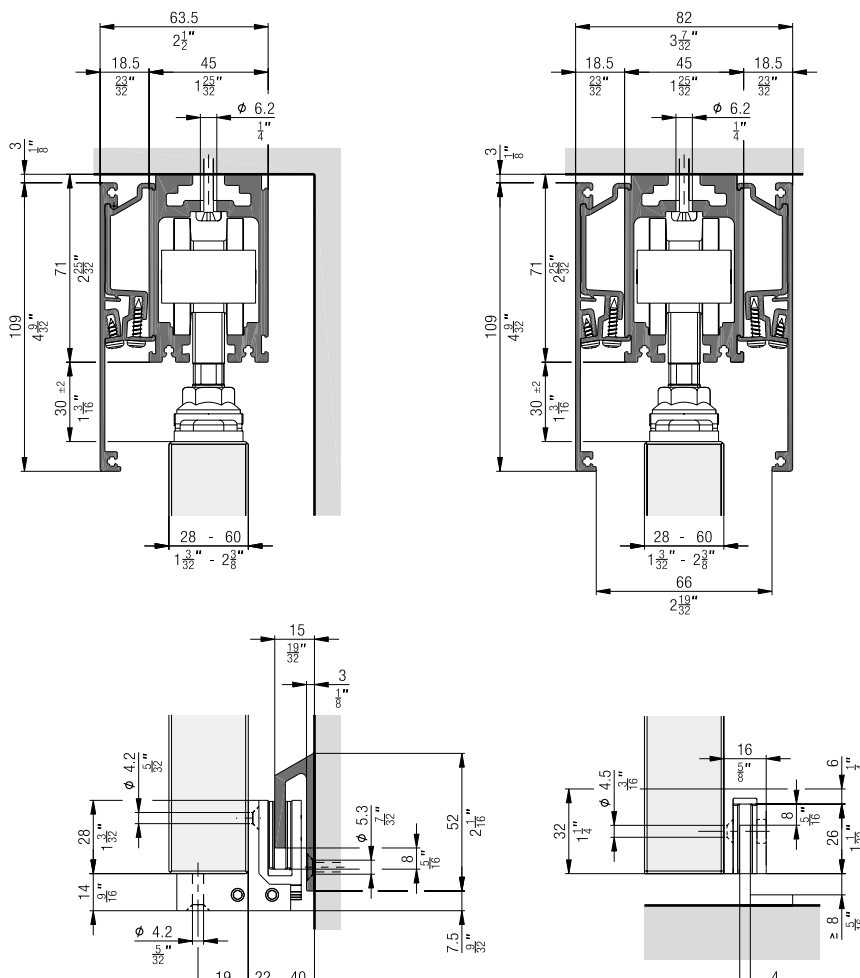
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	140 kg (309 lbs)
	Max.	3200 mm (10' 5 31/32")
		700–3750 mm (2' 3 9/16" to 12' 3 5/8") (Max. shutter area 9.6 m <sup>2</sup> (103 ft <sup>2</sup> ))
		28–60 mm (1 3/32" to 2 3/8")



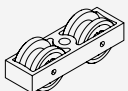
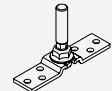
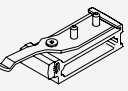
### Installation examples



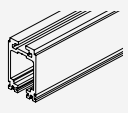
**Set for 1 sliding shutter up to 140 kg (309 lbs.)**

	No.
Hawa Frontslide 140 A, for 1 sliding shutter	25130


**Set consisting of:**

		25130	No.
	Two-wheeled running gear, M12, plastic wheels	2	24554
	Top fixing plate, stainless steel, with hanger bolt M12	2	24567
	Track stop with adjustable retainer	2	24835

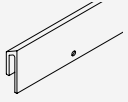
**Running tracks**

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

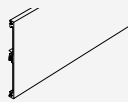
**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

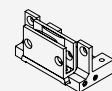
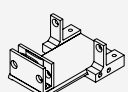

**Panels**

		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.
	Parts for fitting running track cover, at least every 500 mm (1' 7 11/16"), 5-piece set	24767

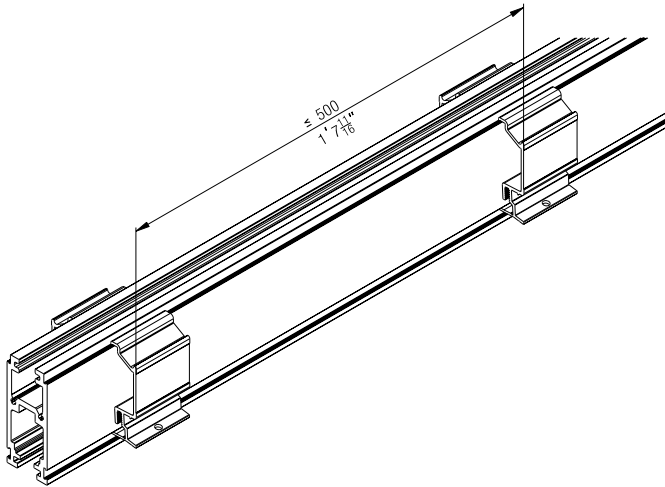
**Guides**

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

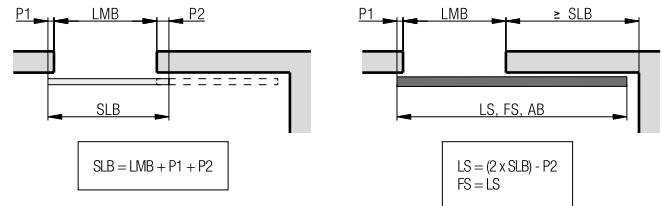
**Accessories**

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

### Panel attachment component installation

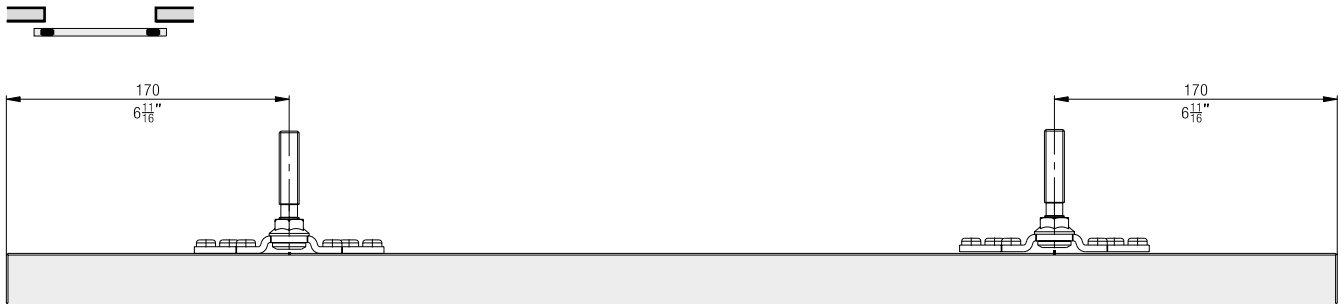


### Sliding shutter width calculation

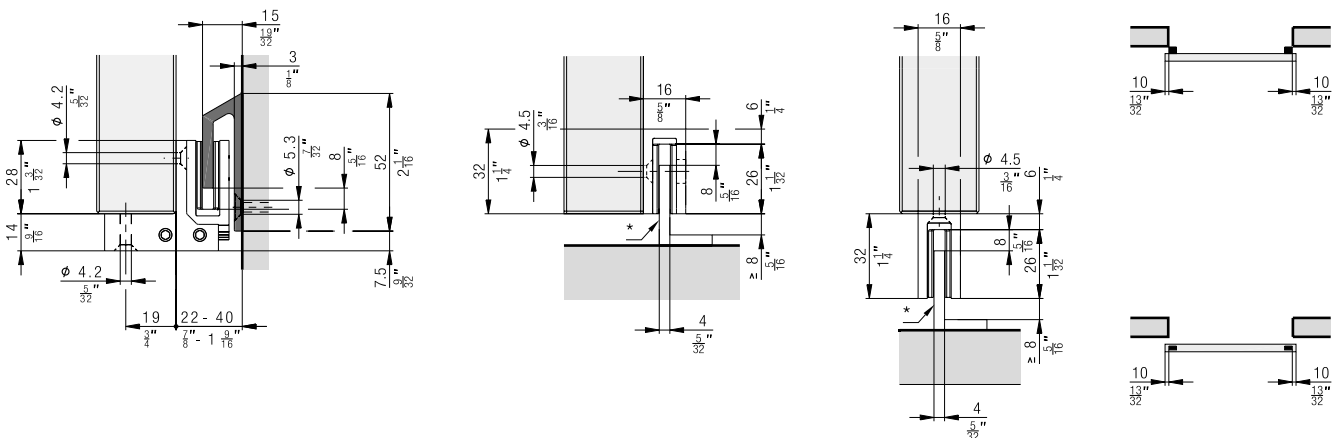


AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track

### 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](http://www.hawa.com).

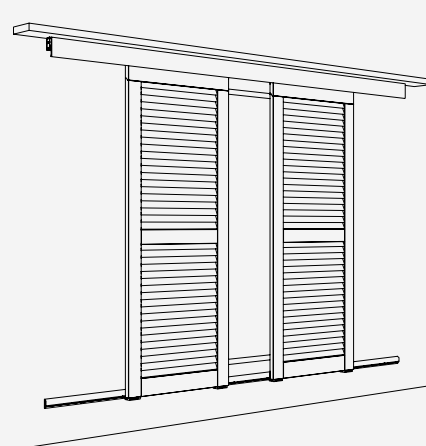
**Fitting for 2 symmetrically opening wooden or metal shutters up to 140 kg (309 lbs.).  
With screwed on running track. Ceiling or architrave mounting.**

### Product highlights

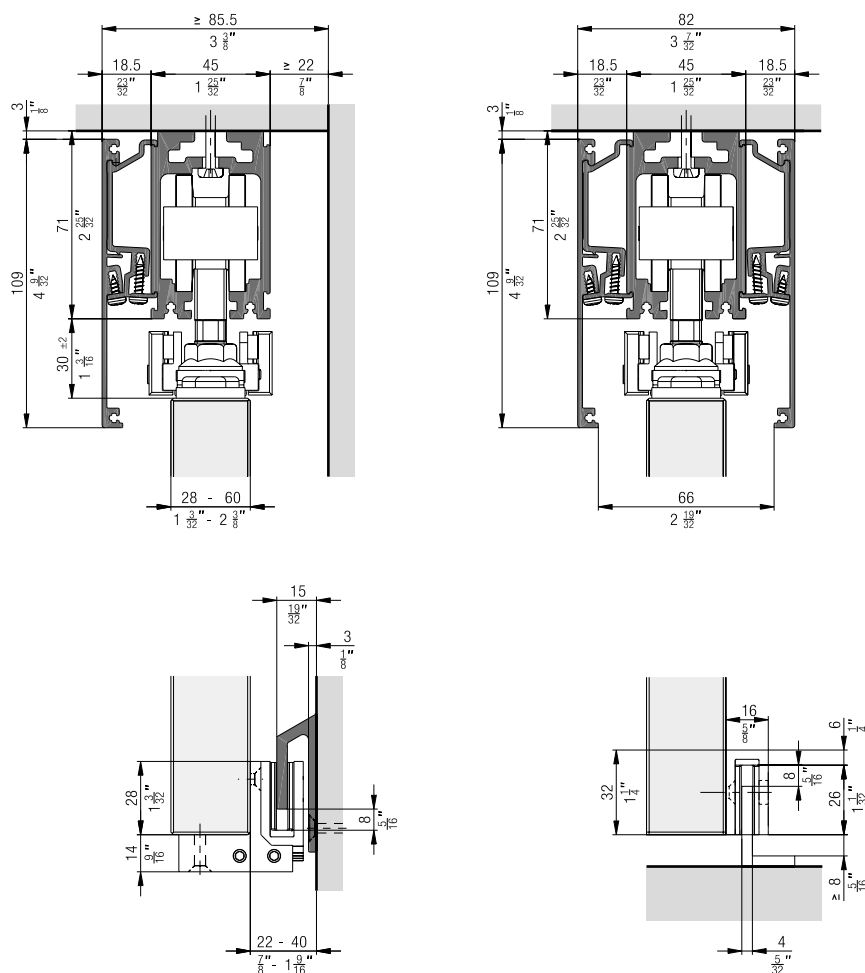
- Aesthetics** Attractive design solution for exciting and modern façade design
- Security** The shutters withstand even stormy winds, both open and closed

### Technical specifications

	Max.	140 kg (309 lbs)
	Max.	3200 mm (10' 5 31/32")
		700–1500 mm (2' 3 9/16" to 4' 11 1/16") (Max. shutter area 3.84 m <sup>2</sup> (41 ft <sup>2</sup> ))
		28–60 mm (1 3/32" to 2 3/8")



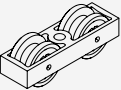
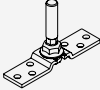
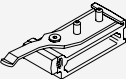

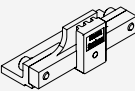
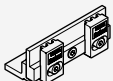
### Installation examples




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

	No.
Hawa Frontslide 140 A-Symmetric 2, for 2 sliding shutters	25451

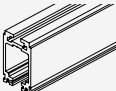
**Set consisting of:**

		25451	No.
	Two-wheeled running gear, M12, plastic wheels	4	24554
	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

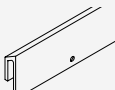
**Running tracks**

	mm (inch)	No.
	3500 (11' 5 25/32")	24841
	6000 (19' 8 7/32")	24799
	cut to size	24800

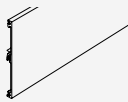
**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

	mm (inch)	No.
	6000 (19' 8 7/32")	24460
	cut to size	24462

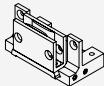
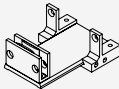

