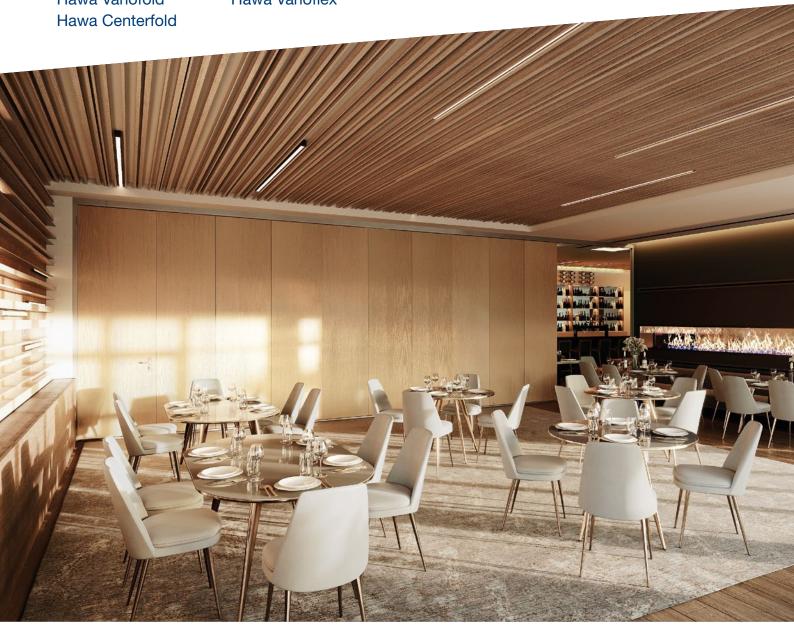


Architectural hardware wood

Hawa Ordena Hawa Aperto
Hawa Silenta Hawa Variotec
Hawa Media Hawa Vertical
Hawa Variofold Hawa Varioflex



www.hawa.com Rethink your space.

Quality, Support and Service

About Hawa Sliding Solutions

Our metier since 1965 has been pivoting, sliding and folding hardware systems – along with the fascinating applications they have opened for our customers. Thus, we have grown into a name of international repute within our specialist areas of glass/metal/wood architectural hardware, and hardware for furniture.

We – and hence our customers – are totally committed to Swiss quality. Despite the fact that we now export over 80% of our output, production is located at home in Mettmenstetten. This is not least because our business philosophy is still based on characteristically Swiss values like precision, reliability, and durability.

About this catalogue

Optimising space, creating rooms, solving problems, saving time – our hardware carries an impact that reaches far beyond its essential sliding, stacking and folding functionality. This catalogue provides you with detailed ordering information and technical data for our entire range of glass/metal folding and sliding hardware systems. And should you have a specific requirement in the pipeline, please contact us – we are happy to be of help.

Find out about the rest of the Hawa range:

Architectural hardware glass/metal

- Glass sliding doors with patch suspension
- Glass sliding doors with suspension/retainer profiles
- Glass sliding walls
- Metal sliding doors

Catalogue order no: 15752

Furniture hardware

- Sliding cabinet/wardrobe doors
- Side stacking cabinet/wardrobe doors
- Pivot sliding furniture doors
- Folding cabinet/wardrobe doors, panels can be moved freely to and fro
- Folding cabinet/wardrobe doors

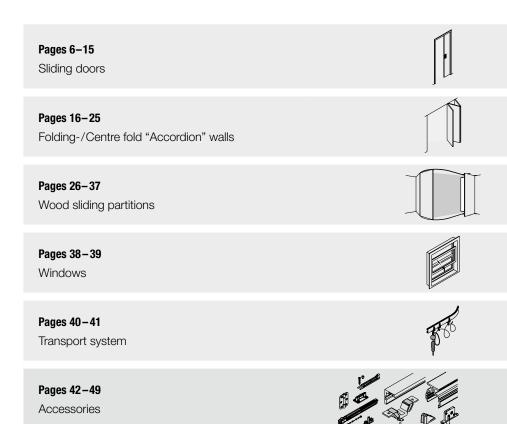
Catalogue order no: 15282

Hardware for folding and sliding shutters

- Manual sliding shutters
- Automatic sliding shutters
- Manual folding sliding shutters
- Automatic folding sliding shutters

Catalogue order no: 20896

Content



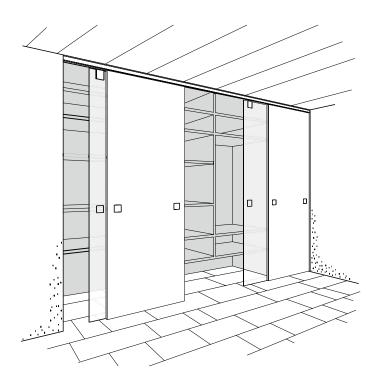
Pages 50-52

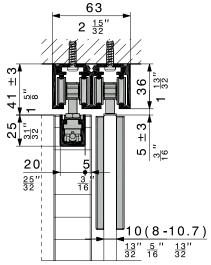
General Terms and Conditions (GTC)

Product index

	Recomn	nended applica	ations in:	For exte	ernal use	Curved installations	Мо	de of fixing
	Residential buildings	Public buildings	Industrial buildings	Non coastal areas	Coastal areas	Minimum radius mm/inch	Wall fitting	Ceiling fitting
Sliding doors	•	0		0				•
	•	•	•	0				•
8	•	0	•			500 (1'7 ¹¹ / ₁₆ ")	•	•
Folding-/Centre fold "Accordion"	•	•	0	0				•
, command	•	•	0	0				•
1	•	•	•					•
	•	•		0				•
	J							
Wood sliding partitions	•	0		•	0	2000 (6'6\frac{3}{4}")		•
	•	•	0	0		4000 (13'1 ¹ / ₂ ")		•
Windows	•	•	0	•	0			
Transport system	•	•	•			500 (1'7 ¹¹ / ₁₆ ")		•
Accessories								
	•	0						
Miscellaneous								
	• possible	under certain o	conditions					

				-			
Track noi	ise levels	www.h	awa.ch				
Low thanks to plastic roller surface	Relatively high because steel roller surface	Hawa Productfinder → full information	Hawa Systemplanner → planning and quoting	Hardware systems	Maximum d	oor weight	Pages
•		•		Hawa Ordena 70 P	70 kg	154 lbs.	6
•		•		Hawa Ordena 70 F	70 kg	154 lbs.	10
•		•		Hawa Silenta 150 B	150 kg	330 lbs.	14
•		•		Hawa Media 70	70 kg	154 lbs.	15
•		•	•	Hawa Variofold 80 H	80 ka	176 lbs.	16
•		•	•				20
	•	•					24
•							
				Hawa Aperto 60 H	60 ka	132 lbs	26
•		•	•				32
						000 1.001	<u> </u>
•		•		Hawa Vertical 150/3, 150/5	150 kg	330 lbs.	38
•		•		Hawa Varioflex 40 TS	40 kg	88 lbs.	40
				Bottom auides. Locks			42
				<u> </u>			46
				Hinges, Profiles			48
				General Terms and Conditions (GTC)			50
	Low thanks to plastic roller surface		Low thanks to plastic roller surface plastic roller surface steel roller	Low thanks to plastic roller surface Relatively high because steel roller surface steel roller surface Hawa Productfinder In the planning and quoting and quoting and quoting	Button guides, Locks Hawa Variofies Button guides, Locks Hawa Silent Stop, -Bar bolt lock, -Doorfix Hinges, Profiles	Bull Bull	September Sept







Hardware system with patch-fitting floor guides for wooden and/or glass sliding doors weighing up to 70 kg (154 lbs.).

Description

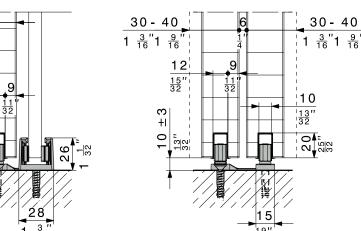
A fit-anywhere, frameless sliding hardware system for wooden and glass sliding doors weighing up to 70 kg (154 lbs.). Ideal not only for walk-in closets, but also for room-height and flexible partitions in residential and office settings. The possibility of combining glass and wood sliding doors gives new freedom to architects and installers. Patch-fitting, rattle-proof floor guides are available for all wood and/or glass combinations. Hawa Ordena 70 P has also been designed with problem-free retrofitting in mind.

Applications

Everywhere that variable space utilisation and unrestricted access should leave a tidy impression, e.g. walk-in closets for office and residential settings, and as a partition or aesthetic room divider in hotels, restaurants, hospitals, schools, offices, and private residential interiors.

Features of the Hawa Ordena 70 P

- Top-running sliding system, impervious to dust and dirt
- Possibility to combine wood and glass sliding doors
- Patch-fitting, rattle proof floor guide
- Frameless and easy to install
- Maximum door weight 70 kg (154 lbs.)
- Maximum door height 2600 mm (8'6 $\frac{3}{8}$ ")
- Minimum door width 600 mm $(1'11\frac{5}{8}")$
- Door thickness, wood 30-40 mm (13/16 -139)
- Door thickness, glass: ESG (fully tempered monolithic glass): 8/10 mm $(\frac{5}{16}"/\frac{13}{32}")$ VSG (fully tempered laminated glass): 8,7–10,7 mm $\left(\frac{11}{32} - \frac{7}{16}\right)$
- 2-8 mm $\left(\frac{3}{32} \frac{5}{16}\right)$ minimum clearance between the running track and the top edge of the sliding door
- Glass doors use popular Hawa Junior GP suspensions



 $2\frac{3}{32}$ Subject to modification. Metric specifications are exact. Inches are approximate.

+1

10(8-10.7)

13" 5" 13'

 $\frac{30 - 40}{1 \cdot \frac{3}{16} \cdot 1 \cdot \frac{9}{16} \cdot 1}$

12

15' 32



Partial sets Hawa Ordena 70 P

		code
Have Ordena 70 partial acts for 1 da	wood	19120
Hawa Ordena 70, partial sets for 1 door	glass (ESG¹/VSG²)	20586

Partial sets comprising

		19120	20586	code
Co To	Four-wheeled trolley, M7, plastic-tyred wheels	2	2	10374
	Top fixed suspension with plate M7	2	_	19276
	Cover cap for suspension profile, platic anthracite-grey RAL 7016	2	-	21520
e in	Patch suspension with glass holder insert (ESG¹/VSG²)	_	2	20505
	Suspension bolt M7 and mounting screws	_	1	19117
	Hex key, 4 mm ($\frac{5}{32}$ "), length 160 mm (6 $\frac{5}{16}$ ")	1	-	19931

Door stop sets

	number of doors	code
	2-3	20588
Door stop set for systems with point guidance, incl. single use drilling jig, (ESG¹/VSG²)	4-5	20589
mon. Single dae drining jig, (Edd / Vod /	6-7	20590

Sets comprising

		20588	20589	20590	code
	Track stop, plastic, with adjustable retainer	4	8	12	10602
T	Single use drilling jig, (ESG¹/VSG²)	1	1	1	20400
•	Screw-on rubber door stop	2	2	2	10629
5 P	Suspsension assembly locking wrench	1	1	1	10778
	Hex key, 3 mm $(\frac{1}{8}")$ short version	1	1	1	10785
	Vertical adjustment pin	1	1	1	16329

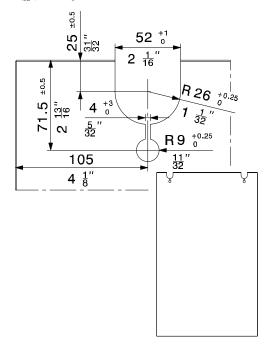
Running tracks

Caution: Hole positions	mm/inch	code	
1.11		2500 (8'2 ⁷ / ₁₆ ")	19213
	Dual running track, alu plain anodized,	3500 (11'5 13 ")	19214
		6000 (19'8 ⁷ / ₃₂ ")	19215
		cut to size	19127
	Single running track, alu plain anodized, predrilled	2500 (8'2 ⁷ / ₁₆ ")	19370
		3500 (11'5 13")	19371
		6000 (19'8 ⁷ / ₃₂ ")	19372
		cut to size	19373

Glass cutouts for sliding door

Both glass ESG (fully tempered monolithic glass) and VSG (fully tempered laminated glass) can be used.

- Glass thickness sliding door ESG (fully tempered monolithic glass): $8/10 \text{ mm} \left(\frac{5}{16}\right)^{1/33}$, thickness tolerance $\pm 0.3 \text{ mm}$
- Glass thickness sliding door VSG (fully tempered laminated glass): $2x4 \pm 0.2 \text{ mm} \rightarrow \text{film thickness } 0.38/0.76/1.52 \text{ mm}$ $2x5 \pm 0.2 \text{ mm} \rightarrow \text{film thickness } 0.38/0.76 \text{ mm}$
- All glass edges are seamed; maximum 1 mm $(\frac{1}{16}")$ in the glass cutout
- VSG (fully tempered laminated glass) permissible with max. offset of 2 mm $(\frac{3}{32}")$ in the glass cutout

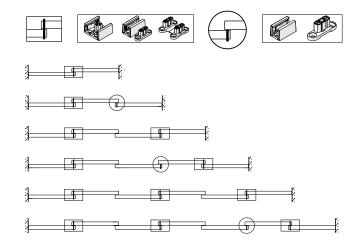


Floor guides

	code
Dual floor guide, rattle-proof, glass/glass, inc. self-adhesive sliders for satinised glass, dull chromium finish	19138
Dual floor guide, rattle-proof, glass/wood, inc. self-adhesive sliders for satinised glass, dull chromium finish	19139
Dual floor guide, screw mounting, rattle proof, wood/wood	19140
Single floor guide, screw mounting, rattle proof, wood	14283
Rattle-proof floor guide inc. self-adhesive sliders for satinised glass, glass thickness $8-12,7$ mm $(\frac{5}{16}"-\frac{1}{2}")$, dull chromium finish	16029
Guide profile plastic black, 20 x 12 x 1300 mm (ईः" x ईः" x 4'3 र्।। groove mounted, set of 10 pieces	14540

Screw-in floor guide variants

Single and dual point guidance.



Cover plates

			code
	Rounded cover plate, plastic,	1 piece	16049
	dull chromium finish	4-pieces set	16042
	Rounded cover plate, plastic,	1 piece	17161
	polished chromium finish	4-pieces set	17160
	Rounded cover plate, plastic,	1 piece	16050
	brass polished	4-pieces set	16043
	Rounded cover plate, plastic,	1 piece	16051
	stainless-steel effect	4-pieces set	16044
	Rounded cover plate, plastic, raw	1 piece	15823
A	Square cover plates, plastic,	1 piece	19091
	dull chromium finish	4-pieces set	19092
	Square cover plates, plastic,	1 piece	19093
	stainless-steel effect	4-pieces set	19094
	Square cover plate, plastic, raw	1 piece	19000

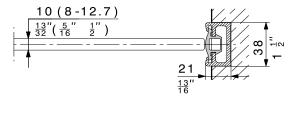


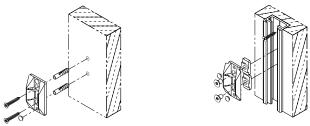
Wall connection profile

Caution: Minor differen	nces in colour are	possible	mm/inch	code
MD.		plain	2500 (8'2 ⁷ / ₁₆ ")	17020
	Wall profile,	anodized	3500 (11'5 13")	17021
	alu, undrilled stainless	stainless- steel effect,	2500 (8'2 7 ")	20119
		brushed	3500 (11'5 13")	20120
	Seal profile, blac	ck,	roll of 2500 (8'2 7)	16452
	for wall profile		roll of 3500 (11'5 13")	16453
	Centering assembly black for all glass sliding doors, to wall profile			18663
Centering assembly grey for all glass sliding doors			18619	

Wall connection profile

The ideal wall connection profile for all-glass sliding doors with unprotected glass edges.



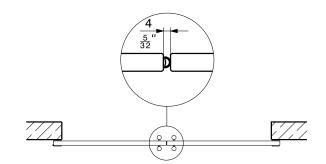


Rubber profile for glass edge protection

		roll of	code
	Rubber profile self-adhesive,	5 m (16'4 ²⁷ ")	19442
Rubber profile self-adhesive, for 8/10 mm ($\frac{6}{20}$ ")	10 m (32'9 ²³ / ₃₂ ")	19443	
	glass distance 4 mm $(\frac{5}{32}")$	50 m (164'½")	19444
	for 8/10 mm $(\frac{5}{16}"/\frac{13}{32}")$ glass thickness, translucent,	5 m (16'4 ²⁷ ")	19445
		10 m (32'9 ²³ / ₃₂ ")	19446
		50 m (164'½")	19447

Rubber profile for glass edge protection

Self-adhesive rubber profile fitted along the glass edge minimises draughts and buffers impacts between adjacent all-glass sliding doors.



Accessories

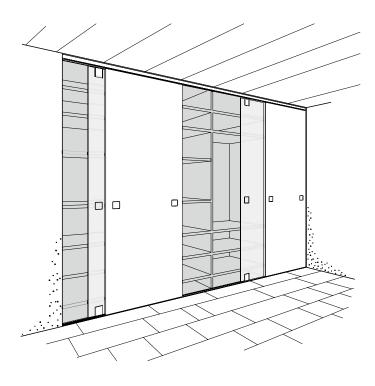
Accessories: → pages 42-47

Order specifications

- Type and quantity of partial sets
- Type and quantity of door stop sets
- Type and quantity of floor guides
- Type and length of running track
- For glass doors
 - Type and quantity of cover plates
 - Length of rubber profile for glass edge protection
 - Quantity of centering assembly for wall connection profile

Planning/installation

Please use the installation drawing code 19433 for planning and execution. (→ www.hawa.ch → Hawa Productfinder)



63 +1 2 | ° | 2 20 10 (8 - 10.7)

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10



Hardware system with continuous bottom guide profile for wooden and/or glass sliding doors weighing up to 70 kg (154 lbs.).

Description

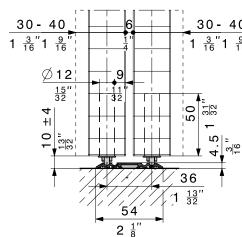
A fit-anywhere, frameless sliding hardware system for wooden and/ or glass sliding doors weighing up to 70 kg (154lbs.). Ideal not only for walk-in closets, but also for room-height and flexible partitions in residential and office settings. The possibility of combining glass and wood sliding doors gives new freedom to architects and installers. The combination of a surface mounted continuous bottom guide profile and spring loaded floor guides easily accommodates differences in floor-to-ceiling height and permits any combination of wood and/or glass. Hawa Ordena 70 F has also been designed with problem-free retrofitting in mind.

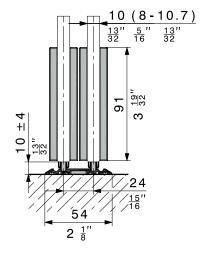
Applications

Everywhere that variable space utilisation and unrestricted access should leave a tidy impression, e.g. walk-in closets for office and residential settings, and as a partition or aesthetic room divider in hotels. restaurants, hospitals, schools, offices and private residential interiors.

Features of the Hawa Ordena 70 F

- Top-running sliding system, impervious to dust and dirt
- Possibility to combine wood and glass sliding doors
- Wide doors are kept firmly on track by two spring loaded floor guides
- Clip or stick-on 4,5 mm ($\frac{13}{16}$ ") high floor guide track
- Frameless and easy to install
- Doors can slide across the entire opening width
- Centre stop to hold sliding doors in position
- Maximum door weight 70 kg (154 lbs.)
- Maximum door height 2600 mm (8'6 3 ")
- Minimum door width 600 mm $(1'11\frac{5}{8}")$
- Door thickness, wood 30–40 mm (1 3/16 -1 19/32)
- Door thickness, glass:
- ESG (fully tempered monolithic glass): 8/10 mm ($\frac{5}{16}$ "/ $\frac{13}{32}$ ") VSG (fully tempered laminated glass): 8,7–10,7 mm $(\frac{7}{32} - \frac{7}{16})$
- $2-8 \text{ mm} \left(\frac{3}{32}\right|^{2}-\frac{5}{16}\right)$ minimum clearance between the running track and the top edge of the sliding doors





Subject to modification. Metric specifications are exact. Inches are approximate.