**Panels**

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

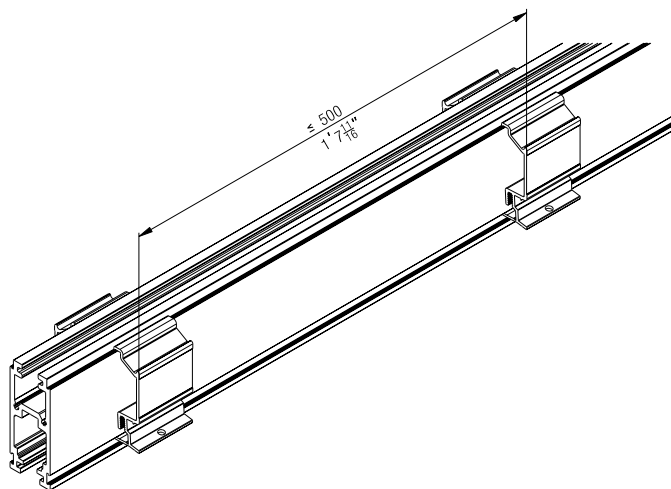
**Guides**

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

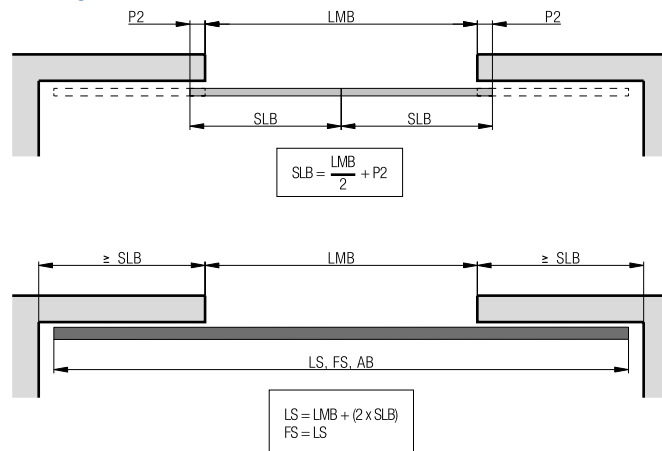
**Accessories**

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

### Panel attachment component installation

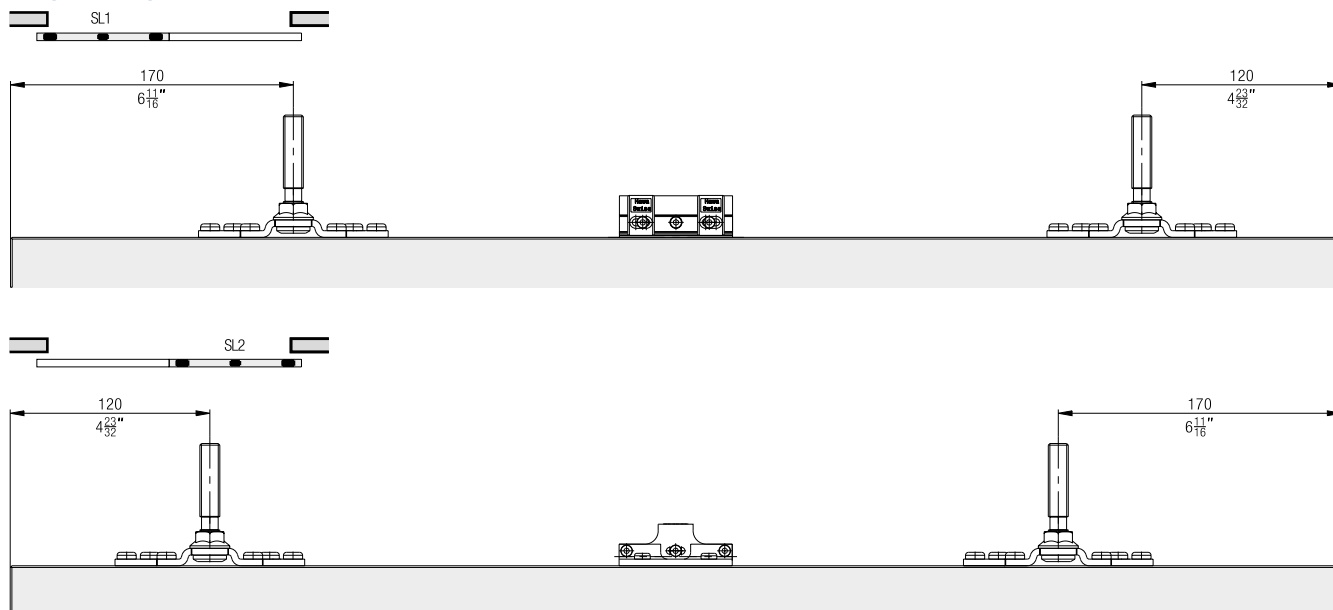


### Sliding shutter width calculations



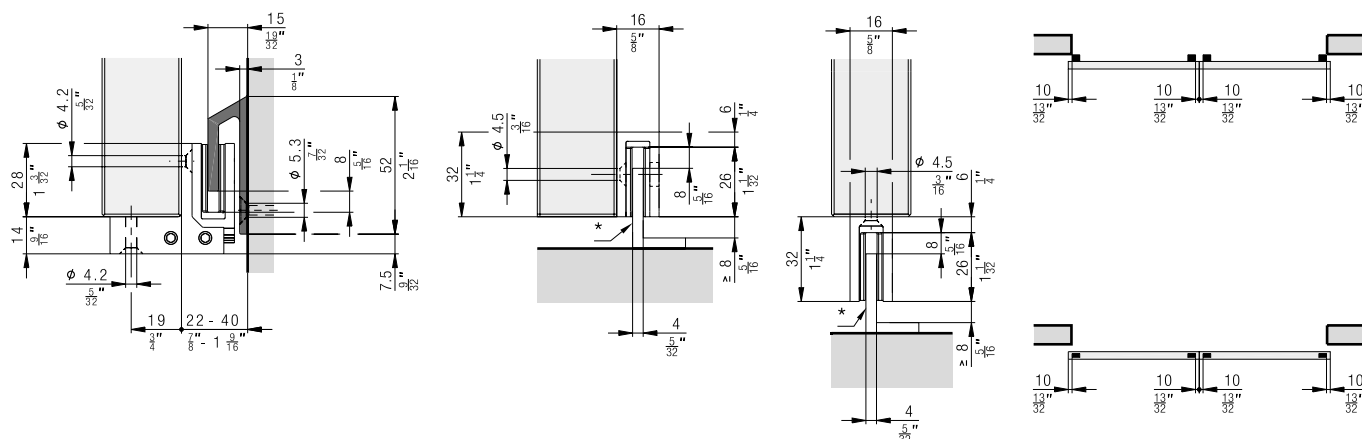
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### 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](http://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



## Aesthetics

Attractive design solution for exciting and modern façade design



## Security

The shutters withstand even stormy winds,  
both open and closed

## Technical specifications



Max. 140 kg (309 lbs)



Max. 3200 mm (10' 5 31/32")

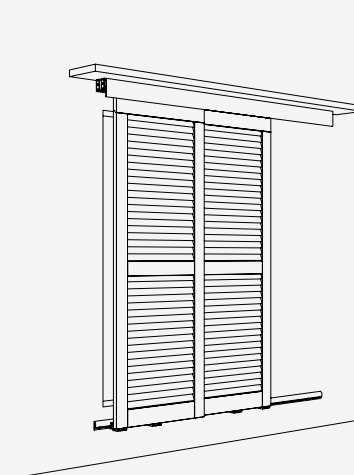


700–1200 mm (2' 3 9/16" to 3' 11 1/4")

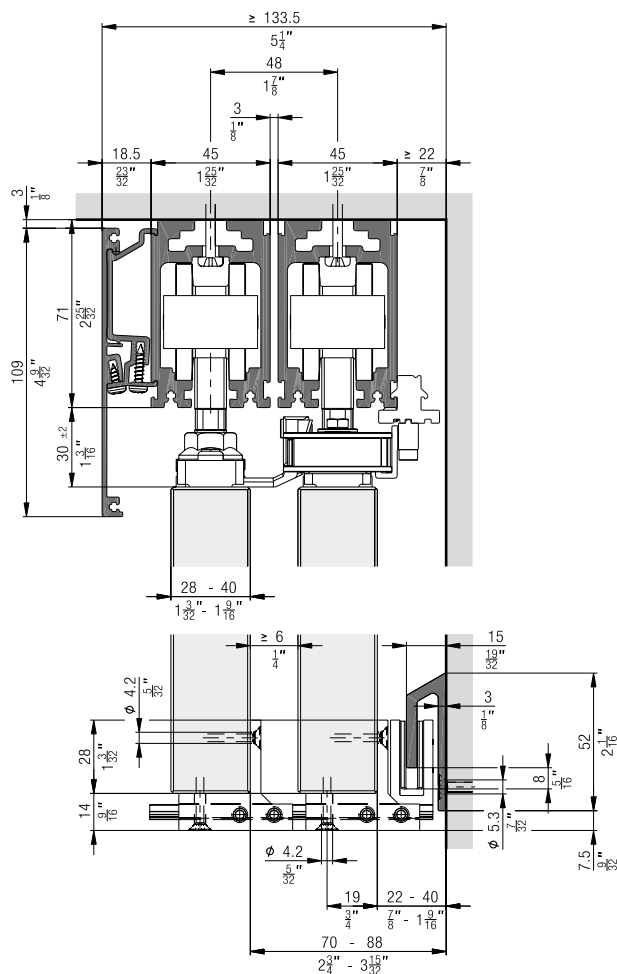
(Max. shutter area 3.84 m<sup>2</sup> (41 ft<sup>2</sup>))



28–40 mm (1 3/32" to 1 9/16")



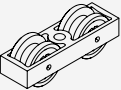
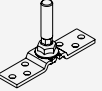
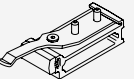

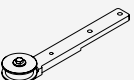
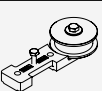

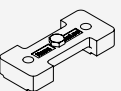

## Installation examples



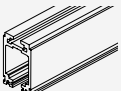
## Set for 2 sliding shutters up to 140 kg (309 lbs.)

	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
	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

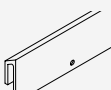
## Running tracks

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


## Connecting pins for running tracks

		No.
	Connecting bolts, 6-piece set	17221


## Guide tracks

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


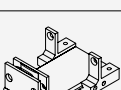

## Panels

		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

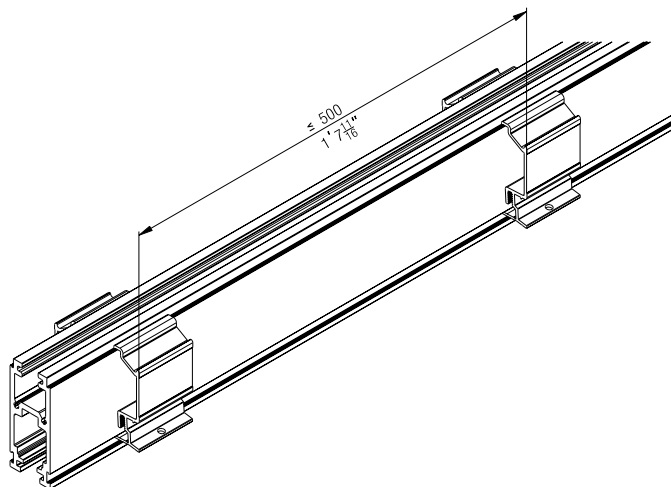
## Panel attachment components

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

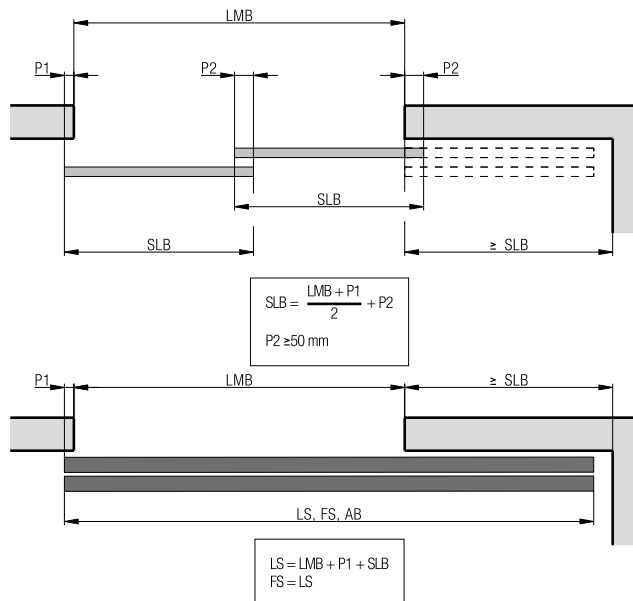
## Guides

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

### Panel attachment component installation



### Sliding shutter width calculations

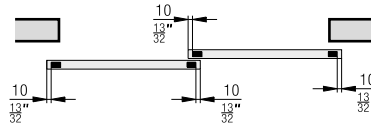
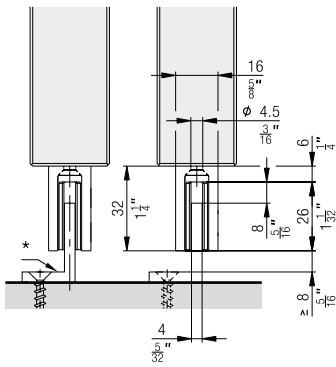
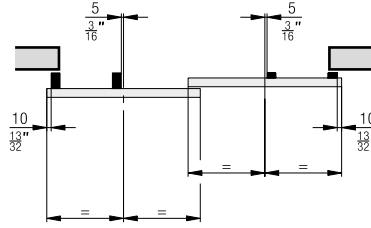
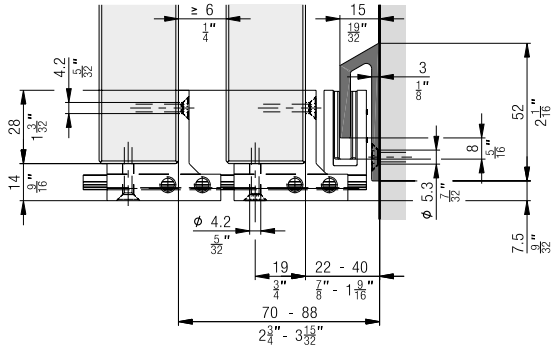


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track

### 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](http://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



#### Comfort

Automated system with building control interface  
Optimized individual use of daylight



#### Security

Extremely robust sliding shutter that has been tested for 100,000 cycles  
High resistance to wind and corrosion

### Technical specifications



Max. 140 kg (309 lbs)



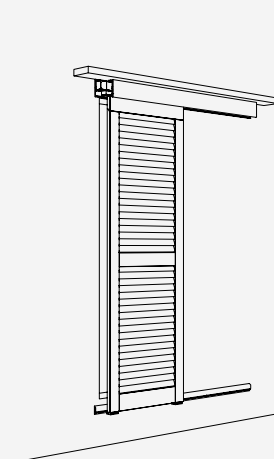
Max. 3200 mm (10' 5 31/32")



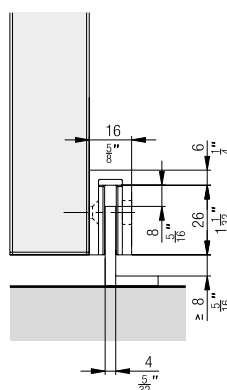
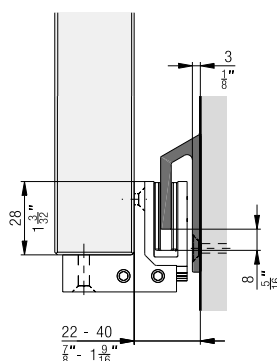
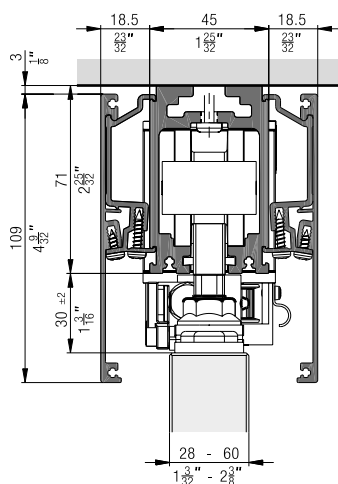
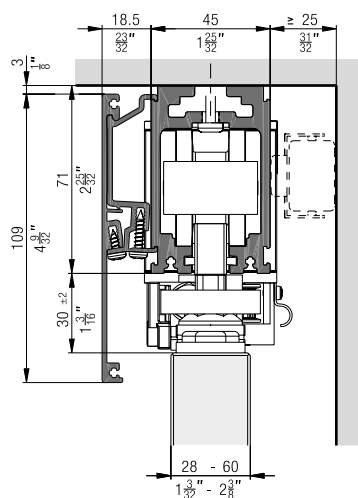
750–3750 mm (2' 5 17/32" to 12' 3 5/8")  
(Max. shutter area 6.24 m<sup>2</sup> (67 ft<sup>2</sup>))



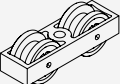
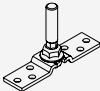
28–60 mm (1 3/32" to 2 3/8")






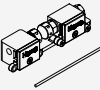

### Installation examples




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

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

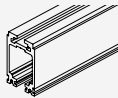
**Set Motronic 140 SMI**

		No.
Hawa Motronic 140 SMI for Hawa Frontslide 140 Matic, incl. control unit, toothed belt lock and pulley wheel		30522
		No.
		30522
<b>Set consisting of:</b>		
	Hawa Motronic 140 SMI with integrated control and connecting cable with a premounted Wieland plug	1 30318
	Wieland connector for Hawa Motronic 60/100/140 SMI	1 30277
	Pulley wheel for automatic mechanism	1 24792
	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

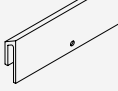
**Running tracks**

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


**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

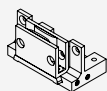
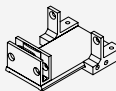

**Panels**

		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

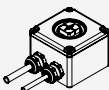

### Panel attachment components

		No.
	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
	Guide slider, for screw fixing	24542

### Start-up box

		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Accessories

		No.
	Front cover plates, aluminum, anodized, for ceiling fitting, 1 pair	24817
	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:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	50 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided
Mains isolation device:	Customer-provided

### Type plate

**Hawa Motronic 140**

Artikel-Nr. 30318  
 Kontakt [www.hawa.com](http://www.hawa.com)  
 Charge 20ZZ/YYYYYY  
 Key-ID 0016XXXXXX, Bj: 20ZZ  
 Antriebskraft max. 100 N, IP54  
 100–240 VAC, 50/60 Hz, 30 W  
 Geschwindigkeit max. 5 cm/s  
 Betriebstemp. -20 °C bis +60 °C

**Hawa**

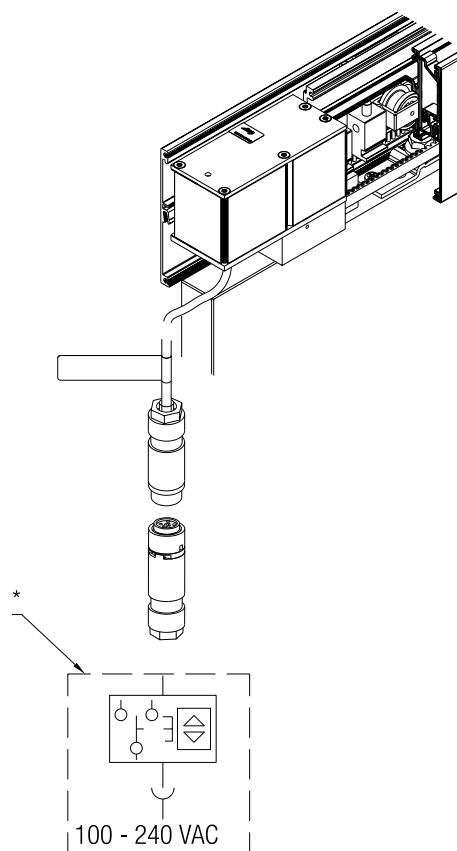
CE

I- →

I+ →

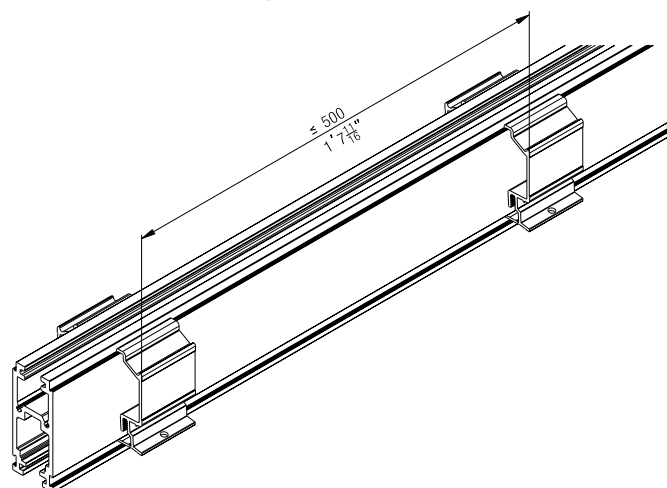
### Actuation and operation of the system