 $\frac{30 - 40}{1 \frac{3}{16}"1 \frac{9}{16}"}$

Ø12

32

30



Partial sets Hawa Ordena 70 F

		code
Howa Ordona 70 partial cata for 1 dear	wood	19120
Hawa Ordena 70, partial sets for 1 door	glass (ESG ¹ /VSG ²)	20586

Partial sets comprising

		19120	20586	code
Co I Co	Four-wheeled trolley, M7, plastic-tyred wheels	2	2	10374
	Top fixed suspension with plate M7	2	_	19276
	Cover cap for suspension profile, platic anthracite-grey RAL 7016	2	1	21520
e in the second	Patch suspension with glass holder insert (ESG¹/VSG²)	_	2	20505
	Suspension bolt M7 and mounting screws	_	1	19117
	Hex key, 4 mm ($\frac{5}{32}$ "), length 160 mm ($6\frac{5}{16}$ ")	1	_	19931

Door stop sets

	number of doors	code
Door stop set for system with bottom guide channel, incl. single use drilling jig, (ESG¹/VSG²)	2	20588
Door stop set for system with bottom guide channel, incl. centre stop and single use drilling jig, (ESG¹/VSG²)	3	20591
	4	20592
	5	20593
	6	20594

Sets comprising

		20588	20591	20592	20593	20594	code
	Track stop, plastic, with adjustable retainer	4	4	4	4	4	10602
SE PO	Centre stop, complete	_	1	2	3	4	19277
	Single use drilling jig, (ESG¹/VSG²)	1	1	1	1	1	20400
•	Screw-on rubber door stop	2	2	2	2	2	10629
C. P.	Suspsension assembly locking wrench	1	1	1	1	1	10778
	Hex key, 3 mm $(\frac{1}{8}")$ short version	1	1	1	1	1	10785
	Vertical adjustment pin	1	1	1	1	1	16329

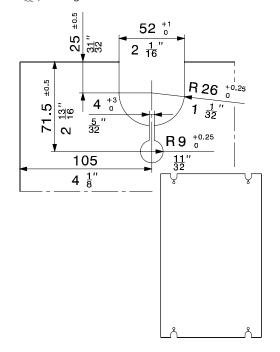
Running tracks

Caution: Hole positions vary		mm/inch	code
1.11	Dual running track, alu plain anodized, predrilled	2500 (8'2 ⁷ / ₁₆ ")	19213
		3500 (11'5 13")	19214
		6000 (19'8 ⁷ / ₃₂ ")	19215
		cut to size	19127
	Single running track, alu plain anodized, predrilled	2500 (8'2 ⁷ / ₁₆ ")	19370
		3500 (11'5 13")	19371
		6000 (19'8 ⁷ / ₃₂ ")	19372
		cut to size	19373

Glass cutouts for sliding door

Both glass ESG (fully tempered monolithic glass) and VSG (fully tempered laminated glass) can be used.

- Glass thickness sliding door ESG (fully tempered monolithic glass): $8/10 \text{ mm} \left(\frac{5}{16}\right)^{1/32}$, thickness tolerance $\pm 0.3 \text{ mm}$
- Glass thickness sliding door VSG (fully tempered laminated glass): $2x4 \pm 0.2 \text{ mm} \rightarrow \text{film thickness } 0.38/0.76/1.52 \text{ mm}$ $2x5 \pm 0.2 \text{ mm} \rightarrow \text{film thickness } 0.38/0.76 \text{ mm}$
- All glass edges are seamed; maximum 1 mm ($\frac{1}{16} \!\!\!")$ in the glass cutout
- VSG (fully tempered laminated glass) permissible with max. offset of 2 mm $(\frac{3}{32}")$ in the glass cutout



Floor guides/bottom guide profile

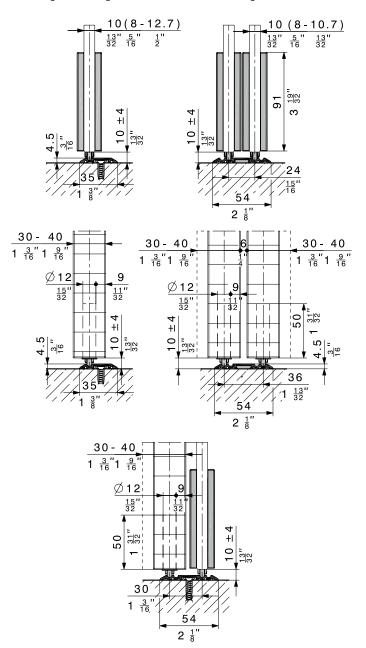
			code	
	Spring bottom guide for 1 glass sliding door (ESG¹/VSG²) (2 pieces)			
ĵĴ	Spring bottom guide for 1 wooden sliding door (2 p	pieces)	19155	
	Dual bottom guide channel, alu plain anodized	2500 mm (8'2 ⁷ / ₁₆ ")	18944	
		3500 mm (11'5 13")	18945	
		6000 mm (19'8 ⁷ / ₃₂ ")	18824	
		cut to size	18946	
	Single bottom guide channel, alu plain anodized	2500 mm (8'2 ⁷ / ₁₆ ")	19348	
		3500 mm (11'5 13")	19349	
		6000 mm (19'8 ⁷ / ₃₂ ")	18956	
		cut to size	19350	
Set of fixing parts for single bottom guide channel, 5 pieces (2 pieces per metre)			19162	
For more guide options: → page 42				

Cover plates

		code
Rounded cover plate, plastic,	1 piece	16049
dull chromium finish	4-pieces set	16042
Rounded cover plate, plastic,	1 piece	17161
polished chromium finish	4-pieces set	17160
Rounded cover plate, plastic,	1 piece	16050
brass polished	4-pieces set	16043
Rounded cover plate, plastic,	1 piece	16051
stainless-steel effect	4-pieces set	16044
Rounded cover plate, plastic, raw	1 piece	15823
Square cover plates, plastic.	1 piece	19091
dull chromium finish	4-pieces set	19092
Square cover plates, plastic,	1 piece	19093
stainless-steel effect	4-pieces set	19094
Square cover plate, plastic, raw	1 piece	19000
	dull chromium finish Rounded cover plate, plastic, polished chromium finish Rounded cover plate, plastic, brass polished Rounded cover plate, plastic, stainless-steel effect Rounded cover plate, plastic, raw Square cover plates, plastic, dull chromium finish Square cover plates, plastic, stainless-steel effect Square cover plate, plastic, stainless-steel effect	Rounded cover plate, plastic, polished chromium finish Rounded cover plate, plastic, polished chromium finish Rounded cover plate, plastic, brass polished Rounded cover plate, plastic, stainless-steel effect Rounded cover plate, plastic, stainless-steel effect Rounded cover plate, plastic, raw 1 piece 4-pieces set 4-pieces set Square cover plates, plastic, stainless-steel effect 1 piece 4-pieces set

Floor guide variants

With single bottom guide channel or dual bottom guide channel.



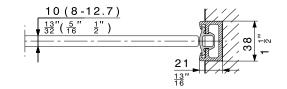


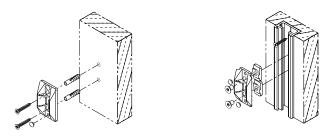
Wall connection profile

Caution: Minor differen	aution: Minor differences in colour are possible mm/inch			
		plain	2500 (8'2 ⁷ / ₁₆ ")	17020
	Wall profile,	anodized	3500 (11'5 13")	17021
	alu, undrilled	stainless- steel effect,	2500 (8'2 ⁷ / ₁₆ ")	20119
		brushed	3500 (11'5 13")	20120
	Seal profile, blac	eal profile, black,		16452
	for wall profile		roll of 3500 (11'5 13")	16453
	Centering assembly black for all glass sliding doors, to wall profile			18663
Centering assembly grey for all glass sliding doors			18619	

Wall connection profile

The ideal wall connection profile for all-glass sliding doors with unprotected glass edges.



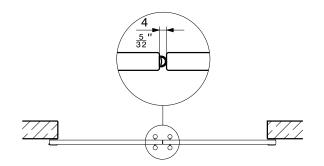


Rubber profile for glass edge protection

		roll of	code
	Rubber profile self-adhesive,	5 m (16'4 ²⁷ ")	19442
	for 8/10 mm $(\frac{5}{5}"/\frac{13"}{22}")$ glass thickness, black, glass distance 4 mm $(\frac{5}{32}")$	10 m (32'93 ")	19443
		50 m (164'½")	19444
	Rubber profile self-adhesive, for 8/10 mm (\(\frac{5}{16}\)^{\frac{13}{18}\)} glass thickness, translucent,	5 m (16'4 ²⁷ ")	19445
		10 m (32'9 ²³ / ₃₂ ")	19446
	glass distance 4 mm ($\frac{5}{32}$ ")	50 m (164'½")	19447

Rubber profile for glass edge protection

Self-adhesive rubber profile fitted along the glass edge minimises draughts and buffers impacts between adjacent all-glass sliding doors.



Accessories

Accessories: → pages 42-47

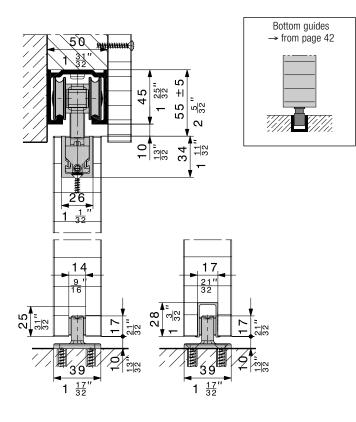
Order specifications

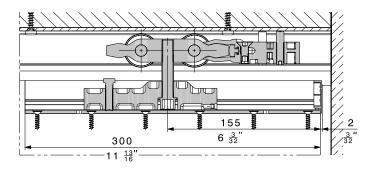
- Type and quantity of partial sets
- Type and quantity of door stop sets
- Type and quantity of floor guides
- Type and length of running track
- Type and length of bottom guide profile
- · For glass doors
 - Type and quantity of cover plates
 - Length of rubber profile for glass edge protection
 - Quantity of centering assembly for wall connection profile

Planning/installation

Please use the installation drawing code 19434 for planning and execution. (→ www.hawa.ch → Hawa Productfinder)







Accessories

Caution: Minor differences in colour are possible				
	Hawa Assembly wedge for s running in the ceiling, set fo	15770		
	Guide profile plastic, black, 3000 mm (9'10 है"), groove mounted, set of 5 pieces			
Bott	Bottom door stop	dull chromium finish	20773	
	with centering assembly	stainless steel effect	21473	
Further accessories: -	→ pages 42 - 47			

Suspension profiles

		mm/inch	code	
Suspension profile, alu plain		6500 (21'3 ²⁹ ")	10346	
	anodized, predrilled	cut to size	10347	
For better distribution of the door weight, for heavy sliding doors we recommend a continuous suspension profile.				

Hardware system for sliding doors weighing up to 150 kg (330 lbs.). For low headroom applications.

Description

The Hawa Silenta 150 B is a highly reliable hardware system which is characterised by a low installation height, quiet operation and extreme

Features of the Hawa Silenta 150 B

- Low headroom applications 55 mm (2 $\frac{11}{64}$ ")
- Plastic-tyred ball bearing wheels
- Track stop, adjustable retaining force
- Lateral fixing of trolleys for sliding doors running in the ceiling
- Vertically adjustable ± 5 mm (⁷/₃₂")

Set for single sliding door, without running track

	code
Hawa Silenta 150 B	15710
For two-panel sliding doors please order two sets for single doors.	