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

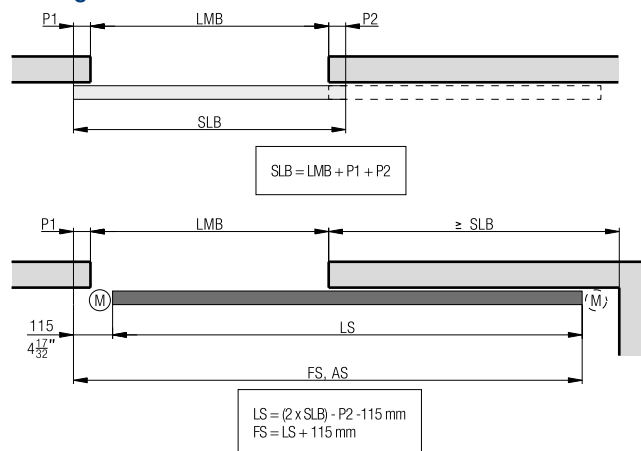


\* to be provided by customer

### Panel attachment component installation

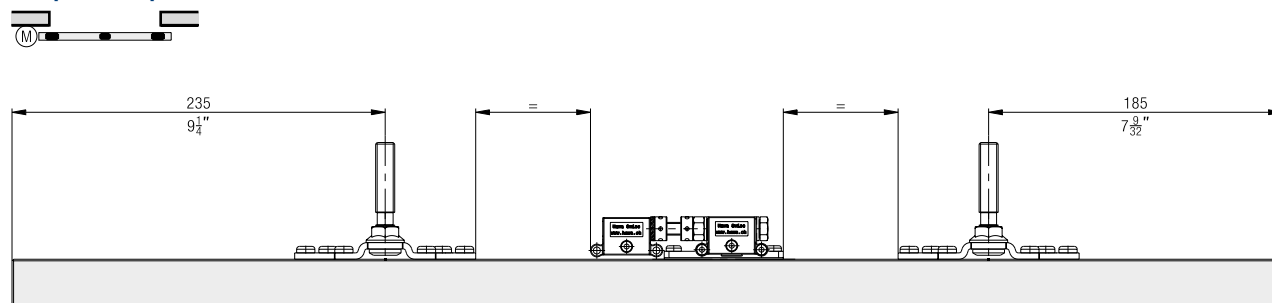


### Sliding shutter width calculation

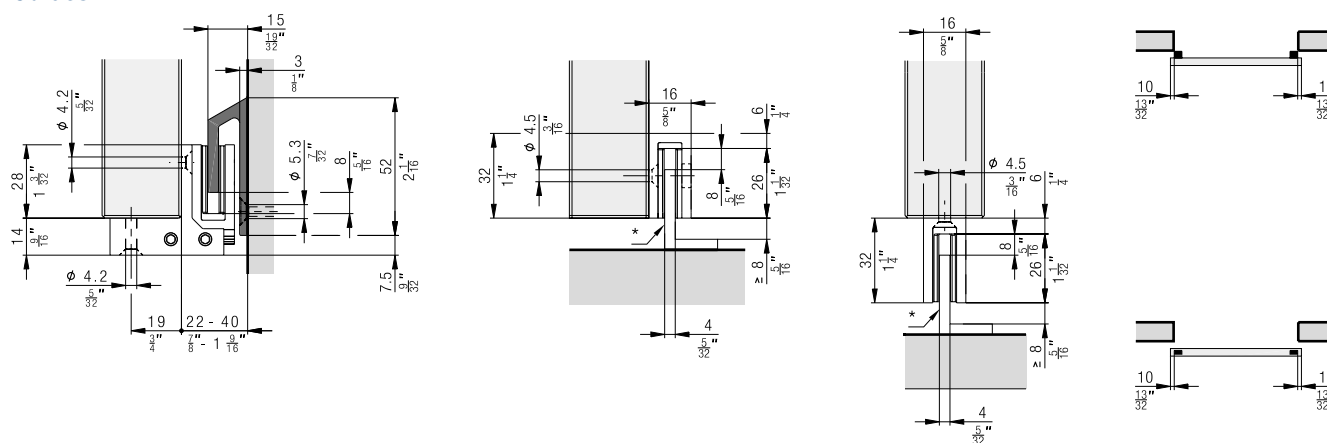


AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS = Running track  
 FS = Guide track  
 M = Minimum space for drive unit

### 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](http://www.hawa.com).

## 140 Matic Symmetric 2

**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.**

## Product highlights



## Comfort

Automated system with building control interface  
Optimized individual use of daylight



## Productivity

Increases energy efficiency in the building

## Technical specifications



Max. 100 kg (220 lbs.)



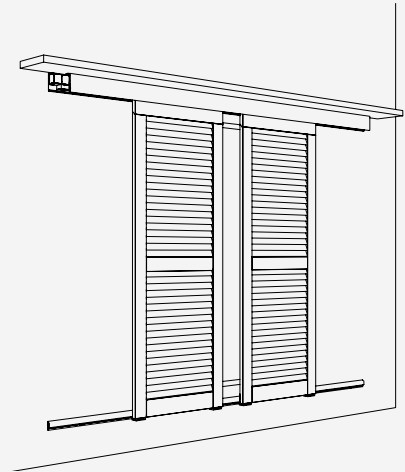
Max. 3200 mm (10' 5 31/32")



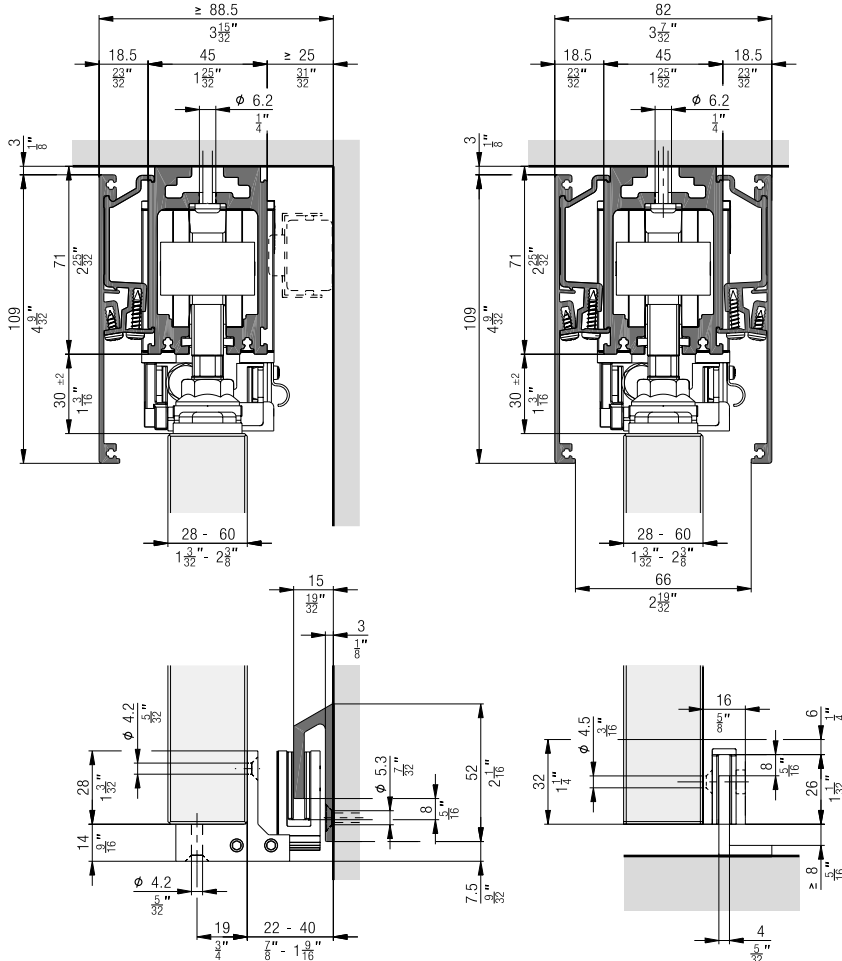
750–1875 mm (2' 5 17/32" to 6' 1 13/16")  
(Max. shutter area 6.24 m<sup>2</sup> (67 ft<sup>2</sup>))



28–60 mm (1 3/32" to 2 3/8")



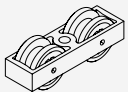
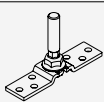
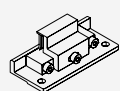
## Installation examples



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

	No.
Hawa Frontslide 140 Matic Symmetric 2, for 2 sliding shutters	25452




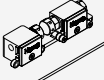

**Set consisting of:**

		25452	No.
	Two-wheeled running gear, M12, plastic wheels	4	24554
	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

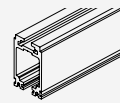
**Set consisting of:**

		30522	No.
	Hawa Motronic 140 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30318
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	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

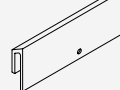
**Running tracks**

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


**Connecting pins for running tracks**

	No.
 Connecting bolts, 6-piece set	17221


**Guide tracks**

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

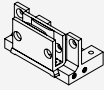
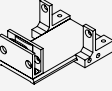

**Panels**

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

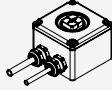

### Panel attachment components

		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
	Guide slider, for screw fixing	24542

### Start-up box

		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Accessories


		No.
	Front cover plates, aluminum, anodized, for ceiling fitting, 1 pair	24817
	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:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	50 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided
Mains isolation device:	Customer-provided

### Type plate

**Hawa Motronic 140**  I- →

Artikel-Nr. 30318

Kontakt [www.hawa.com](http://www.hawa.com)

Charge 20ZZ/YYYYYY

Key-ID 0016XXXXXX, Bj: 20ZZ


Antriebskraft max. 100 N, IP54

100–240 VAC, 50/60 Hz, 30 W

Geschwindigkeit max. 5 cm/s

Betriebstemp. -20 °C bis +60 °C

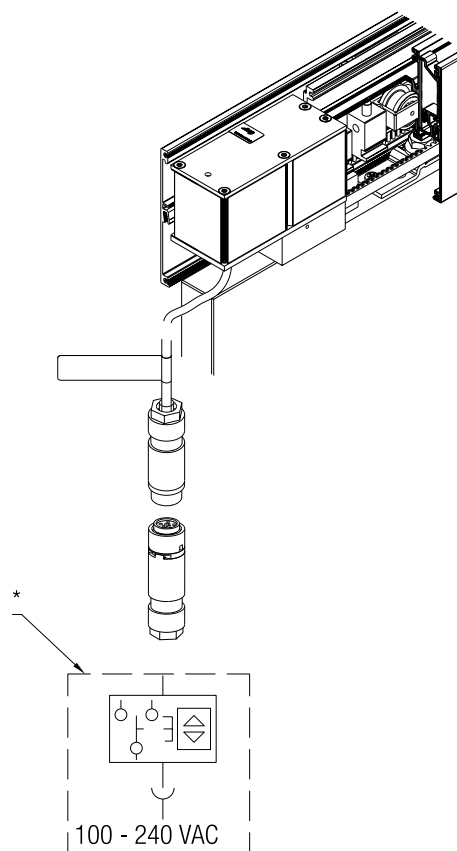
**Hawa**



I+ →

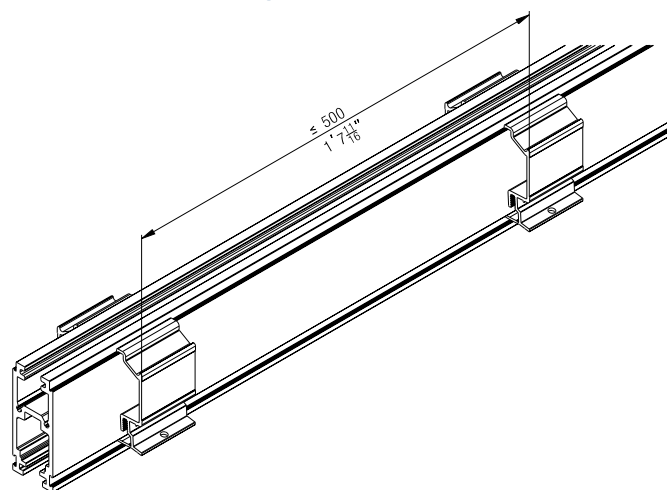
### Actuation and operation of the system

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

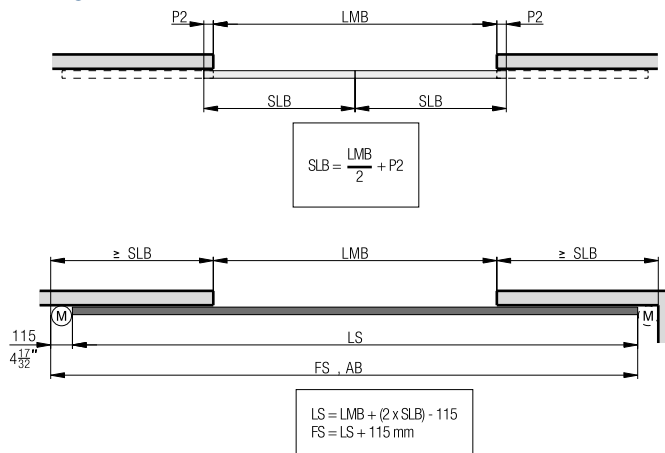


\* to be provided by customer

### Panel attachment component installation

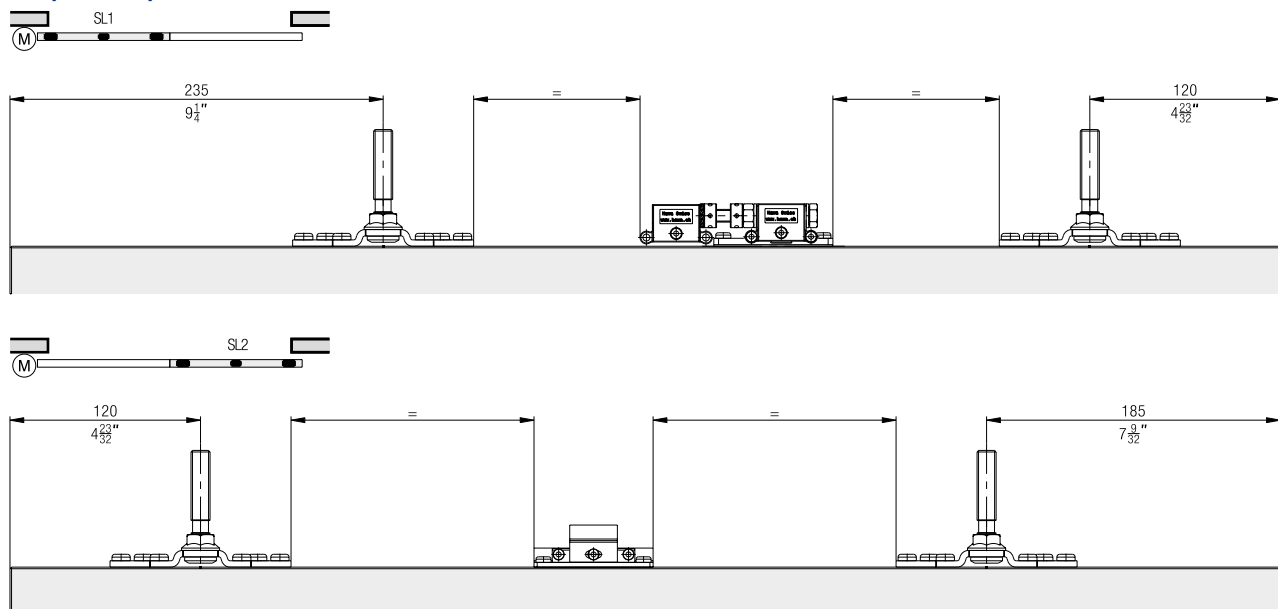


## Sliding shutter width calculation

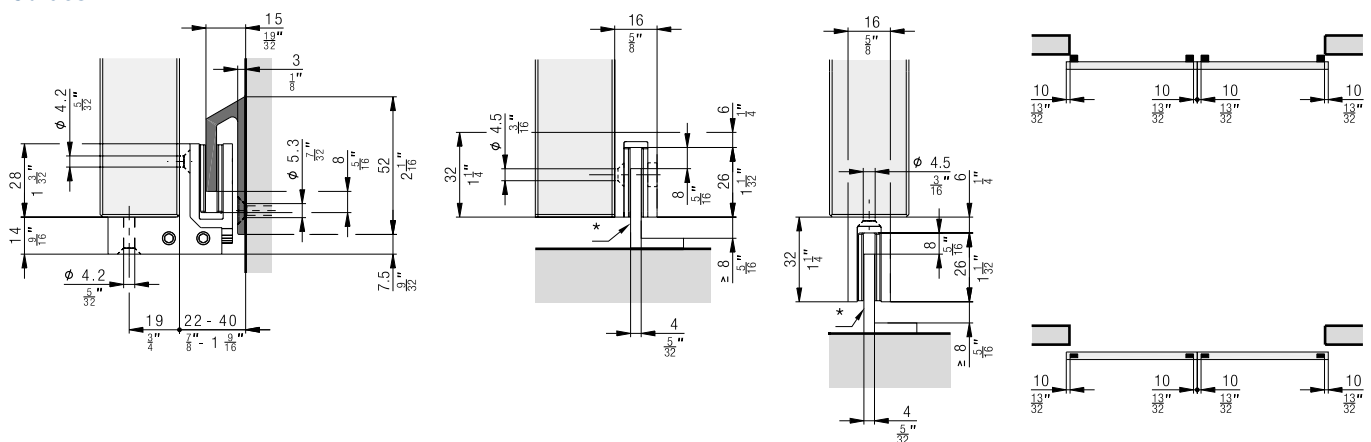


AB = System width  
LMB = Inside clearance  
SLB = Sliding shutter width  
P = Sliding shutter overlap  
LS = Running track  
FS = Guide track  
M = Minimum space for drive unit

## Suspension points



## Guides



\* to be provided by customer



## Planning/execution

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





Further information about the product can be found on [www.hawa.com](http://www.hawa.com).