Set comprising

		pieces	code
	Four-wheeled trolley, M12 with plastic-tyred ball bearing wheels	2	15705
	Top fixed suspension, with plate and hanger bolt M12	2	14934
	Cover cap for top fixed suspension, plastic anthracit-grey RAL 7016	2	20907
	Track stop with retaining effect	1	15709
	Screw-on rubber door stop	1	13114
	Guide, rattle proof, for screw mounting to floor, groove width 14 mm $\binom{9}{16}$, black plastic	1	14711
6/	Suspension assembly locking wrench	1	14861

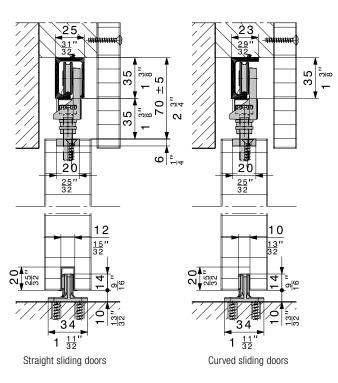
Running tracks

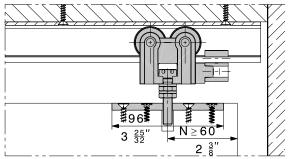
Caution: Hole position:	s vary	mm/inch	code
		2500 mm (8'2 ⁷ / ₁₆ ")	13057
	Running track,	3500 mm (11'5 13")	13058
	alu plain anodized, predrilled 6000 mm (19'8\frac{3\pi}{3\pi}) cut to size	6000 mm (19'8 ⁷ / ₃₂ ")	10096
* 4		10098	

Planning/installation

For planning and execution please use the installation instructions drawing code 15769 and the installation instructions code 15596 for "sliding doors running in the ceiling".

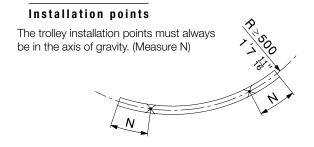
(→ www.hawa.ch → Hawa Productfinder)





Accessories

Caution: Minor differences in colour are possible			code
	Bottom door stop	dull chromium finish	20773
	with centering assembly	stainless steel effect	21473
Further accessories: → pages 42 – 47			



Ordering specifications for curved sliding doors

- Quantity and type of hardware sets
- · Sketch of layout
- Axis radius

Ordering specifications for straight sliding doors

- Quantity and type of hardware sets
- Type and length of running tracks

Hardware system for sliding doors weighing up to 70 kg (154 lbs.).

For curved and straight doors.

Description

The Hawa Media 70 is a highly successful hardware system with top fixing plate. It is especially suitable for curved doors.

Features of the Hawa Media 70

- · Plastic-tyred ball bearing wheels
- Vertical adjustment $\pm 5 \text{ mm} \left(\frac{7}{32}\right)$
- Suitable for use with curved doors
- Minimum radius 500 mm (1'7 ¹¹/₁₆")

Set for sliding doors, without running track

	panel	code
Hawa Media 70	1	11666
For two-panel sliding doors please order two sets for single	doors.	

Set comprising

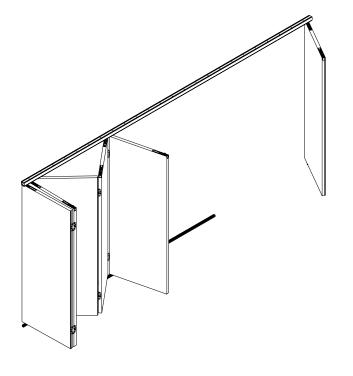
		pieces	code
	Two-wheeled trolley, M8, plastic-tyred ball bearing wheels	2	10370
	Top fixing plate and hanger bolt M8	2	10430
	Track end stop, alu plain anodized	1	10588
J	Screw-on wall bumper	1	10584
	Guide, rattle proof, for screw- mounting to floor, groovewidth 10 mm (32"), black plastic	1	14427

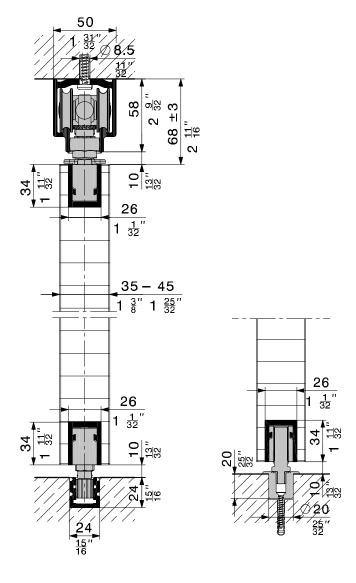
Running tracks for side fitting

Caution: Hole positions vary		mm/inch	code
	Running track, alu plain anodized, predrilled	6000 mm (19'8 ⁷ / ₃₂ ")	10123
	(for use with curved sliding doors) side fixing	cut to size	10126

Running tracks for ceiling fitting

Caution: Hole position:	s vary	mm/inch	code
		2500 mm (8'2 ⁷ / ₁₆ ")	12234
	Running track, alu plain anodized, predrilled (for use with curved sliding doors) ceiling fitting	3500 mm (11'5 13 ")	12235
		6100 mm (19'8 ⁷ / ₃₂ ")	10127
		cut to size	10130
		2500 mm (8'2 ⁷ / ₁₆ ")	12236
	Running track, alu plain anodized, predrilled (for use with straight sliding doors) ceiling fixing	3500 mm (11'5 13 16")	12237
		6000 mm (19'8 ⁷ / ₃₂ ")	10144
		cut to size	10146





Flush partition walls with flexible folding.

Hardware system for large wooden folding walls with panel weighing up to 80 kg (176 lbs.).

Description

Hawa Variofold 80 H is a hardware system for wooden folding walls with up to 80 kg (176lbs.) heavy panels. Installations are simple to plan, and quick to assemble. A pivot bearing secures the first panel in the set; the others line by means of elegant, stainless steel hinges that bring the panels closer together and minimise panel stacking space requirements. The panel set and the opposing end may also have a pivot door fitted. Attached to every other panel is a folding-/pivot door catch with an integrated, individually adjustable retainer, to hold the folding wall flush when closed.

With Hawa Variofold 80 H, panels are quided in a bottom guide channel. Installations with two panels on either side and up to 3,6 m (11'9 $\frac{3}{4}$ ") wide are also possible without a bottom guide channel. A bar bolt lock operated at handle height keeps out unwanted visitors. Alternatively, an unobtrusive deadbolt lock fitted to the bottom edge of the panel provides almost invisible locking.

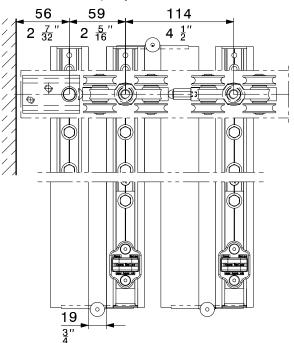
Applications

Any situation where a simply operated, high-quality folding system is needed to partition a room. Equally suitabel for residential and commercial settings, e.g. shopping centres, airports, hotels, restaurants and banks. 2-piece thoroughfare doors in place of conventional hinged doors are most convenient in living space designed for handicapped people.

Features of the Hawa Variofold 80 H

- Minimum panel width 500 mm (1'7¹¹/₁₆

- Maximum panel width 900 mm (2'11 $\frac{7}{1.0}$ ")
 Panel thickness 35–45 mm (1 $\frac{3}{8}$ "-1 $\frac{25}{32}$ ")
 [Panel thickness 46–57 mm (1 $\frac{13}{10}$ "-2 $\frac{1}{4}$ ") available on special request]
- Maximum panel weight 80 kg (176 lbs.)
- Left and right-hand, inwards or outwards-opening installations all use the same components
- A communicating pivot door can be added to the panel stack, or the opposing end
- Equal-width panels for simple planning
- Vertical adjustment $\pm 3 \text{ mm} \left(\frac{1}{8}\right)$
- Light and quiet running
- Panel stack stores compactly





Partial sets without hinges, running track and bottom guide channel

Sets can be individua	lly assembled	code
	Basic set with pivot bearing and guide	
$lackbox{V} lackbox{V} lackbox{V} lackbox{V}$	Basic set with pivot bearing without guide	19534
	Additional set with guide	19533
	Pivot door set to folded stack (without trolley and top pivot bearing)	19620
N A A 1	Pivot door set for installation with bottom guide channel	19618
	Pivot door set for installation without bottom guide channel	19619
Hawa Variofold 80 H re	equires a bottom guide channel,	

except for 2 or 2 + 2 panel installations. (→ installation examples)

Partial sets comprising

		19532	19534	19533	19620	19618	19619	code
	Top pivot bearing	1	1	_	_	1	1	16485
	Folding-/pivot door catch, adjustable	1	1	1	1	1	1	20426
	Four-wheeled trolley, M10, plastic-tyred wheels and suspension plate	1	1	_	-	_	_	16482
GG O	Four-wheeled trolley, M10, plastic-tyred wheels with suspen-sion plate and spacer	_	_	1	_	_	_	16685
	Suspension profile alu, 208 mm ($8\frac{3}{10}$) plain anodized, predrilled	5	4	3	1	3	3	10987
	Thrust bearing for bottom guide channel, including driver	1	_	_	-	1	-	19516
	Thrust bearing sleeve, $D=20 \text{ mm } (\frac{25^n}{50})$, including driver	_	1	-	ı	_	1	19515
	Guide, rattle proof, plastic, for bottom guide channel 24×24 mm $(\frac{15}{16}^{8} \times \frac{15}{16}^{8})$	1	_	1	-	_	ı	19518
	Cover cap for top fixed suspension, plastic anthracit-grey RAL 7016	5	4	3	1	3	3	20907
3	Vertical adjustment key	1	1	-	-	-	-	10789
6/	Suspension assembly locking wrench	1	1	-	-	-	-	14861
	Fork spanner SW 13 mm (32")	1	1	_	_	_	_	19128

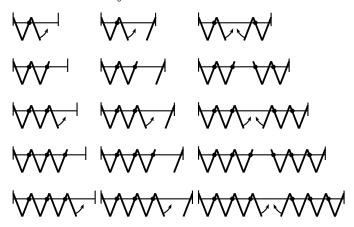
Installation examples

One-sided installations filling an aperture up to 6000 mm (19'8 $\frac{7}{32}$ ") width are possible using the 2-panel basic sets, supplementary and pivot door sets – or double this figure for two-sided installations. Hawa Variofold 80 H requires a bottom guide channel, except for 2 or 2+2 panel installations.

Installations with or without a bottom guide channel



Installations with a bottom guide channel



These examples illustrate just some of the possibilities.