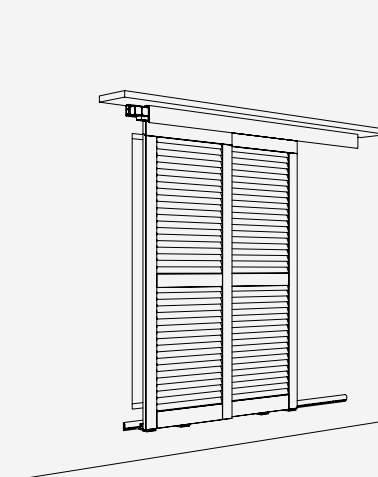
**Automated fitting with SMI interface for 2 wooden or metal shutters up to 140 kg (309 lbs.), with screwed on running track. Ceiling or architrave mounting.**

### Product highlights

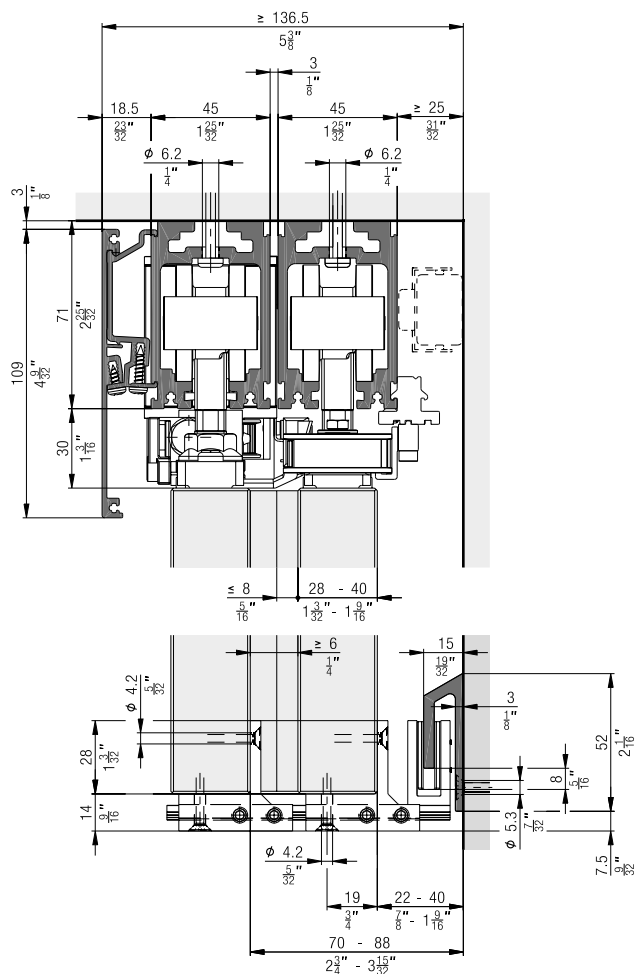
-  **Comfort** Automated system with building control interface  
Optimized individual use of daylight
-  **Aesthetics** Convertible, living façade with interesting design features

### Technical specifications

-  Max. 140 kg (309 lbs)
-  Max. 3200 mm (10' 5 31/32")
-  750–1200 mm (2' 5 17/32" 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

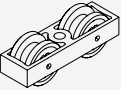


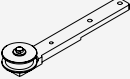


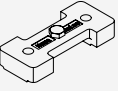





**Set for 2 sliding shutters up to 140 kg (309 lbs.)**

	No.
Hawa Frontslide 140 matic Telescopic , for 2 sliding shutters	25145

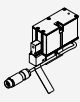




**Set consisting of:**

		25145	No.
	Two-wheeled running gear, M12, plastic wheels	4	24554
	Top fixing plate, stainless steel, with hanger bolt M12	4	24567
	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

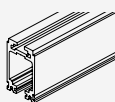
**Set Motronic 140 SMI**

	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.
	Hawa Motronic 140 SMI with integrated control and connecting cable with a premounted Wieland plug	1	30318
	Wieland connector for Hawa Motronic 60/100/140 SMI	1	30277
	Pulley wheel for automatic mechanism	1	24792
	Toothed belt lock	1	19654
	End stop, aluminum	2	24786

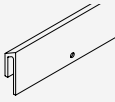
**Running tracks**

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

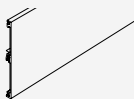
**Connecting pins for running tracks**

		No.
	Connecting bolts, 6-piece set	17221


**Guide tracks**

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

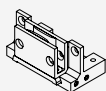
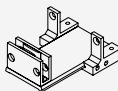

## Panels

		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

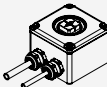

## Panel attachment components

		No.
	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
	Guide slider, for screw fixing	24542

## Start-up box





		No.
	Commissioning box	23789
	SMI adapter for commissioning box	30363

### Technical data Hawa Motronic 140 SMI

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

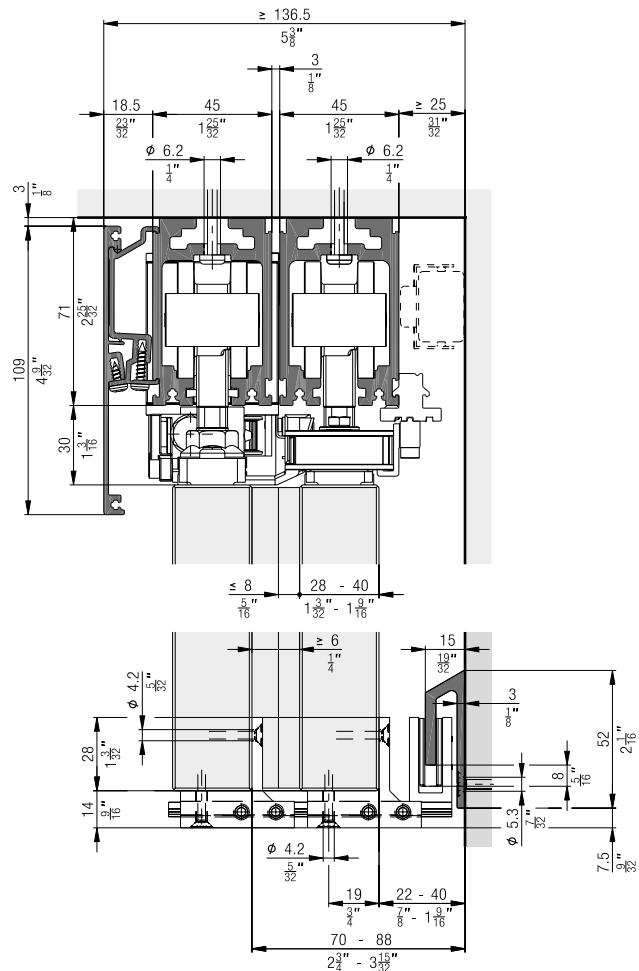
Feed:	100 – 240 VAC, 50/60 Hz, 30 W
Max. preliminary fusing:	16 A
Overvoltage category:	II
Degree of protection:	I
Temperature range:	-20° C to +60° C
Contamination level:	1
IP protection level:	IP 54
Max. speed:	50 mm/s
Max. drive power:	100 N (with internal overload protection)
Switch elements:	Customer-provided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

### Type plate

<b>Hawa Motronic 140</b>			I- →
Artikel-Nr.	30318	  	I+ →
Kontakt	www.hawa.com		
Charge	20ZZ/YYYYYY		
Key-ID	0016XXXXXX, Bj: 20ZZ		
Antriebskraft max.	100 N, IP54		
100–240 VAC, 50/60 Hz, 30 W			
Geschwindigkeit max. 5 cm/s			
Betriebstemp. -20 °C bis +60 °C			

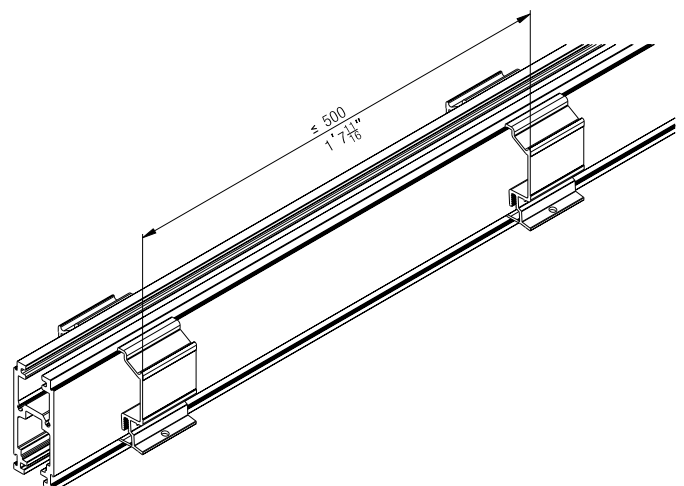
### Actuation and operation of the system

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

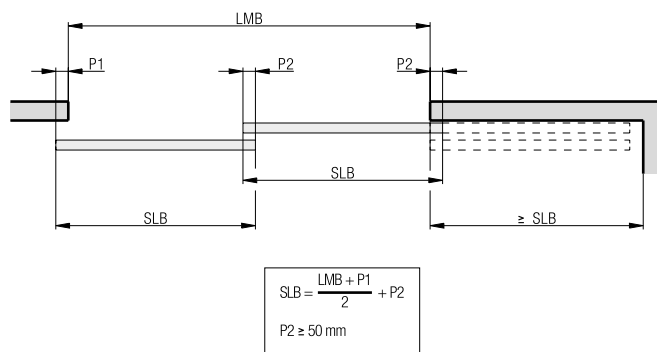


\* to be provided by customer

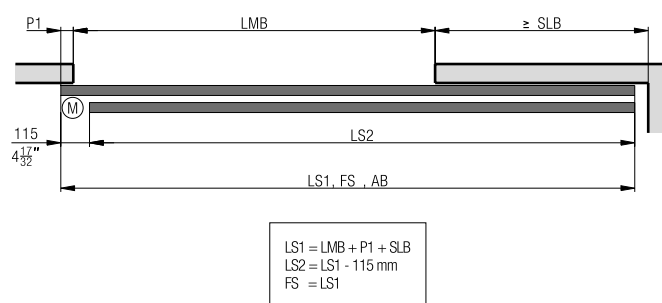
### Panel attachment component installation



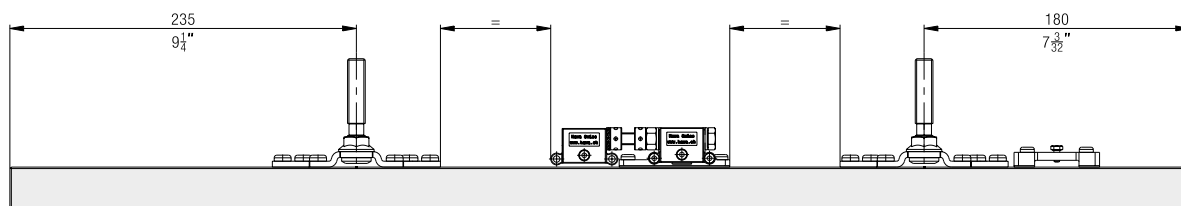
### Sliding shutter width calculations



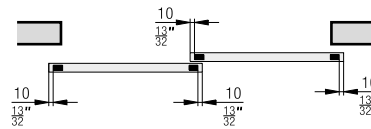
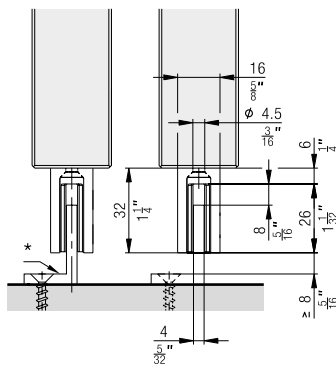
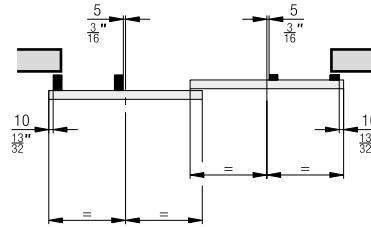
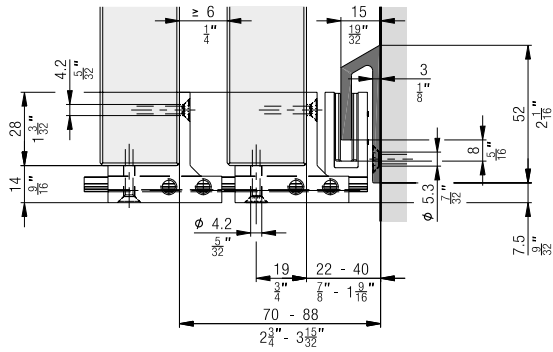
AB = System width  
 LMB = Inside clearance  
 SLB = Sliding shutter width  
 P = Sliding shutter overlap  
 LS1 = Inner running track  
 LS2 = Outer running track  
 FS = Guide track  
 M = Minimum space for drive unit



### 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](http://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

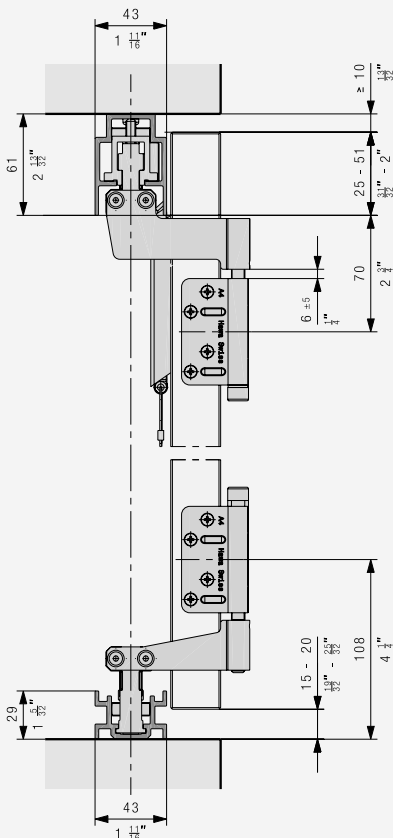
	Max.	30 kg
	Max.	3200 mm
		200–600 mm
		28–36 mm

## Good to know (accessories)

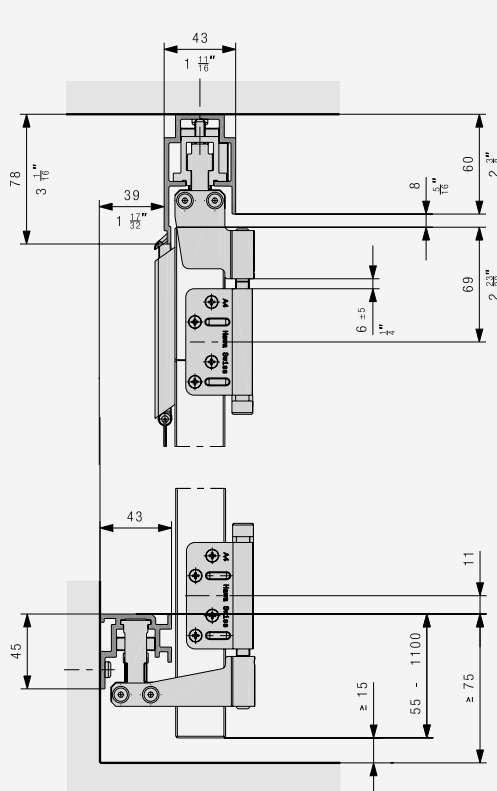
- Tension latch with stainless steel cable
- Stainless steel rotary handle
- Hinges for minimal gap sizes

## Installation examples

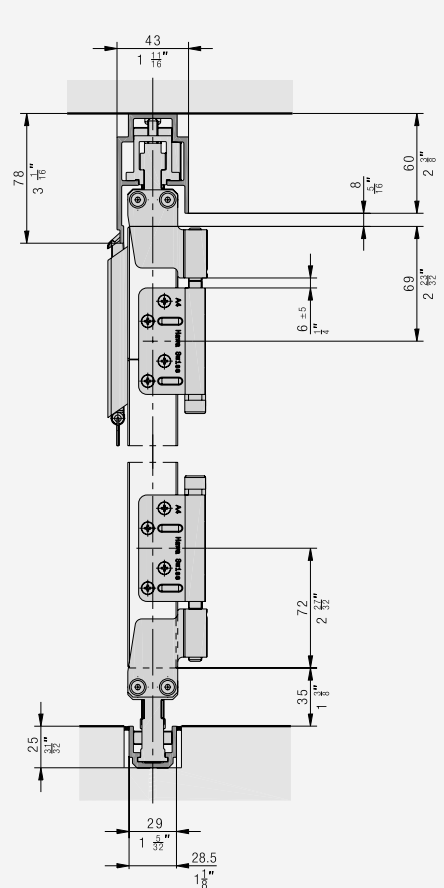
Hawa Frontfold 30 FS



Hawa Frontfold 30 MS



Hawa Frontfold 30 IS





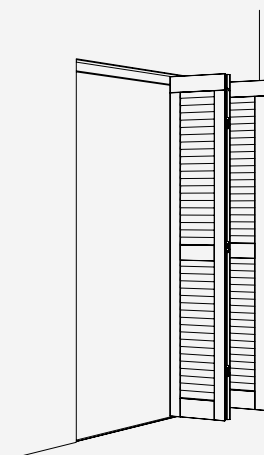
**Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg (397 lbs.) per system, with concealed running and guide tracks. Design Forslide, open at the bottom.**

### Product highlights

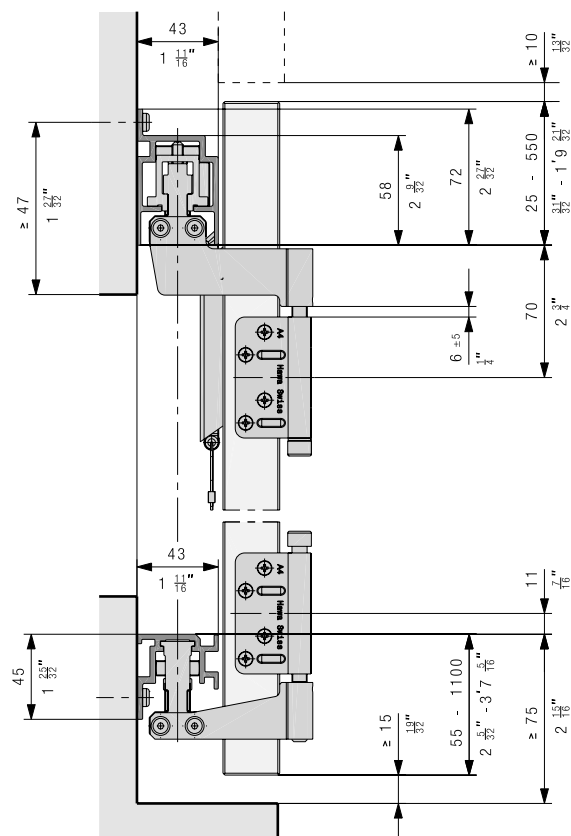
- Aesthetics** Harmonious combination of shutters and façade, since the running and guide tracks disappear behind the closed shutter
- Flexibility** Solution for any construction situation with doors of up to 1.2 m<sup>2</sup> (13 ft<sup>2</sup>) and 30 kg (66 lbs.), even/odd number of doors and system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

### Technical specifications

-  Max. 30 kg (66 lbs.)
-  Max. 3200 mm (10'5 31/32")
-  Max. 600 mm (1'11 5/8")
-  28–36 mm (1 3/32"–1 13/32")




















### Installation examples





## Set for folding packages








	No.
	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 bottom 27556
	Hawa Frontfold 30 FS, additional set, guide track open at the Bottom 27557

Set consisting of:	27555	27556	27557	No.
	1			27517
	1			27519
	1			27528
	1			27529
	4	4	2	27401
	2	2	1	15740
	4	4		27418
		1		27518
		1		27520
		1		27527
		1		27530
			1	27521
			1	27531
			4	27419

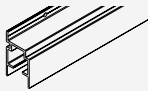
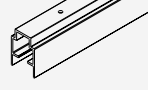
## Set for uneven number of leaves

	No.
Hawa Frontfold 30 FS uo, set for uneven number of leaves left	30164
Hawa Frontfold 30 FS uo, set for uneven number of leaves right	30167


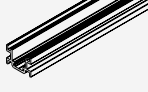

## Set consisting of:

		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
	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

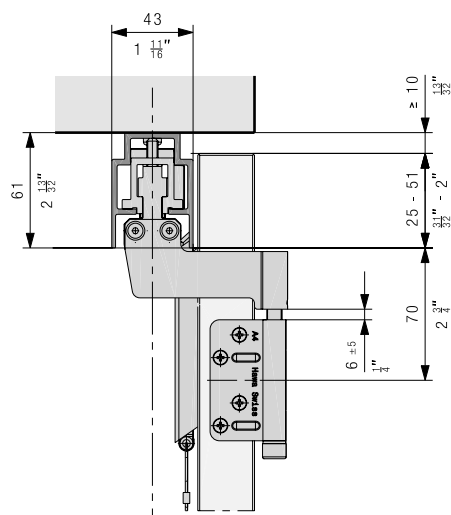
## Running tracks

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












## 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

## Running track, mounted on ceiling



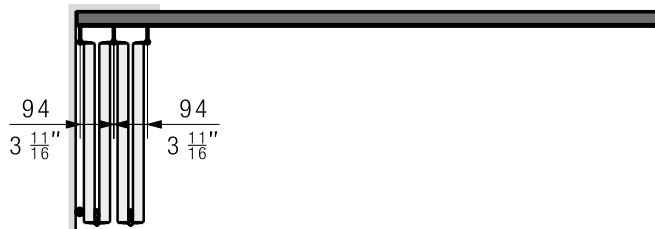
## Accessories

		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
	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
	Stop with adjusting screw, suitable for profile bar 8 mm from the espagnolette locking device	15899

### Planning folding package

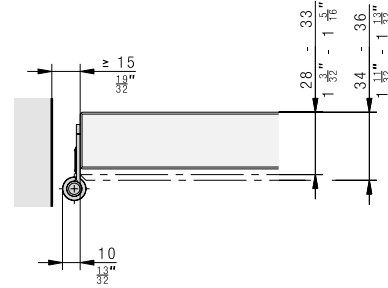
Customer installation of a wind support is recommended.

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

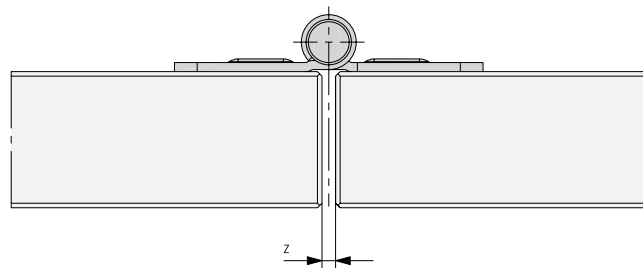


### Running gear and guide hinge

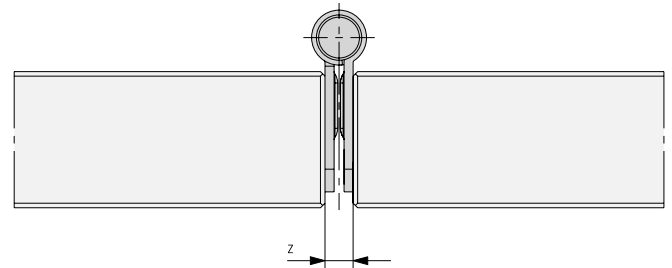
With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



### Options folding hinges

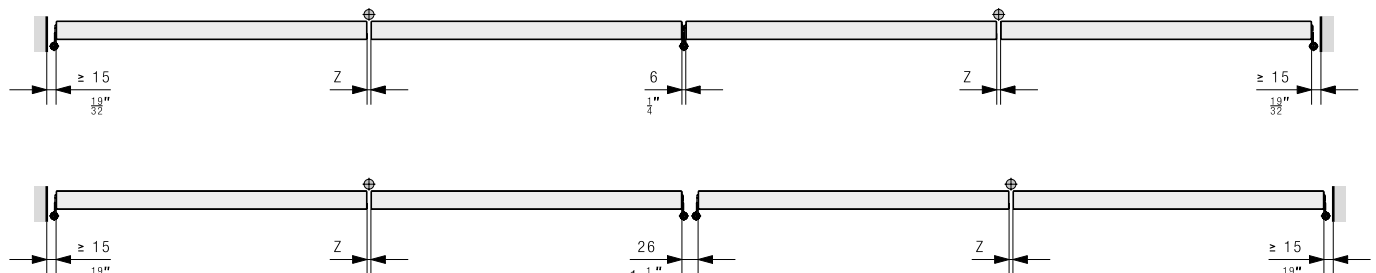


Variant 1, flat hinge: Z = 1–6 mm (1/32" to 1/4")



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](http://www.hawa.com).

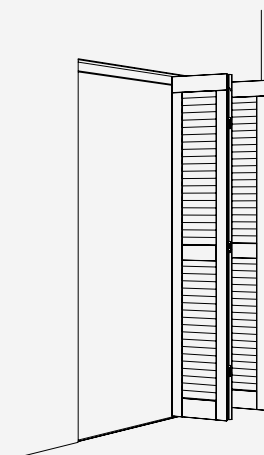
**Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg (397 lbs.) per system, with concealed running and guide tracks. Design Forslide, open at the top.**

### Product highlights

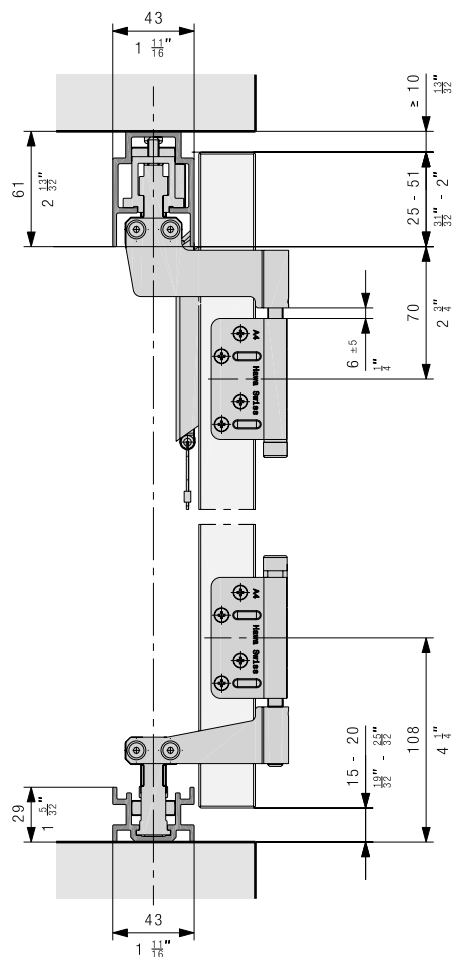
-  **Aesthetics** Harmonious combination of shutters and façade, since the running and guide tracks disappear behind the closed shutter
-  **Flexibility** Solution for any construction situation with doors of up to 1.2 m² (13 ft²) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16")

### Technical specifications




-  Max. 30 kg (66 lbs.)
-  Max. 3200 mm (10'5 31/32")
-  Max. 600 mm (1'11 5/8")
-  28–36 mm (1 3/32"–1 13/32")













### Installation examples



### Set for folding packages

	No.
	Hawa Frontfold 30 FS, basic set right, guide track open at the top 27558
	Hawa Frontfold 30 FS, basic set left, guide track open at the top 27559
	Hawa Frontfold 30 FS, additional set, guide track open at the top 27560








### Set consisting of:

	27558	27559	27560	No.
	1			27517
	1			27519
	1			27533
	1			27534
	4	4	2	27401
	2	2	1	15740
	4	4		27418
		1		27518
		1		27520
		1		27532
		1		27535
			1	27521
			1	27537
			4	27419

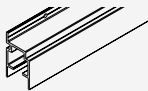
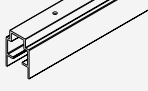
### Set for uneven number of leaves

	No.
Hawa Frontfold 30 FS oo, set for uneven number of leaves left	30168
Hawa Frontfold 30 FS oo, set for uneven number of leaves right	30169


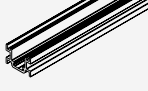

### Set consisting of:

	30168	30169	No.
	1		27518
	1		27532
	2	2	27418
	2	2	27401
	1	1	15740
		1	27517
		1	27533












## Running tracks

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

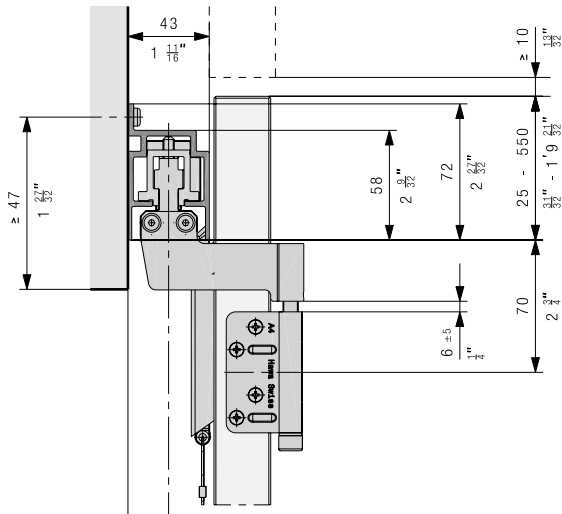
## Guide tracks

		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

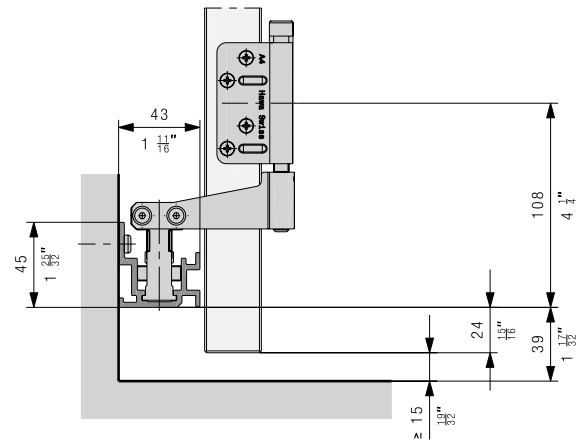
## Accessories

		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, 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 for screw fixing, including threaded bolt	27551
	Drilling jig for hinge, Ø 5mm for riveting, including threaded bolt	27552
	Stop with adjusting screw, suitable for profile bar 8 mm from the espagnolette locking device	15899

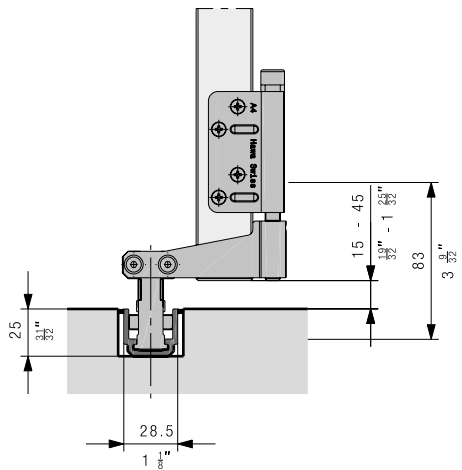
### Running track wall installation



### Guide track wall installation



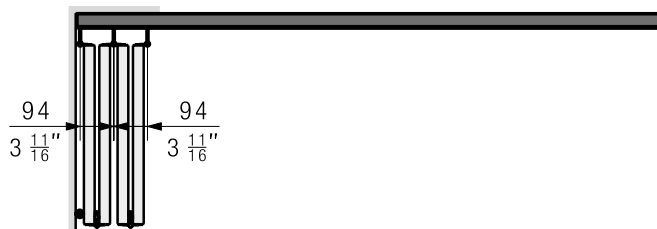
### Guide track embedded in the floor



### Planning folding package

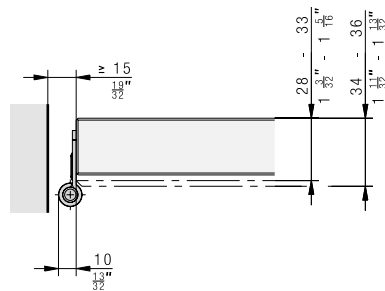
Customer installation of a wind support is recommended.