Running tracks

Caution: Hole positions vary		mm/inch	code
	Running track alu,	6000 (19'8 ⁷ / ₃₂ ")	16852
	plain anodized, predrilled	cut to size	16853

Bottom guide channel

	mm/inch	code
Bottom guide channel alu,	6000 (19'8 ⁷ / ₃₂ ")	15405
plain anodized, undrilled	cut to size	15554

Hinge

		code
1111	Stainless steel hinge with heavy load bearings WNR 1.4401/AISI 316, incl. fixing screws	23271

Quantity of hinges per panel joint:

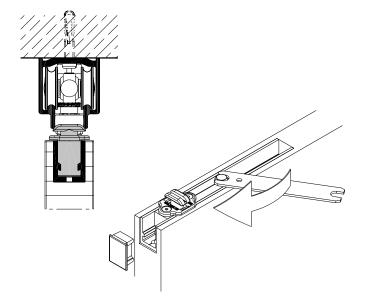
Panel height ≤ 2500 mm (8'2 $\frac{7}{16}$ ") = 2 pcs. Panel height ≤ 3500 mm (11'5 $\frac{13}{16}$ ") = 3 pcs.

Hollow seal

		code
Hollow seal, rubber black	Roll of 10 m (32'9 ²³ / ₃₂ ")	19657

Folding-/pivot door catch

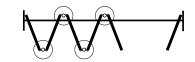
Every other panel has a folding-/pivot door catch (20426). Panels can thus be held flush in position without operating a locking mechanism.

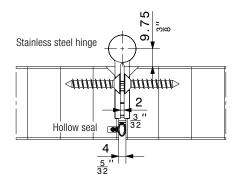


Hinge

High loadbearing capacity means that panels up to 2500 mm (8'2 $\frac{7}{16}$ ") tall require just two hinges.

Hinge positions

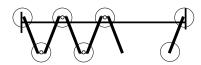




Hollow seal

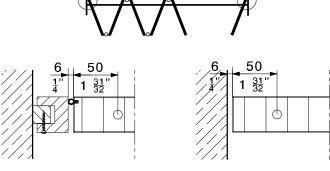
Hollow cross-section seal strips eliminate the problem of light penetrating through gaps between panels.

Hollow seal positions



Wall attachment

Hawa AG recommends a compensation strip for optimum wall attachment. In combination with hollow seal code 19657, this results in the elimination of the light gap and reduces draughts to a minimum. Doors that close directly against the wall must have 6 mm $(\frac{1}{4}")$ clearance.



Version A With premises-fitted compensation strip and hollow seal code 19657

Version B Direct wall attachment requires 6 mm (1/4") clearance

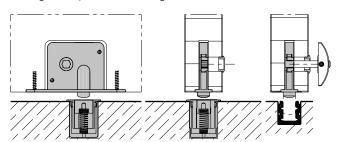


Locks

LOURS		
		code
	Deadbolt lock, galv. steel deadbolt 13 mm $(\frac{17}{52})$	10726
	Bar bolt lock, square/hexagonal socket, backset 42,5 mm (1½°) Assembly dimensions: → page 45	19592
	Thumbturn, chomium finish, for panel thickness 35 to 40 mm (1 $\frac{3}{8}$ " to 1 $\frac{19}{82}$ ")	13789
	Thumbturn, chomium finish, for panel thickness 41 to 57 mm $(1\frac{5}{8}"$ to $2\frac{1}{4}")$	19806
0	Slip-fit rose, brass dull nickel finish	13858
	Key for deadbolt lock 10726	10723
	Floor-mounted sleeve with oblong hole and chromium plated brass spring cover	13787
	Rosette for floor-mounted sleeve 13787	17326
	Strike plate, chromium-plated steel	13130

Deadbolt lock

The deadbolt lock code 10726 provides unobtrusive, barely visible locking at the panel bottom edge.



Locking with floor-mounted sleeve code 13787

Locking with bottom guide channel code 15554

Order specifications

- Type and quantity of partial sets
- Length of running track
- Length of bottom guide channel
- Quantity of hinges, → calculation details

Optional order specifications

- Type and quantity of locks
- · Quantity of hollow seals

Planning/installation

For planning and installation purposes, please use planning and installation instructions code 19586.

And for door thicknesses 46–57 mm additionally code 20085.

(→ www.hawa.ch → Hawa Productfinder)

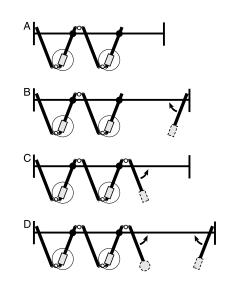
Subject to modification. Metric specifications are exact. Inches are approximate.

Locks

Additional deadbolt or bar bolt locks may be fitted for security, and to keep out unwanted visitors.

Locking from the inside engages the floor-mounted sleeve code 13787 or the bottom guide channel code 15554. Mortice locks can be used to secure pivot doors.

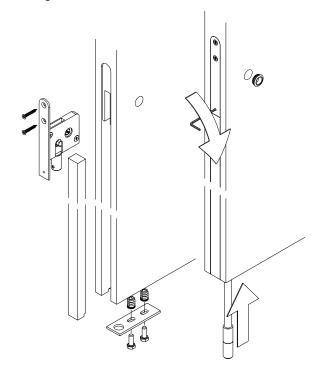
Lock positions



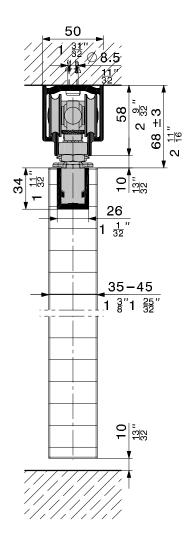
- Deadbolt lock or bar bolt lock
- Door edge bar not supplied by Hawa AG
- Mortice lock not supplied by Hawa AG
- ✓ Pivot door

Bar bolt lock

Bar bolt lock code 19592 allows locking the folding wall at handle height.







Flush folding partition walls without a bottom guide channel.

Hardware system for large wooden centre fold walls with panel weighing up to 80 kg (176 lbs.).

Description

Hawa Centerfold 80 H is a hardware system for wooden centre fold walls with up to 80 kg (176 lbs.) heavy panels. Installations are simple to plan, and quick to assemble. A pivot bearing secures the first panel in the set; the others line up with the help of elegant, stainless steel hinges that bring the panels closer together and minimise the panel stacking space required, the panel set and the opposing end may also have a pivot door fitted. Attached to every other panel is a folding-/ pivot door catch with an integrated, individually adjustable retainer, to hold the centre fold wall flush when closed.

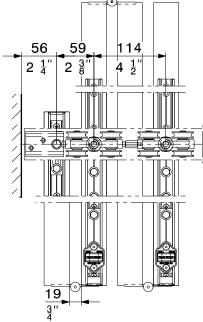
Mid-point panel suspension means that Hawa Centerfold 80 H installations do not require a bottom guide channel. A bar bolt lock operated at handle height keeps out unwanted visitors. Alternatively, an unobtrusive deadbolt fitted to the bottom edge of the panel provides almost invisible locking. Both locks engage with floor inserts, or a locking plate.

Applications

Any situation where a simply operated, high-quality folding system is needed to partition a room. Equally suitable for residential and commercial settings, e.g. shopping centres, airports, hotels, restaurants and banks. $1\frac{1}{2}$ -piece thoroughfare doors in place of conventional hinged doors are most convenient in living space designed for handicapped people.

Features of the Hawa Centerfold 80 H

- Minimum panel width 500 mm (1'7¹¹/₁₆")
- Maximum panel width 900 mm (2'11 \(\frac{7}{16} \)")
- Panel thickness 35-45 mm $(1\frac{3}{8}^{"}-1\frac{25}{32}^{"})$ [Panel thickness 46–57 mm $(1\frac{13}{16}^{\circ}-2\frac{1}{4}^{\circ})$ available on special request]
- Maximum panel weight 80 kg (176 lbs.)
- No bottom guide channel
- Left and right-hand, inwards or outwards-opening installations all use the same components
- A communicating pivot door can be added to the panel stack, or the opposing end
- Vertical adjustment $\pm 3 \text{ mm} \left(\frac{1}{8}\right)$
- · Light and quiet running
- · Panel stack stores compactly



Subject to modification. Metric specifications are exact. Inches are approximate.

www.hawa.ch

Partial sets without hinges and running track

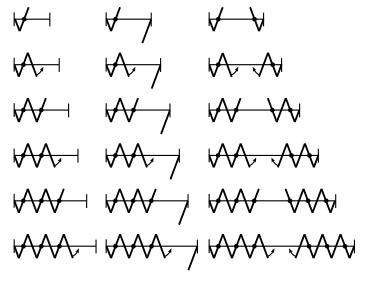
Sets can be individual	y assembled	code			
lack lac	Basic set with pivot bearing without guide	19535			
\overline{W}	Additional set without guide	19536			
	Pivot door set to folded stack (without trolley and top pivot bearing)	19620			
	Pivot door set for installation without bottom guide channel	19619			
Hawa Centerfold installations do not need bottom guide channels.					

Partial sets comprising

			_			
		19535	19536	19620	19619	code
0	Top pivot bearing	1	_	_	1	16485
	Folding-/pivot door catch, adjustable	1	1	1	1	20426
	Four-wheeled trolley, M10, plastic-tyred wheels and suspension plate	1	_	_	ı	16482
	Four-wheeled trolley, M10, plastic-tyred wheels with suspen-sion plate and spacer	_	1	_	_	16685
	Suspension profile alu, 208 mm (8 ਹੈ") plain anodized, predrilled	2	_	1	3	10987
	Suspension profile alu, 550 mm (1'9 ﷺ), plain anodized, predrilled	1	1	_	_	19524
	Thrust bearing sleeve, D = 20 mm $(\frac{25}{50})$, including driver	1	_	_	1	19515
	Cover cap for top fixed suspension, plastic anthracit-grey RAL 7016	3	1	1	3	20907
³	Vertical adjustment key	1	-	-	-	10789
6/	Suspension assembly locking wrench	1	-	_	_	14861
	Fork spanner SW 13 mm ($\frac{17}{32}$)	1	_	_	_	19128

Installation examples

One-sided installations filling an aperture up to 6000 mm (19'8 $\frac{7}{32}$ ") width are possible using the $1\frac{1}{2}$ -panel basic sets, supplementary and pivot door sets - or double this figure for two-sided installations. Hawa Centerfold 80 H installations are executed without bottom guide channels.



These examples illustrate just some of the possibilities.