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

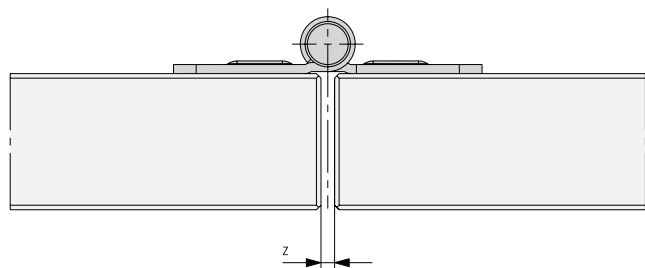


### Running gear and guide hinge

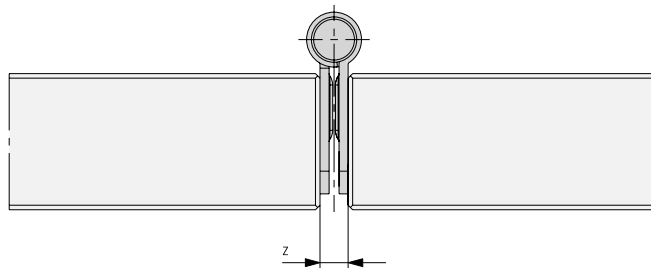
With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



### Options folding hinges

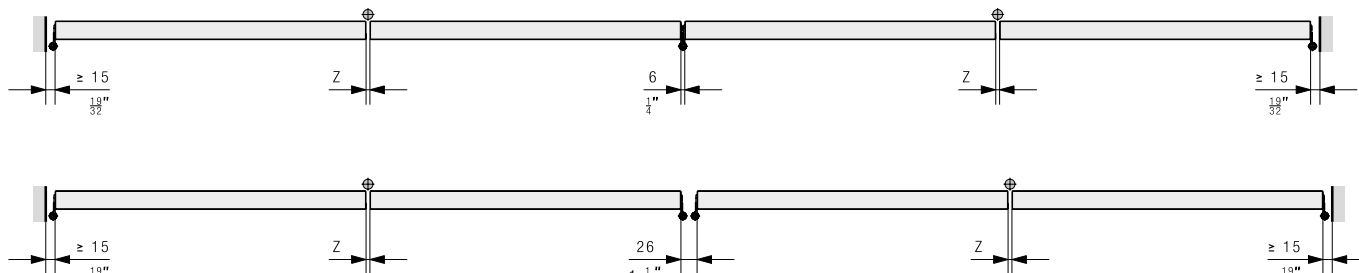


Variant 1, flat hinge:  $Z = 1-6 \text{ mm}$  ( $1/32''$  to  $1/4''$ )



Variant 2, cranked hinge:  $Z = 6 \text{ mm}$  ( $1/4''$ )

### 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](http://www.hawa.com).




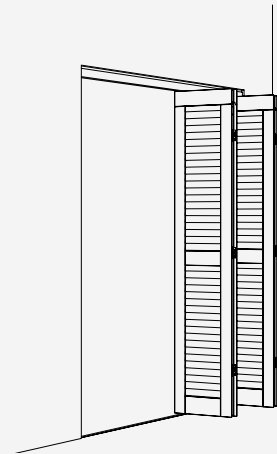
**Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg ((397 lbs.) per system, with visible running track and concealed guide track. Design Mixslide, open at the bottom.**

### Product highlights

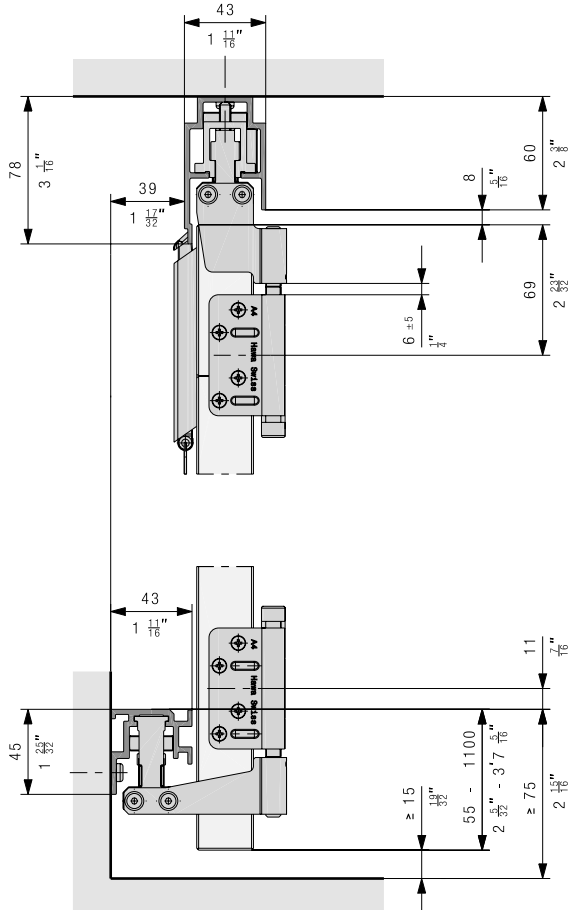
-  **Flexibility** Solution for any construction situation with doors of up to 1.2 m<sup>2</sup> (13 ft<sup>2</sup>) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16")
-  **Security** Corrosion-resistant materials for use in coastal areas without reservations

### Technical specifications




-  Max. 30 kg (66 lbs.)
-  Max. 3200 mm (10'5 31/32")
-  Max. 600 mm (1'11 5/8")
-  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 bottom	27561
	Hawa Frontfold 30 MS, basic set, left, guide track open at the bottom	27562
	Hawa Frontfold 30 MS, additional set, guide track open at the bottom	27563








**Set consisting of:**

		27561	27562	27563	No.
	Fixed suspension, Inslide, folding to the right	1			27523
	Running gear outside, 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
	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
	Hinge plate cranked, two pieces, stainless steel A4			4	27419


**Set for uneven number of leaves**

	No.
Hawa Frontfold 30 MS uo, set for uneven number of leaves left	30170
Hawa Frontfold 30 MS uo, set for uneven number of leaves 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
	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, aluminum, anodized	6000 (19'8 7/32")	27362
		cut to size	27624

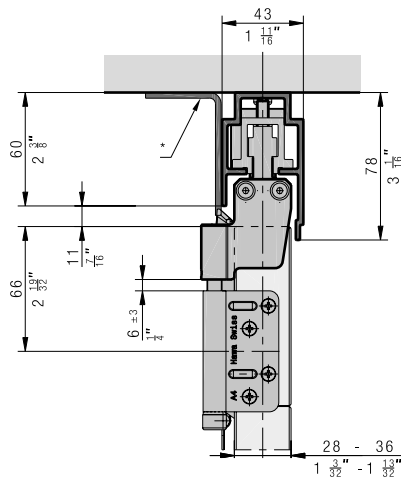
## Guide tracks

		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	cut to size	27627

## Accessories

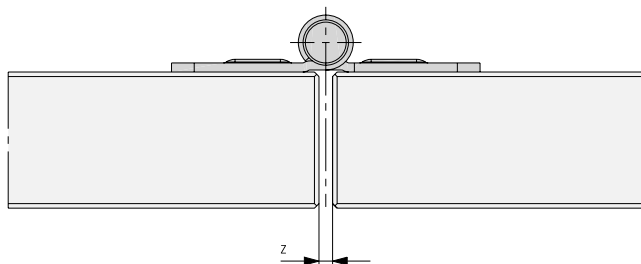
		No.
	Tension latch, opening outwards, with steel cable, without fixing screws	27490
	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
	Flat hinge, gap size 1–6 mm (1/32" to 1/4"), stainless steel A4	27421
	Cranked hinge, 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
	Drilling jig for hinge, Ø 5mm (3/16") for riveting, including threaded bolt	27552
	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 latch folding inwards	30464

### Running track folding inwards



\* to be provided by customer

### Options folding hinges

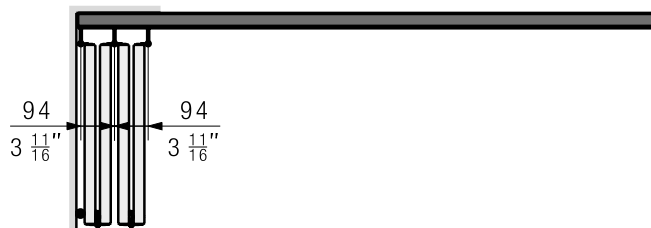


Variant 1, flat hinge: Z = 1–6 mm (1/32" to 1/4")

### Planning folding package

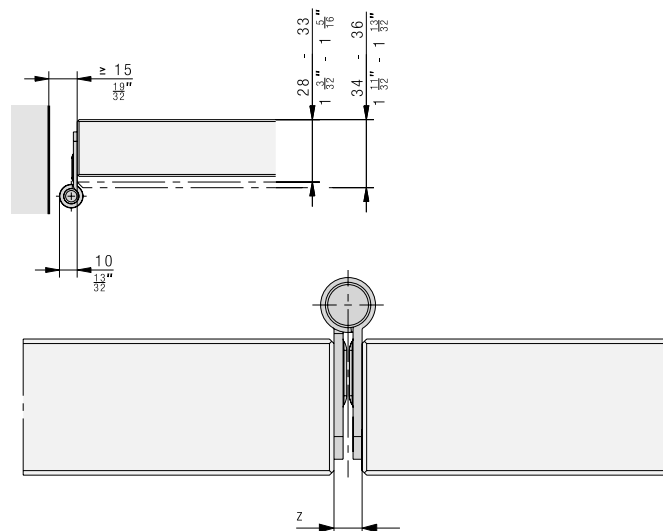
Customer installation of a wind support is recommended.

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



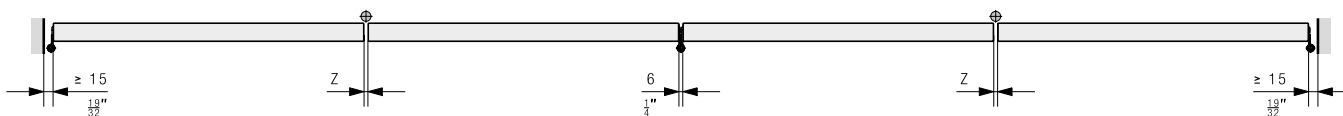
### Running gear and guide hinge

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")

### 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](http://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



## Flexibility

Solution for any construction situation with doors of up to 1.2 m<sup>2</sup> (13 ft<sup>2</sup>) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16")



## Security

## Corrosion-resistant materials for use in coastal areas without reservations

## Technical specifications



Max. 30 kg (66 lbs.)



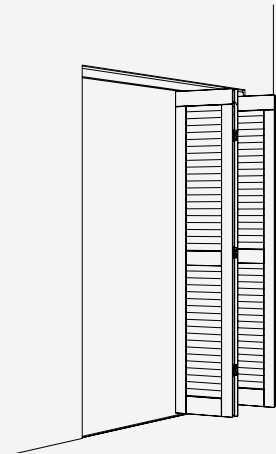
Max. 3200 mm (10'5 31/32")



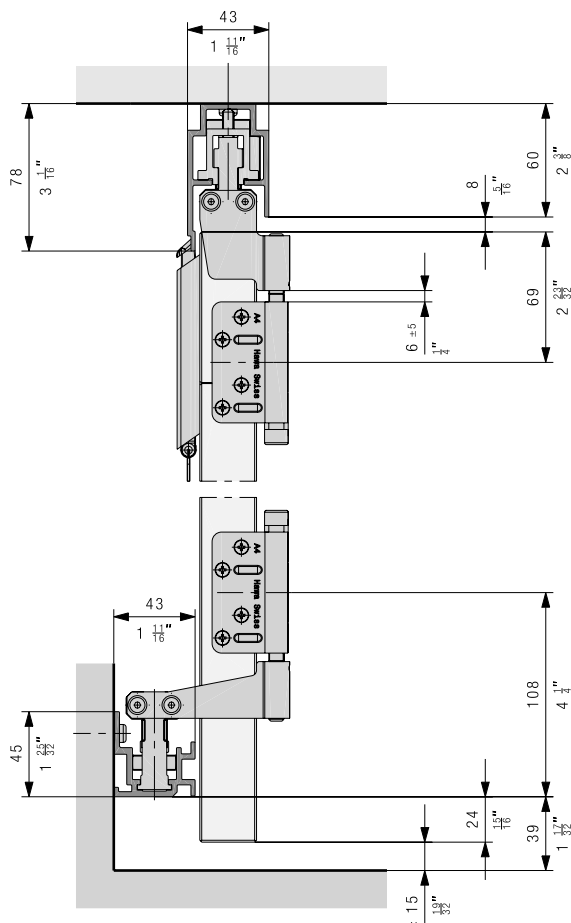
Max. 600 mm (1'11 5/8")






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 top	27565
	Hawa Frontfold 30 MS, additional set, guide track open at the top	27566








**Set consisting of:**

		27564	27565	27566	No.
	Fixed suspension, Inslide, folding to the right	1			27523
	Running gear outside, 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
	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 leaves**

	No.
Hawa Frontfold 30 MS oo, set for uneven number of leaves left	30172
Hawa Frontfold 30 MS oo, set for uneven number of leaves right	30174

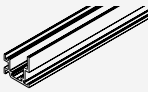


**Set consisting of:**

		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
	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, aluminum, anodized	6000 (19'8 7/32")	27362
		cut to size	27624

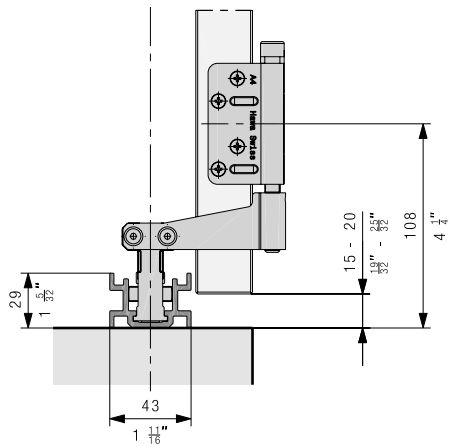
## Guide tracks

		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

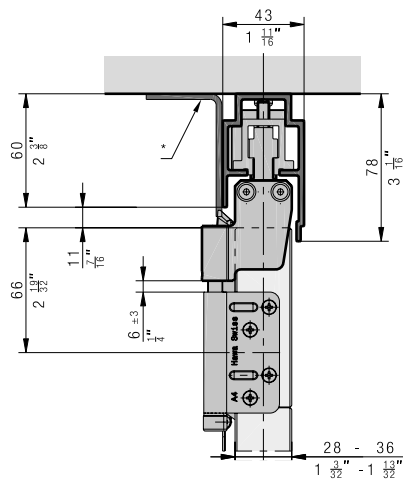
## Accessories

		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
	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
	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

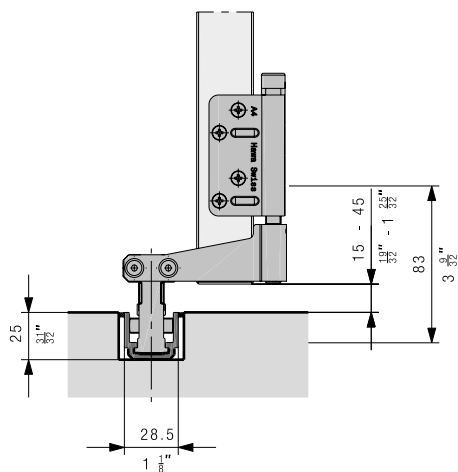


### Running track folding inwards



\* to be provided by customer

### Guide track embedded in the floor

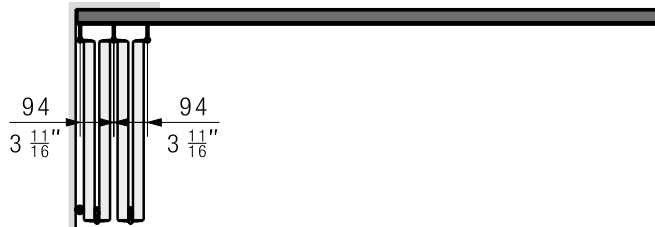




### Planning folding package

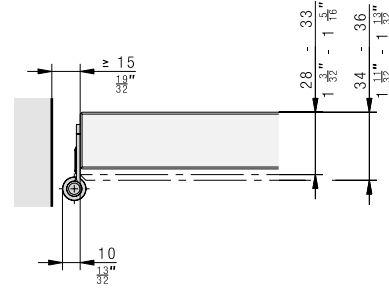
Customer installation of a wind support is recommended.