Hawa Centerfold 80 H

Running tracks

Caution: Hole positions	s vary	mm/inch	code
	Running track alu,	6000 (19'8 ⁷ / ₃₂ ")	16852
	plain anodized, predrilled	cut to size	16853

Hinge

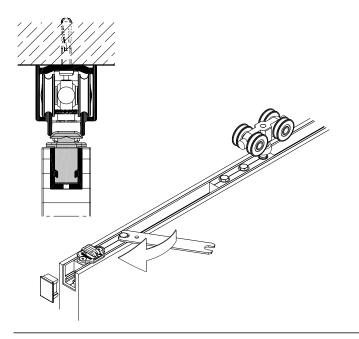
		code
	Stainless steel hinge with heavy load bearings WNR 1.4401/AISI 316, incl. fixing screws	23271
Quantity of hinges por Panel height ≤ 2500 r Panel height ≤ 3500 r	nm $(8'2\frac{7}{16}") = 2$ pcs.	

Hollow seal

			code
	Hollow seal, rubber black	roll of 10 m (32'9 ²³ / ₃₂ ")	19657

Folding-/pivot door catch

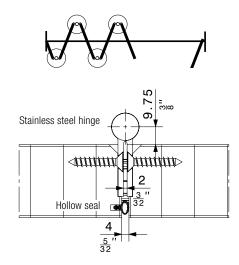
Every other panel has a Folding-/pivot door catch (20426). Panels can thus be held flush in position without operating a locking mechanism.



Hinge

High loadbearing capacity means that panels up to 2500 mm (8'2 $\frac{7}{16}$ ") tall require just two hinges.

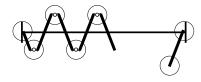
Hinge positions



Hollow seal

Hollow cross-section seal strips eliminate the problem of light penetrating through gaps between panels.

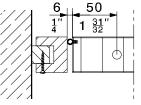
Hollow seal positions



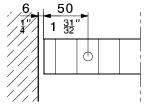
Wall attachment

Hawa AG recommends a compensation strip for optimum wall attachment. In combination with hollow seal code 19657, this results in the elimination of the light gap and reduces draughts to a minimum. Doors that close directly against the wall must have 6 mm $(\frac{1}{4})$ clearance.





With premises-fitted compensation strip and hollow seal code 19657



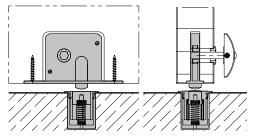
Direct wall attachment requires 6 mm (1/4") clearance

Locks

LUCKS		
		code
	Deadbolt lock, galv. steel deadbolt 13 mm $(\frac{17}{52})$	10726
	Bar bolt lock, square/hexagonal socket, backset 42.5 mm (1½°) Assembly dimensions: → page 45	19592
	Thumbturn, chomium finish, for panel thickness 35 to 40 mm (1 $\frac{3}{8}$ " to 1 $\frac{19}{32}$ ")	13789
	Thumbturn, chomium finish, for panel thickness 41 to 57 mm $(1\frac{5}{8}"$ to $2\frac{1}{4}")$	19806
0	Slip-fit rose, brass dull nickel finish	13858
	Key for deadbolt lock 10726	10723
	Floor-mounted sleeve with oblong hole and chromium plated brass spring cover	13787
	Rosette for floor-mounted sleeve 13787	17326
	Strike plate, chromium-plated steel	13130

Deadbolt lock

The deadbolt lock code 10726 provides unobtrusive, barely visible locking at the panel bottom edge.



Locking with floor-mounted sleeve code 13787

Order specifications

- Type and quantity of partial sets
- Length of running track
- Quantity of hinges, → calculation details

Optional order specifications

- Type and quantity of locks
- · Quantity of hollow seals

Planning/installation

For planning and installation purposes, please use planning and installation instructions code 19587. And for door thicknesses 46–57 mm additionally code 20086. (\rightarrow www.hawa.ch \rightarrow Hawa Productfinder)

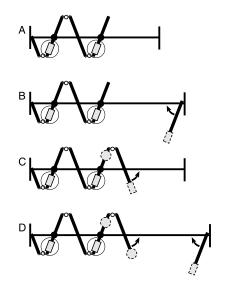
Subject to modification. Metric specifications are exact. Inches are approximate.

Locks

Additional deadbolt or bar bolt locks may be fitted for safety and to keep out unwanted visitors.

Locking from the inside engages the floor-mounted sleeve code 13787. Mortice locks can be used to secure pivot doors.

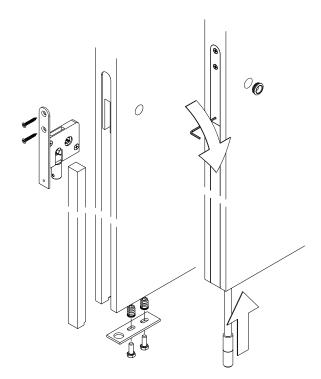
Lock positions

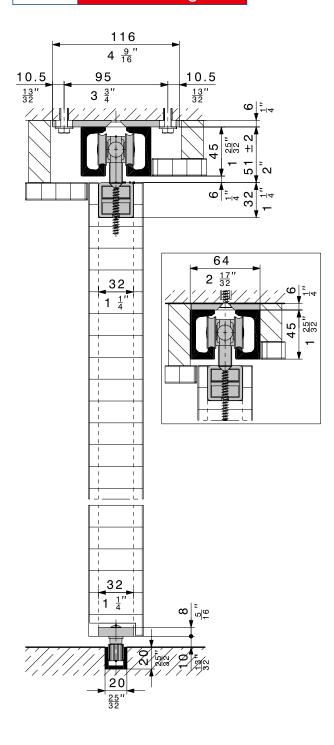


- Deadbolt lock or bar bolt lock
- O Door edge bar not supplied by Hawa AG
- Mortice lock not supplied by Hawa AG
- ✓ Pivot door

Bar bolt lock

Bar bolt lock code 19592 allows locking the folding wall at handle height.





Hardware system for room division applications for panel weights up to 120 kg (264 lbs.).

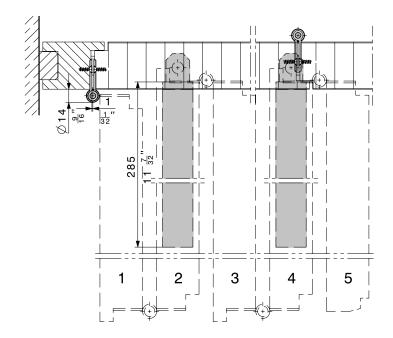
Description

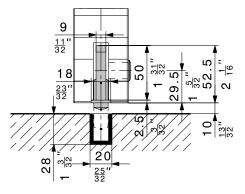
In the event of an odd number of panels, the last panel can be designed as a communicating door. A stop can be provided on top if desired. When open, the panels are at an angle of 90° to the closed partition. The panel stacks may be arranged on the right- and/or left-hand side. Within a panel stack, the panels are hinged together. Starting from the first panel (which is hinged to the frame), every second panel is suspended at its side edge. This calls for a floor guide. To fix non-guided panels, a bar bolt lock is placed at the end of panels 1, 3, 5, etc. When the partition is closed, the panels are secured into the bottom guide channel.

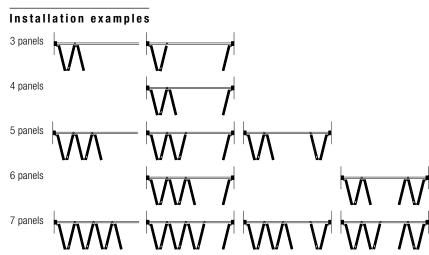
The first panels should be made slightly narrower in precise ratio to the other panels. The width of the first panel hinged at the rear (1) is not identical to that of the following panels.

Features of the Hawa 20 C Folding wall 120

- Hardware system for room division applications
- Max panel weight: 120 kg (264 lbs.)
- Max panel width: 1000 mm (3'3 $\frac{3}{8}$ ")
- Special trolley as supplementary component for fire doors
- Adjustable vertically ± 2 mm (³/₃₂")







Sets without running track and bottom guide channel

		code
M	Set for 3 panels	12804
\overline{W}	Set for 4 panels	12805
\overline{MM}	Set for 5 panels	12806
\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	Set for 6 panels	12807
\\\\\	Set for 7 panels	12808

Bottom guide channels

Caution: Hole positions vary		mm/inch	code
	Bottom guide channel, alu plain anodized, predrilled,	6000 (19'8 ⁷ / ₃₂ ")	14414
	20 x 20 x 3 mm (32 x 35 x 18)	cut to size	14415
	Bottom guide channel, brass, predrilled, 20 x 28 x 3 mm (ﷺ x 1 1 5 8 x 1 5 8 8 1 1 5 8 1 1 5 8 1 1 5 8 1 1 5 8 1 1 1 1	6000 (19'8 ⁷ / ₃₂ ")	10245
		cut to size	10247

Set comprising

oct ouriprising							
		12804	12805	12806	12807	12808	code
650	Four-wheeled trolley, M12, steel ball bearing wheels	1	1	2	2	3	10362
	Top and edge fixed bracket, with suspension plate and hanger bolt M12	1	1	2	2	3	10453
	Edge fixed bottom guide with rattle proof guide piece, 14 mm $(\frac{9}{16}")$	1	1	2	2	3	12945
	Ball bearing hinge, steel dull nickel finish, with fixing screws	9	12	15	18	21	10652
9 9	Deadbolt lock, 13 mm (⅓²") galvanized steel	1	1	2	2	3	10726
0	Slip-fit rose, brass dull nickel finish	1	1	2	2	3	13858
	Key for deadbolt lock	1	1	1	1	1	10723

Hawa Bar bolt lock

		code
	Bar bolt lock Backset 42,5 mm (1½") Socket square/hexagonal, 7/8 mm Total lift of push rod: 18 mm (½") Operation height: 960 mm (3'11½") complete The bar bolt lock can be operated from the door surface with a square/hexagonal key.	19592
0	Thumbturn, chomium finish, for panel thickness 35 to 40 mm (1 $\frac{3}{8}$ " to 1 $\frac{19}{32}$ ")	13789
	Thumbturn, chomium finish, for panel thickness 41 to 57 mm (1 $\frac{5}{8}$ " to 2 $\frac{1}{4}$ ")	19806
	Key for deadbolt lock	10723
0	Slip-fit rose, brass dull nickel finish	13858
	Floor-mounted sleeve with oblong hole and chromium plated brass spring cover	13787
	Rosette for floor-mounted sleeve 13787	17326
	Strike plate, chromium-plated steel	13130

Dual running tracks

Caution: Hole position:	s vary	mm/inch	code
	Dual running track, stainless steel, WNR 1.4301/AISI 304,	6000 (19'8 ⁷ / ₃₂ ")	18039
	with top mounting flanges	cut to size	18040
	Dual running track, stainless	6000 (19'8 ⁷ / ₃₂ ")	18496
	steel, WNR 1.4301/AISI 304, with flush mounting flanges	cut to size	18497

Quantity of hinges required

panel height	pieces
up to 2500 mm (8' $2\frac{7}{16}$ ")	3
2501-3200 mm (8'2 ¹⁵ / ₃₂ "-10'6")	4
$3201-4000 \text{ mm } (10'6\frac{1}{32}"-13'1\frac{1}{2}")$	5

Accessories

	code
Ball bearing hinge, burnished steel, with fixing screws	10666
Track stop, galvanized steel, to be drilled into the track	16768

Order specifications

We require the following details in order to prepare a quote and version for you:

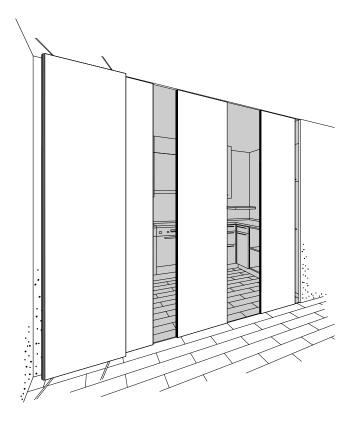
- · Sketch of the situation
- Clearance dimensions
- Quantity of panels
- Width and height of panels
- Weight of one panel
- · Panel thickness
- Quantity of supplementary hinges

Component for fire-retarding doors

		code
650	Four-wheeled trolley M12, steel, with steel ball bearing wheels	15558

Planning/installation

For planning and execution please use the installation drawing code 12398. (→ www.hawa.ch → Hawa Productfinder)





Hardware system for stackable wooden partitions up to 60 kg (132 lbs.)

Description

The first system on the market purpose-designed for lightweight wooden partition walls up to 60 kg (132 lbs.) per panel combines high quality with an economical price. It offers a particularly attractive architectural solution because the closed partition is perfectly flush, and requires only a small stacking area when opened. With the comprehensive assembly instructions, craftsmen can plan and fit simple installations by themselves. Furthermore, Hawa Aperto 60 H is a standardised system with a very simple component structure, which ensures rapid delivery of all parts from stock.

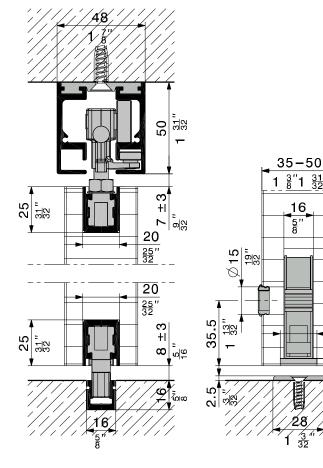
Maximum ease of operation is attained using a bottom guide channel. Installations without a bottom guide channel are also possible at lower panel weights and careful operating.

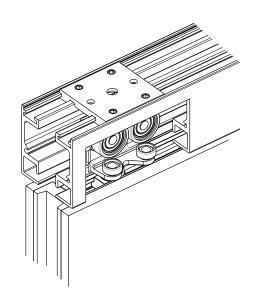
Applications

Wherever rooms require individual design or repurposing. Thank to minimal fitting dimensions, modest stacking area space requirements and its attractive price, Hawa Aperto 60 H opens completely new possibilities. It can be used for room dividers and screens in a wide range of scenarios. Partitions that reach from a counter-top to the ceiling, for example, are also easier and less costly to build.

Features of the Hawa Aperto 60 H

- Maximum panel weight 60 kg (132 lbs.)
- Panel thickness 35-50 mm $(1\frac{3}{8}"-1\frac{31}{32}")$
- Minimum panel width for standard installations 550 mm (1'921")
- Maximum panel width for standard installations:
- stacking 90° to the slide axis, 950 mm (3'1 $\frac{13}{32}$ ")
- stacking parallel to the slide axis, 1500 mm $(4'11\frac{1}{16}")$
- Maximum panel height 2600 mm (8'6³/₈")
- Adjustable vertically ± 3 mm (¹/₈")
- Centre stop with progressively adjustable retention spring catch
- Comprehensive planning and assembly instructions
- Stacking area accommodates up to 9 door panels
- Stacking at 90° and parallel to the sliding axis
- A single lock secures the entire installation
- Installations without a floor track are possible for lower panel weights
- Running tracks and bottom guide channels: alu plain anodized





Subject to modification. Metric specifications are exact. Inches are approximate.

9

20

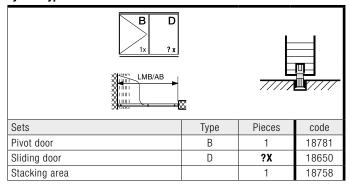
25 32



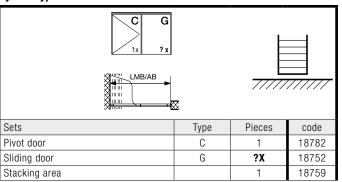
Stacking area options

With Hawa Aperto 60 H, lightweight wooden partitions tuck away invisibly behind a wall or pivot door. Door panels can stack both at 90° and parallel to the sliding axis.

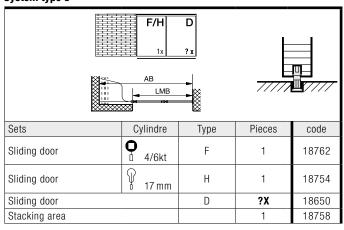
System type 1



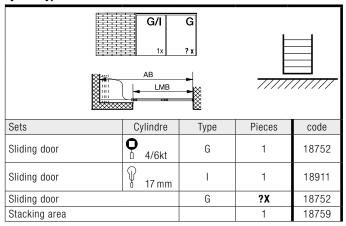
System type 2



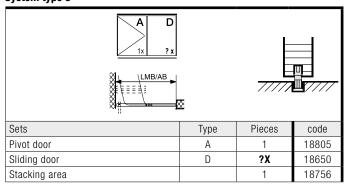
System type 3



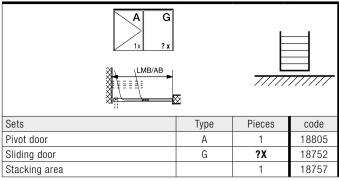
System type 4



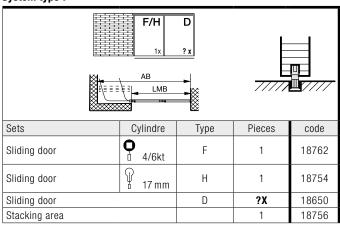
System type 5



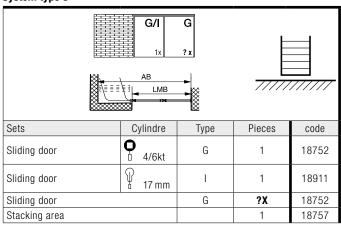
System type 6



System type 7



System type 8



Nominal order length for straight running tracks and bottom guide channels

The basic nominal order length for straight running tracks and bottom guide channels and the number of necessary top fixing plates can be calculated as follows:

Stacking area parallel

		formula	order length in mm (incl. trimming reserve)	pieces per installation
2 x single	outside	AB in mm - 730 mm		1
toptrack	inside	AB in mm - 1230 mm		1
Bottom guid channel	le	AB in mm - 500 mm		1
Top fixing p	late	AB in mm ÷ 500		

Stacking area 90°

		formula	order length in mm (incl. trimming reserve)	pieces per installation
2 x single	outside	AB in mm -130 mm		1
toptrack	inside	AB in mm - 500 mm		1
Bottom guic channel	le	AB in mm + 20 mm		1
Top fixing p	late	AB in mm ÷ 500		

Running tracks

		mm/inch	code
		2500 (8'2 ⁷ / ₁₆ ")	17795
	Single running track,	3500 (11'5 13")	17796
	alu plain anodized	6000 (19'8 ⁷ / ₃₂ ")	16891
		cut to size	17529
	Top fixing plate for 2 x single running track,	1 piece	17128
		6 pieces	17806
7	alu, set of	8 pieces	17807
	Cover cap for 2 x single ru alu plain anodized	unning track,	19354

Bottom guide channels

Caution: Hole position:	s vary	mm/inch	code
	Bottom guide channel, alu plain anodized, undrilled, 16 x 16 mm (\frac{5}{8}" x \frac{5}{8}") Bottom guide channel, alu plain anodized	6000 (19'8 ⁷ / ₃₂ ")	18200
		3500 (11'5 13")	18864
		6000 (19'8 ⁷ / ₃₂ ")	18216
	$16x16x3 \text{ mm } (\frac{5}{8}"x\frac{5}{8}"x\frac{1}{8}")$	cut to size	18477

Custom installations

Please contact Hawa for custom installations with special stacking areas, more than 9 panels, curved running tracks or an integral change of track direction.

Order specifications

- Quantity and type of pivot door sets → table
- Quantity and type of sliding door sets → table
- Quantity and type of stacking area sets \rightarrow table
- Quantity and length of running tracks → calculation
- Quantity and length of bottom guide channel → calculation
- Quantity of top fixing plate → calculation

Optional order specifications

- Quantity and type of concealed interior for stacking area
- Quantity and length of seal profiles
- Quantity and length of rubber profiles
- · Quantity, length and type of Hawa protective edge trims

Planning/installation

For planning and installation purposes, please use the installation drawing code 18337 (parallel) or 18338 (90°). (→ www.hawa.ch → Hawa Productfinder)



Pivot door sets

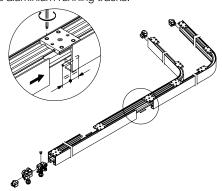
	type	code
Pivot door set for system with parallel stacking area, with/without bottom guide channel	А	18805
Pivot door set for system with stacking area at right angle, with bottom guide channel	В	18781
Pivot door set for system with stacking area at right angle, without bottom guide channel	С	18782

Set comprising

		8805	8781	8782	
	Door types	A	В	C	code
	Suspension profile, 250 mm (9 $\frac{327}{32}$), alu plain anodized, 20 x 25 mm ($\frac{257}{32}$ x $\frac{317}{32}$)	2	2	2	18252
	Cover cap for suspension profile, plastic anthracite-grey RAL 7016	2	2	2	21520
	Top pivot bearing for installations with stacking 90°	_	1	1	19142
	Top pivot bearing for installations with stacking parallel	1	_	_	18779
	Bottom pivot, fitting with 16 x16 mm $(\frac{5}{3}$ x $\frac{5}{3}$ ") bottom guide channel	_	1	_	18730
	Bottom pivot with thrust bearing sleeve D = 20 mm (ﷺ)	1	_	1	18785
	Matching segment 300 mm (11 13"), outside, for running track, concealed interior, stacking parallel	1	_		18804
	Matching segment 300 mm (11 13"), inside, for running track, concealed interior, stacking parallel	1	_	_	19144
(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Top fixing plate for 2 x single running track, alu	1	-	_	17128
	Fork spanner SW 13 mm (ﷺ)	1	1	1	19128

Easy action

Excellent ease of sliding thanks to precision guides and extremely quiet and gentle running thanks to a mix of plastic rollers and anodized aluminium running tracks.