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

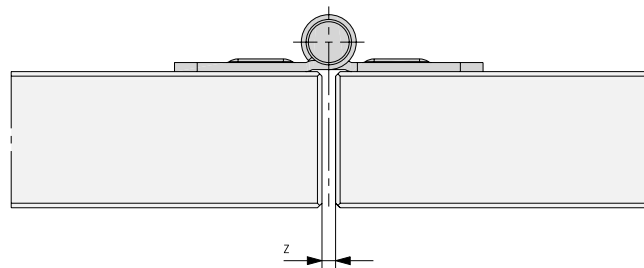


### Running gear and guide hinge

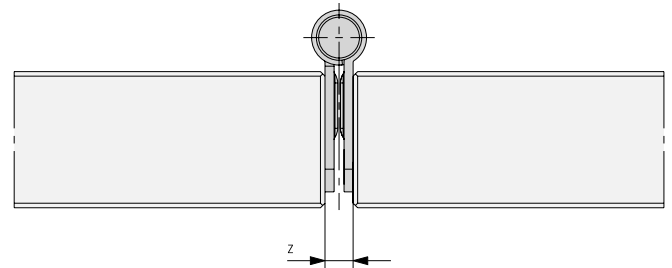
With folding sliding shutters more than 33 mm (1 5/16") thick, the hinges must be embedded.



### Options folding hinges

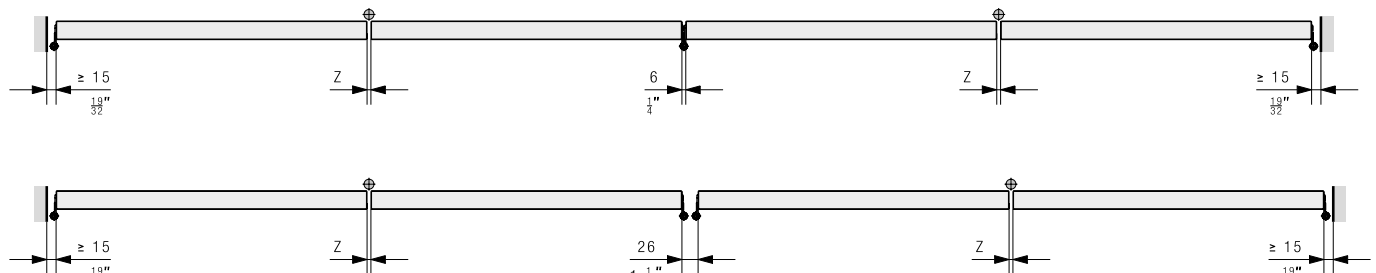


Variant 1, flat hinge: Z = 1–6 mm (1/32" to 1/4")



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](http://www.hawa.com).

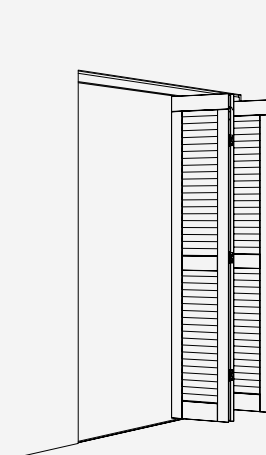
**Fitting for 2–10 folding sliding shutters made of wood or metal up to 30 kg (66 lbs.) per shutter and 180 kg (397 lbs.) per system. Inside running for tight spaces. Design Inside.**

### Product highlights

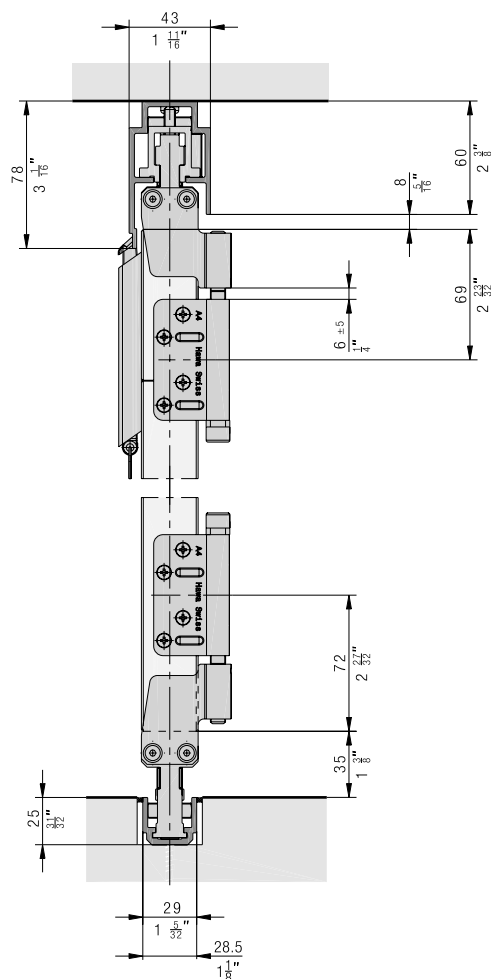
-  **Flexibility** Solution for any construction situation with doors of up to 1.2 m<sup>2</sup> (13 ft<sup>2</sup>) and 30 kg (66 lbs.), even/odd number of doors and system width of up to 12 m (39' 4 7/16")
-  **Flexibility** Tension latches available for inwards-folding systems

### Technical specifications




-  Max. 30 kg (66 lbs.)
-  Max. 3200 mm (10'5 31/32")
-  Max. 600 mm (1'11 5/8")
-  28–36 mm (1 3/32"–1 13/32")

















### Installation examples



**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, Inside, folding to the right	1			27523
	Running gear outside, Inside, folding to the right	1			27524
	Fixed guide, Inside, folding to the right	1			27539
	Outside guide, Inside, folding to the right	1			27540
	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, Inside, folding to the left		1		27522
	Running gear outside, Inside, folding to the left		1		27525
	Fixed guide, Inside, folding to the left		1		27538
	Outside guide, Inside, folding to the left		1		27541
	Centre running gear, Inside			1	27526
	Centre guide, Inside			1	27542
	Hinge plate cranked, two pieces, stainless steel A4			4	27419

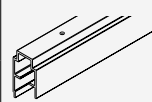
**Set for uneven number of leaves**

	No.
Hawa Frontfold 30 IS, set for uneven number of leaves left	30175
Hawa Frontfold 30 IS, set for uneven number of leaves right	30176


**Set consisting of:**

		30175	30176	No.
	Fixed suspension, Inside, folding to the left	1		27522
	Fixed guide, Inside, folding to the left	1		27538
	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, Inside, folding to the right		1	27523
	Fixed guide, Inside, folding to the right		1	27539













**Running tracks**

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

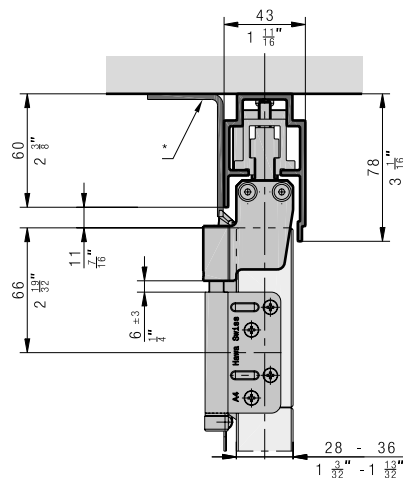
**Guide tracks**

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

## Accessories

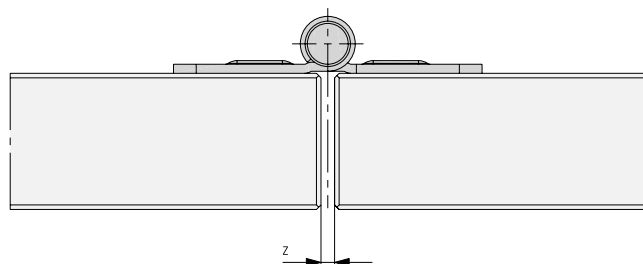
		No.
	Tension latch, opening outwards, with steel cable, without fixing screws	27490
	Tension latch, opening inwards, with steel cable, without fixing screws	27491
	Rotary handle for tension latch, stainless steel	27458
	Flat hinge, gap size 1–6 mm (1/32" to 1/4"), stainless steel A4	27421
	Cranked hinge, 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
	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
	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 latch folding inwards	30464

### Running track folding inwards



\* to be provided by customer

### Options folding hinges

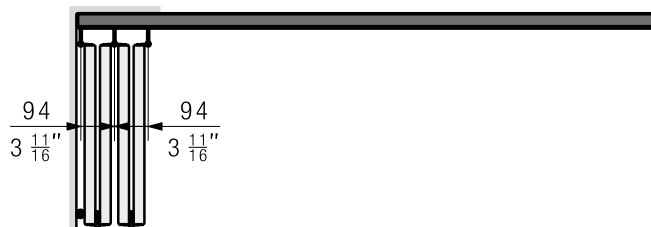


Variant 1, flat hinge: Z = 1–6 mm (1/32" to 1/4")

### Planning folding package

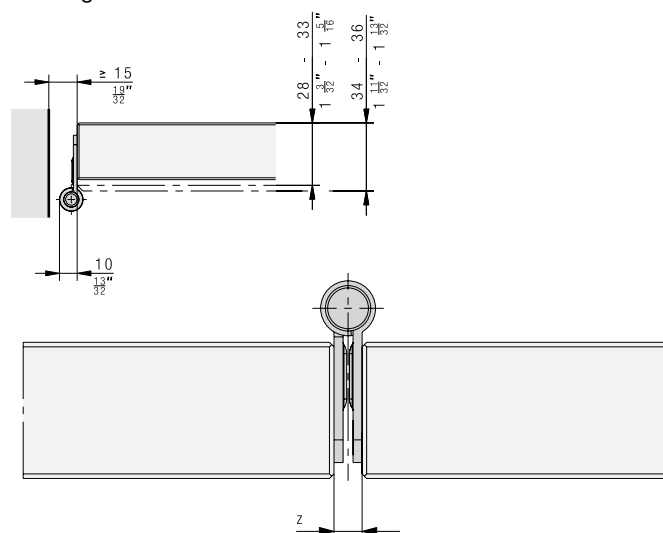
Customer installation of a wind support is recommended.

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



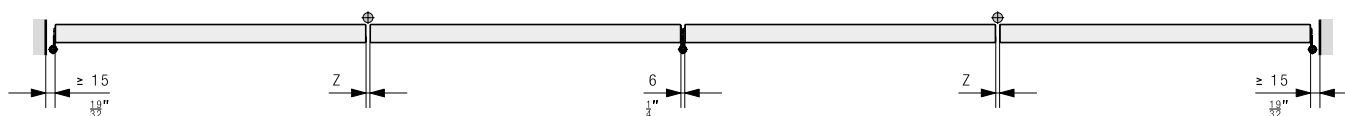
### Running gear and guide hinge

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")

### 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

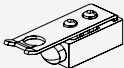


### Planning/execution

Further information about the product can be found on [www.hawa.com](http://www.hawa.com).


## Accessories

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


	No.
Sliding shutter locking, complete	19319

		19319	No.
<b>Set consisting of:</b>			
	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

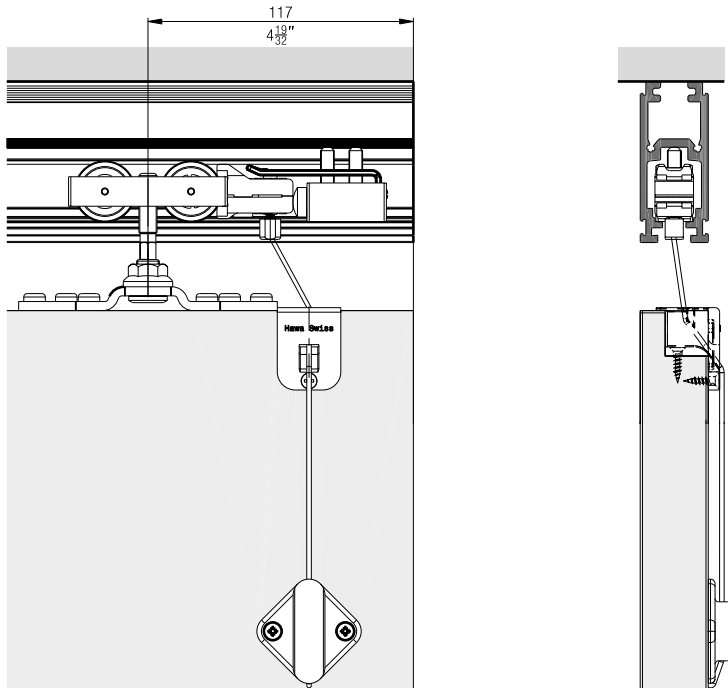
### Sliding shutter arrester up to 140 kg (309 lbs.)

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

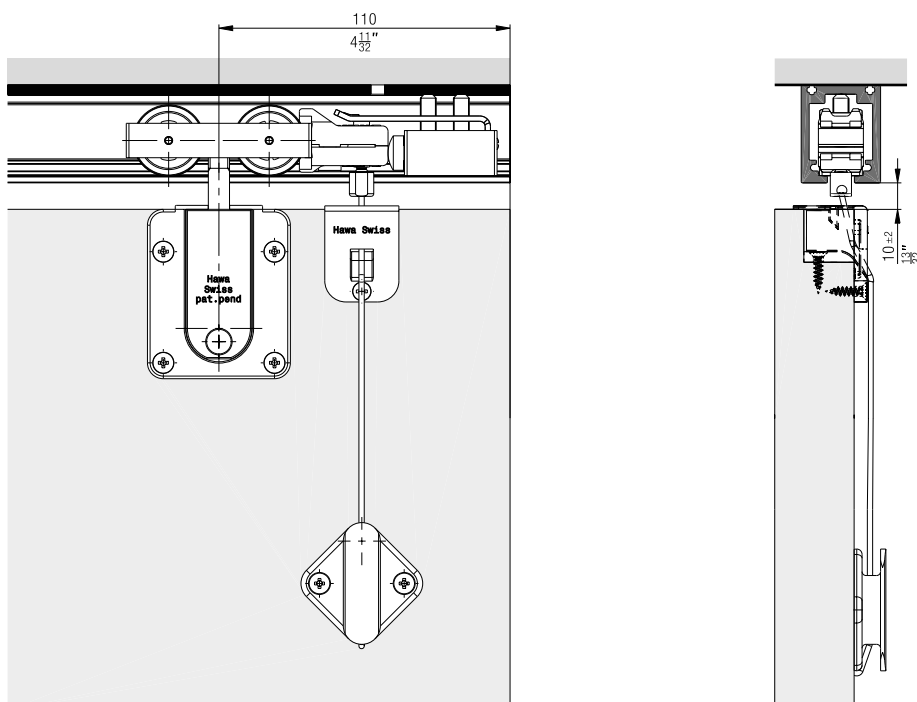
## Sliding shutter interlocking up to 60 kg (132 lbs.)

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



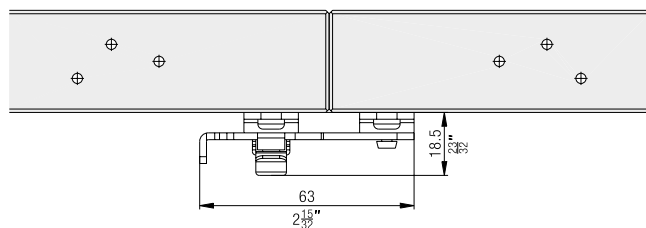
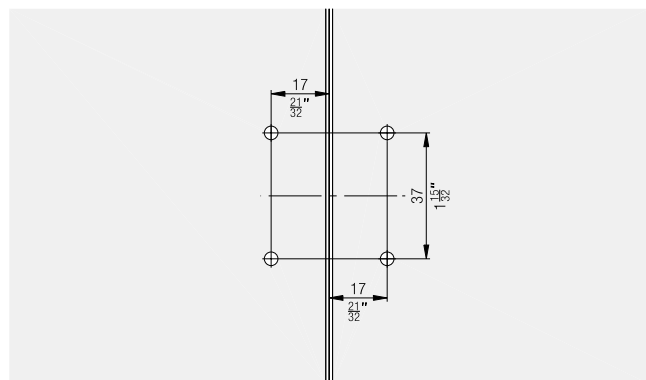
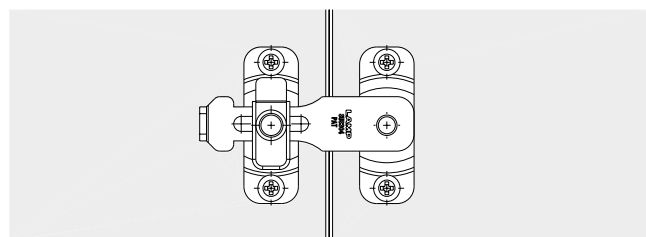
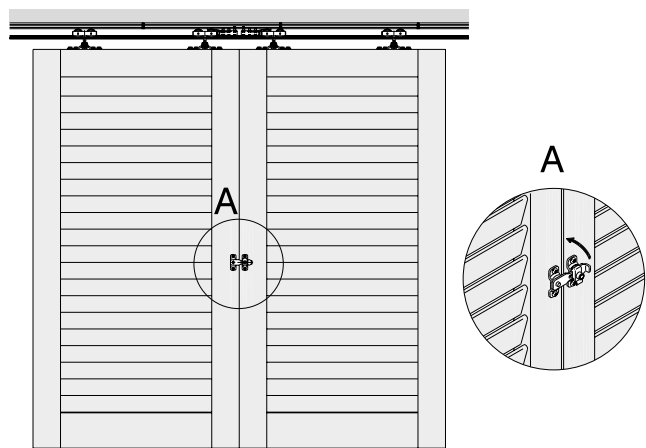
## Sliding shutter interlocking in combination with Hawa Frontslide 60 B



## Accessories

### 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.

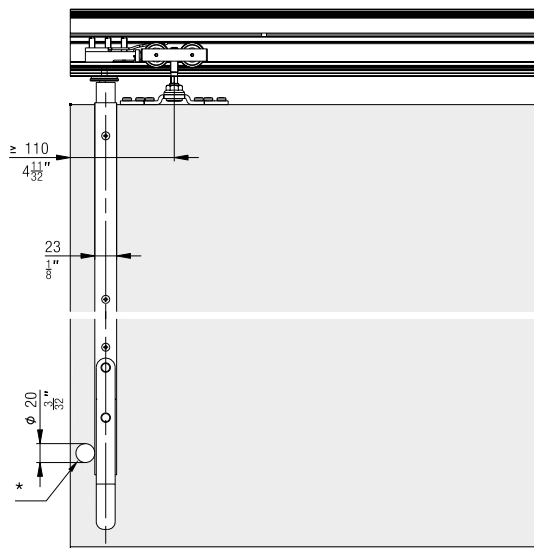
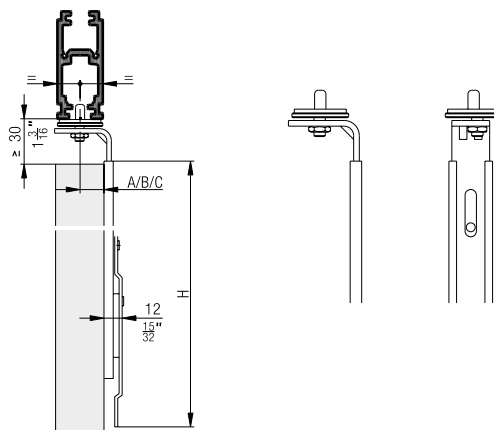


### Sliding shutter arrester up to 140 kg (309 lbs.)

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

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

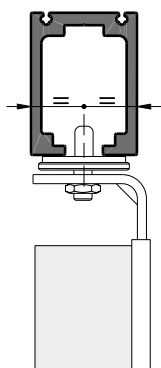
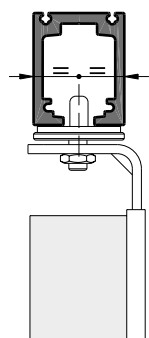
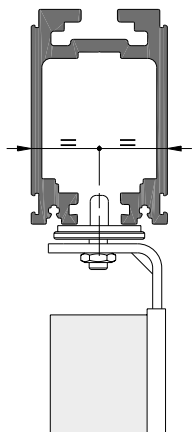
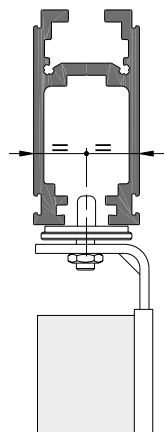
Two different installation lengths are available in order to have an optimum handle position.



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



### Further installation examples



# Hawa Frontfold

## Order overview

Number of leaves		2*		3*		4		5	
left	right	V	V W	W	W W	W W	W W	W W	W W
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 bottom (Page 168)		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 bottom (Page 177)		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

Running and guide track according to the construction situation on the corresponding sidest

Accessories									
Rotary handle		1× 27458	1× 27458	2× 27458	2× 27458	2× 27458	2× 27458	3× 27458	3× 27458
Tension latch folding 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 flat	LH < 2m	2× 27421	2× 27421	2× 27421	2× 27421	4× 27421	4× 27421	4× 27421	4× 27421
	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 cranked	LH < 2m	2× 27595	2× 27595	2× 27595	2× 27595	4× 27595	4× 27595	4× 27595	4× 27595
	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 > 1m² double the number of tension latches is necessary to achieve wind resistance class 6

6		7		8		9		10	
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

Running and guide track according to the construction situation on the corresponding sides

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

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



## On buildings

	Technical specifications							Design/installation					Exterior application	
<b>Sliding shutters</b>														
<b>Hawa Frontslide</b>	60/100/140	28-60	3200	min. 400				X	X	X	X		X	
Hawa Frontslide 60 A	60	min. 28	3200	400-3750	9.6	7500	9.6		X				X	
Hawa Frontslide 60 A Symmetric 2	60	28-45	3200	500-1500	3.84	6000	7.4		X				X	
Hawa Frontslide 60 A Symmetric 2+2	40	28-40	3200	550-1000	3.2	6000	12.8	X		X	X		X	
Hawa Frontslide 60 A Telescopic 2	60	28-40	3200	550-1200	3.84	3500	7.4	X		X	X		X	
Hawa Frontslide 60 A Telescopic 3	60	28-40	3200	550-1200	3.84	4650	11	X		X	X		X	
Hawa Frontslide 60 A Telescopic 4	60	28-40	3200	550-1200	3.84	5800	14.7	X		X	X		X	
Hawa Frontslide 60 A Low running track	60	28-45	3200	400-3750	9.6	7500	9.6		X				X	
Hawa Frontslide 60 B	60	28-40	3200	400-3750	9.6	7500	9.6		X				X	
Hawa Frontslide 100 A	100	28-50	3200	500-3750	9.6	7500	9.6		X				X	
Hawa Frontslide 100 A Symmetric 2	100	28-50	3200	550-1500	3.84	6000	7.4		X				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	X		X	X		X	
Hawa Frontslide 100 A Telescopic 4	100	28-40	3200	600-1200	3.84	5800	14.7	X		X	X		X	
Hawa Frontslide 100 A Low running track	100	min. 28	3200	500-3750	9.6	7500	9.6		X				X	
Hawa Frontslide 140 A	140	28-60	3200	700-3750	9.6	7500	9.6		X				X	
Hawa Frontslide 140 A Symmetric 2	140	28-60	3200	700-1500	3.84	6000	7.4		X				X	
Hawa Frontslide 140 A Telescopic 2	140	28-40	3200	700-1200	3.84	6000	7.4	X		X	X		X	



## On buildings

	Technical specifications							Design/installation					Exterior application	
<b>Sliding shutters</b>														
<b>Hawa Frontslide Matic</b>	60/100/140	28-60	3200		6.24	7500	14.7	X	X	X	X		X	
Hawa Frontslide 60 Matic	60	28-45	3200	600-3750	6.24	7500	6.24		X				X	
Hawa Frontslide 60 Matic Symmetric 2	60	28-45	3200	550-1875	6.24	7500	12		X				X	
Hawa Frontslide 60 Matic Symmetric 2+2	40	28-40	3200	650-1200	3.84	7000	14.7	X		X	X		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	X		X	X		X	
Hawa Frontslide 60 Matic Telescopic 4	40	28-40	3200	650-1200	3.84	5800	14.7	X		X	X		X	
Hawa Frontslide 100 Matic	100	28-50	3200	650-3750	6.24	7500	6.24		X				X	
Hawa Frontslide 100 Matic Symmetric 2	80	28-50	3200	600-1875	6.24	7500	12		X				X	
Hawa Frontslide 100 Matic Symmetric 2+2	70	28-40	3200	650-1200	3.84	7000	14.7	X		X	X		X	
Hawa Frontslide 100 Matic Telescopic 2	90	28-40	3200	650-1200	3.84	3500	7.4	X		X	X		X	
Hawa Frontslide 100 Matic Telescopic 3	80	28-40	3200	650-1200	3.84	4650	11	X		X	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		X				X	
Hawa Frontslide 140 Matic Symmetric 2	100	28-60	3200	750-1875	6.24	7500	12		X				X	
Hawa Frontslide 140 Matic Telescopic 2	140	28-40	3200	750-1200	3.84	3500	7.4	X		X	X		X	
<b>Folding sliding shutters</b>														
<b>Hawa Frontfold</b>	30	28-36	3200	200-600		12000	38.4	X					X	X
Hawa Frontfold 30 IS	30	28-36	3200	200-600		2x6000	2x19.2	X					X	X
Hawa Frontfold 30 MS	30	28-36	3200	200-600		2x6000	2x19.2	X					X	X
Hawa Frontfold 30 FS	30	28-36	3200	200-600		2x6000	2x19.2	X					X	X
<b>Hawa Frontego</b>	30	28-32	700-3200	300-600	1.92	3.6 m	2x12	X					X	X
Hawa Frontego 30 Matic	30	28-32	700-3200	300-600	1.92	3.6 m	2x12	X					X	X
<b>Special solution, stackable</b>														
<b>Hawa Aperto</b>	60	35-50	2600	550-950	2.47	min. 550	min. 1	X					X	
Hawa Aperto 60 H	60	35-50	2600	550-950	2.47	min. 550	min. 1	X					X	
<b>Windows</b>														
<b>Hawa Vertical</b>	150	85	1200	3200*					X				X	X
Hawa Vertical 150	150	85	1200	3200*					X				X	X

\* 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 m<sup>2</sup>.

### 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 1.2m<sup>2</sup>. Larger shutters must be perforated accordingly as the wind resistance class will be reduced otherwise.
- From 1m<sup>2</sup> 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](mailto:info@hawa.com)

### Overview of wind resistance classes

DIN EN 13659	Wind resistance classes						
	0	1	2	3	4	5	6
Nominal wind pressure (N/m <sup>2</sup> )	<50	50	70	100	170	270	400
Safety pressure (N/m <sup>2</sup> )	<75	75	100	150	250	400	600
Wind velocity	< 32.5 km/h < 9 m/s	32.5 km/h 9 m/s	38 km/h 10.7 m/s	46 km/h 12.8 m/s	60 km/h 16.7 m/s	76 km/h 21.0 m/s	92 km/h 25.6 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

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

# Wherever you are – we are there for you

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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 Mettmnenstetten (headquarters)  
Untere Fischbachstrasse 4  
8932 Mettmnenstetten, Switzerland

### Hawa Sliding Solutions AG

Factory Sirmach  
Wilerstrasse 90  
8370 Sirmach, 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.

### Hawa Group Americas Inc.

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

### 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.

### Hawa Sliding Solutions APAC Pte. Ltd

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

### 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 Middle East FZE

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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 buildings	Technical specifications							Design/installation					Operation		Exterior application	
																
<b>Sliding shutters</b>																
Hawa Frontslide	60/100/140	28-60	3200	min. 400	9,6	7500	14.7	X	X	X	X				X	
Hawa Frontslide Matic	60/100/140	28-60	3200	min. 550	6,24	7500	14.7	X	X	X	X				X	
<b>Folding sliding shutters</b>																
Hawa Frontfold	30	28-36	3200	200-600		12000	38.4	X							X	X
Hawa Frontego	30	28-32	700-3200	300-600	1.92	3.6 m	2x12	X							X	X
<b>Special solution, stackable</b>																
Hawa Aperto	60	35-50	2600	550-950	2.47	min. 550	min. 1	X							X	
<b>Windows</b>																
Hawa Vertical	150	85	1200*	3200**					X						X	X

\* 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 buildings

Technical specifications							Installation							Operation	Recommended application			Exterior application	

### Wood

#### Sliding doors

Hawa Junior	40/80/ 100/120 160/250	35–80	4000	3000		40/80/ 100/120	X	X	X	X		X			X	X	X		
Hawa Media	70	35–80	4000	3000			X	X		X					X	X			
Hawa Ordena	70	30–40	2600	3000				X	X	X					X	X			
Hawa Porta	40/45/ 60/100 300/600	18–100	6000	5000		40/60/ 100	X	X	X	X					X	X	X		
Hawa Silenta	150	35–80	4000	3000				X	X	X					X	X			
Hawa Super	500	45–100	6000	5000			X	X		X					X	X	X		
Hawa Suono	100	min. 51	2700	700	1340	X	X			X					X	X	X		

#### Sliding walls

Hawa Aperto	60	35–50	2600	550–1500	13600			X		X		X			X	X	X	X	
Hawa Junior	80	32–80	4000	500–1200	6750			X		X		X			X	X	X		
Hawa Divido	100	28–30	2400	1200	6000	X	X	X	X	X	X				X	X	X		
Hawa Variotec	150	36–68	4000	700–1500	12000			X		X		X			X	X	X		

#### Folding sliding walls

Hawa 20 c Folding wall	120	42–80	4000	1000	7000			X		X		X			X	X	X		
Hawa Centerfold	80	35–45 (57)	4000	500–900	6000			X	X	X		X			X	X	X		
Hawa Variofold	80	35–45 (57)	4000	500–900	6310			X	X	X		X			X	X	X		

#### Transport systems

Hawa Varioflex	40	35–80	4000	900				X		X						X			
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### Glass

#### Sliding doors

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				X	X	X					X	X	X		
Hawa Porta	40/100	6–12.7	2700	1600		40/60/ 100	X	X	X	X					X	X	X		
Hawa Puro	150	8–12.7	3000	750–3000				X	X	X					X	X	X		
Hawa Purolino Plus	80	8–12.7	3000	600–3000		X	X	X	X	X					X	X	X		
Hawa Super	250	8–80	4000	3000			X	X		X						X	X		

#### Sliding walls

Hawa Aperto	60	8–10 (30)	2600	500–1100	10900			X		X		X			X	X	X	X	
Hawa Divido	100	5.9–10 (30)	2750	1200	6000	X	X	X	X	X	X				X	X	X		
Hawa Shopfront	400	8–16 (50)	3500	3000	12000			X		X						X	X	X	
Hawa Variotec	150	10–13 (36)	3500	700–1500				X		X		X				X	X	X	

#### Folding sliding walls

Hawa Centerfold	80	10–13 (36)	2600	500–900	6000			X	X	X		X				X	X	X	
Hawa Variofold	80	10–13 (36)	2600	400–900	6310			X	X	X						X	X	X	
Hawa Junior	80	8–16 (26)	3000	500–1200	3700			X		X		X			X	X	X		

#### Shower

Hawa Banio	40	8–9	2200	800	1500	X	X			X					X	X	X		
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On  
furniture

		Technical specifications					Design/installation							Operation		Recommended application		
Wood																		
Sliding doors																		
Hawa 220 Planfront	70	19–45	2600	400–1500					X			X	X			X	X	X
Hawa Aperto	40	19–25	2600	400–900					X							X	X	X
Hawa Clipo	15/16/ 26/36	10–25	2400	1200	X	X	X	X	X			X				X	X	X
Hawa Combino	20/35/ 40/50/ 65/80	19–40	2800	1600	X	X	X	X				X				X	X	X
Hawa Creation	65/80	6/19	2200	1200	X	X		X								X	X	X
Hawa Frontal	25	19	2000	800	X			X								X	X	X
Hawa Frontino	20/40	19–25	2400	600–1200	X							X				X	X	X
Hawa Libra	20	16–30	1000	1600					X			X				X	X	X
Hawa Miniroll	15/25	19–40	2600	1500		X										X	X	X
Hawa Regal A	25/40	19–50	2500	1200	X							X				X	X	X
Hawa Regal B	25	16–50	2000	1200	X	X			X			X				X	X	X
Hawa Regal C	16/26	16–19	2200	1200	X	X			X			X				X	X	X
Pivot and folding/sliding doors																		
Hawa Concepta III	25/35	18–26	1200–2700	440–750	X				X			X	X	X	X	X	X	X
Hawa Concepta	25/30/ 40/50	19–50	1250–2850	300–900	X				X	X	X	X		X		X	X	X
Hawa Folding Concepta	25	19–26	1250–2600	300–700					X	X	X	X		X		X	X	
Folding sliding doors																		
Hawa Multifold	30	19–25	2600	200–650					X	X	X					X	X	X
Pull-outs																		
Hawa Forte	170/340	16–40	2400	800	X							X			X	X	X	X
Glass																		
Sliding doors																		
Hawa Clipo	16/26/36	4–8 (12/20)	2000	1000	X	X			X							X	X	X
Hawa Frontal	25	4/6 (20/22)	2200	800	X			X								X	X	X
Hawa Regal A	25	4 (22)	2200	1200								X				X	X	X
Hawa Regal B	25	4–8	1800	1200	X							X				X	X	X
Hawa Regal C	16/26	4–6.35 (12/20)	2000	1000	X	X						X				X	X	X

# Index icons

## Area of application



On buildings




In buildings




On furniture


## Technical specifications




Weight




Thickness




Height




Width




Soft closing mechanism




Max. area per door



Max. system width




Max. area




Max. opening width


## Design




IS Inslide




MS Mixslide




FS Forslide



IS Inslide  
Flush-fitting/  
on one level




MS Mixslide  
Flush-fitting/  
on one level




FS Forslide  
Flush-fitting/  
on one level


## Installation




Fully opening




Half opening




Wall mounting




Ceiling mounting



Ceiling mounting  
recessed



Top-running



Bottom-running

## Operation



Push



Pull

## Recommended application



Load  
Light load  
Private access



Load  
Medium load  
Semi-public access



Load  
High load  
Public access



Inland  
More than 20 km  
from the coast



Coastal area  
Less than 20 km  
from the coast



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