Sliding door sets

	type	code
Sliding door set for system without lock, with bottom guide channel	D	18650
Sliding door set for system without lock, without bottom guide channel	Е	18808
Sliding door set for system with bottom guide channel, incl. square/hexagon bar bolt lock, with guide pin	F	18762
Sliding door set for system without guide channel, incl. square/hexagon bar bolt lock	G	18752
Sliding door set for system with bottom guide channel, incl. bar bolt lock profile cylinder, with guide pin	Н	18754
Sliding door set for system without bottom guide channel, incl. bar bolt lock profile cylindre	I	18911

Set comprising

			_	<u> </u>	<u> </u>	_		
		18650	18808	18762	18752	18754	18911	
	Door types	D	Ε	F	G	Н	I	code
	Suspension plate, incl. M8 hanger bolt, with integrated assembly wedge	2	2	2	2	2	2	18651
	Suspension profile, 250 mm (9 $\frac{32}{52}$), alu plain anodized, 20 x 25 mm ($\frac{32}{52}$ " x $\frac{33}{52}$ ")	3	2	2	2	2	2	18252
	Two-wheeled trolley, M8, plastic-tyred ball bearings	2	2	2	2	2	2	18708
	Cover cap for suspension profile, platic anthracite- grey RAL 7016	3	2	2	2	2	2	21520
	Floor guide rattle proof, plastic, 10 mm (132"), with suspension plate	1	- 1	_	-	_		18649
	Bar bolt lock 9 mm ($\frac{3}{8}$ "), with square/hexagon socket and slip-fit rose	_	ı	ı	1	ı	-	18837
	Bar bolt lock 9 mm $(\frac{3}{8}")$, profile cylinder	_	ı	ı	ı	ı	1	18836
	Bar bolt lock 9 mm $(\frac{3}{8}")$, profile cylinder, with guide pin	_	-	-	-	1	-	18750
0.0	Bar bolt lock 9 mm ($\frac{3}{8}$ "), square/hexagon socket, with guide pin	_	_	1	_	_	_	18833
	Strike plate for 9 mm $(\frac{3}{8}")$ deadbolt, chromium-plated steel	_	_	_	1	_	1	18755
	Key for bar bolt lock 18833 and 18837	_	_	1	1	_	_	10723

29



Stacking area sets

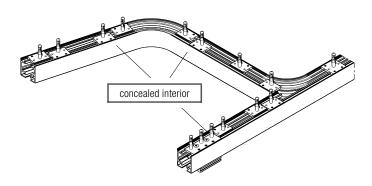
	code
, ,	18756
Stacking area set, without bottom guide channel, stacking parallel	18757
Stacking area set, with bottom guide channel, stacking at right angle	18758
Stacking area set, without bottom guide channel, stacking at right angle	

Set comprising

		18756	18757	18758	18759	code
	Single running track curved segment, 75° inside, length of leg 580 mm (1'10 %)	1	1	ı	ı	17289
	Single running track curved segment, 75° outside, length of leg 580 mm (1'10 27")	1	1	1	1	17290
	Single running track curved segment, 90° inside, length of leg 70 mm (2 $\frac{3}{4}$ ")	_	-	1	1	16925
993	Running track end stops, set	1	1	1	1	19165
	Connecting bolts, set of 6 pieces	1	1	1	1	17221
ORGE	Centre stop with progressively adjustable retention spring catch	1	1	1	1	17283
	Top fixing plate for 2 x single running track, alu	1	1	1	1	17128
	Top fixing plate for single running track, alu	11	11	10	10	17749
	End stopper for alu bottom guide channel, 16×16 mm $(\frac{5}{8}" \times \frac{5}{8}")$	2	-	2	-	18652
	End-piece for running track, 150 mm (5 📆)	1	1	1	1	19160
	Bottom guide channel connecting bolts, set of 8 pieces	1	-	_	_	18640
	Curved bottom guide channel 75°, length of leg 500 mm (1'7 11")	1	-	_	_	18748
	Hex key 4 mm ($\frac{5}{32}$ "), length 230 mm (9 $\frac{1}{16}$ ")	1	1	1	1	18751
	Adjustment tool for eccentric glass retainer	1	1	1	1	19256

Stacking area with concealed interior

We recommend fitting an interior concealment cover for open, visible stacking areas.



Profile set for concealed interior

	code
Profile set for concealed interior for installations with stacking parallel to the slide axis, complete	19147
Profile set for concealed interior for installations with stacking 90° to the slide axis, complete	19148

Sets comprising

	19147	19148	code
Single running track curved segment, 75° inside, length of leg 580 mm (1'10 27")	1	1	17289
Single running track 550 mm (1'9⅔"), for concealed interior, stacking parallel	1	_	19145
Single running track 700 mm (2'3 $\frac{6}{16}$ "), for concealed interior, stacking parallel and 90°	1	1	19146
Top fixing plate for single running track, alu	8	7	17749

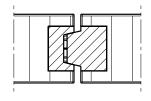


Seal profile/rubber profile

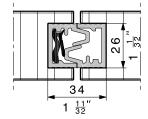
Deployment between the sliding doors			code
	Seal profile, alu plain	6000 mm (19'8 ⁷ / ₃₂ ")	14223
	anodized, predrilled	cut to size	13528
			15340
	Rubber profile, black	cut to size	13571

Panel centring

Door panels must be centred to ensure flush fitting.



Version A With customer-supplied wooden strips



Version B With Hawa seal profile, plain anodised aluminium (13528) including black rubber profile (13571)

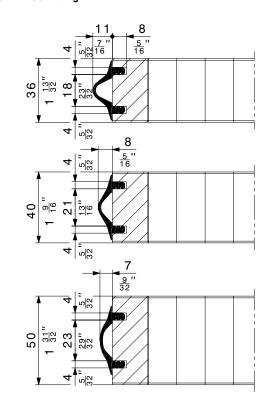
Hawa protective edge trims, rubber

		roll of	code
63.0	Hawa protective edge trim, black,	5 m (16'4 ²⁷ ")	10626
	similar RAL 7021	10 m (32'9 ²³ ")	12325
	Hawa protective edge trim, brown, similar RAL 8024	5 m (16'4 ²⁷ ")	10627
		10 m (32'9")	12326
	Hawa protective edge trim, cream-white,	5 m (16'4 ²⁷ ")	10649
	similar RAL 9001	10 m (32'9")	12327
	Hawa protective	5 m (16'4 ²⁷ ")	15620
	edge trim, beige, similar RAL 1001	10 m (32'9")	15621

Running tracks

			code
		2500 mm (8'2 ⁷ / ₁₆ ")	17795
	Single running track, alu plain anodized	3500 mm (11'5 18")	17796
		6000 mm (19'8 ⁷ / ₃₂ ")	16891
		cut to size	17529
	Top fixing plate for	1 piece	17128
	2 x single running track, alu, set of	6 pieces	17806
		8 pieces	17807

Wall mounting

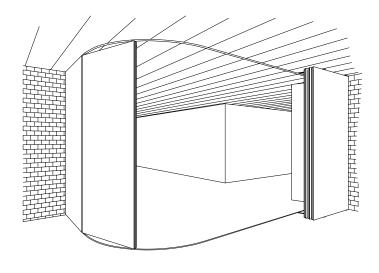


Bottom guide channels

Caution: Hole positions vary		mm/inch	code
	Bottom guide channel, alu plain anodized, undrilled, 16 x 16 mm (⁵ / ₈ " x ⁵ / ₈ ")	6000 (19'8 ⁷ , ∑")	18200
	Bottom guide channel,	3500 (11'5 13")	18864
	alu plain anodized, predrilled,	6000 (19'8 ⁷ / ₃₂ ")	18216
	16x16x3 mm $(\frac{5}{8}$ "x $\frac{5}{8}$ "x $\frac{1}{8}$ ")	cut to size	18477

Accessories

	code
Sleeve closure including fitting screw	19149
Thumbturn, chromium finish, for panel thickness 35 to 40 mm ($1\frac{3}{8}$ " to $1\frac{19}{32}$ ")	13789
Thumbturn, chromium finish, for panel thickness 41 to 57 mm ($1\frac{5}{3}$ " to $2\frac{1}{4}$ ")	19806
Key for bar bolt lock	10723



Hardware system of modular design for stackable wooden partitions up to 100 and 150 kg (220 and 330 lbs.) per panel.

Description

Thanks to the modular track system and its unrivalled cornering technique, Hawa Variotec 150 H enables the quick realization of all design concepts for room partitions. This hardware system allows straight running tracks/bottom guide channels and curved segments of 15, 30, 45, 60, 75 and 90 degrees to be combined to form customized configurations. Different trolleys are required depending on the door weight (100 or 150 kg / 220 or 330 lbs.).

Test certificates of the Landesgewerbeanstalt Bayern (LGA) in Nuremberg confirm the hardware system's high functionality and resistance to wear.

In principle, a version without bottom guide channels is possible. However, we recommend using them since this makes opening and closing the partitions more convenient.

Applications

This hardware system is suitable for use wherever high quality and quiet operation are called for, e.g. in hotels, restaurants, banks, openplan offices and exclusive interior designs.

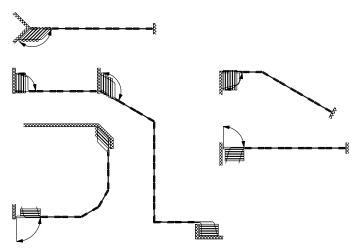
Features of the Hawa Variotec 150 H

- Modular system
- Trolley with two-point guide
- Progressively adjustable height +6/-3 mm ($+\frac{15}{64}$ "/ $\frac{1}{8}$ ")
- Extremely light and smooth cornering
- Minimum axis radius 4000 mm (13'1¹/₂")
- Maximum sliding door weight 150 kg (330 lbs.)
- Secure locking
- Small space requirement in stacking area

21 32 က 03 63 $2\frac{15}{32}$ 26

Layout examples

The layout examples shown below demonstrate the many varied and creative application possibilities of the Hawa Variotec 150 H hardware system.





Running tracks

Caution: Hole positions vary			
	Single running track,	6000 mm (19'8 💯")	15358
	alu plain anodized	cut to size	15360
	Dual running track, alu plain anodized,	6000 mm (19'8 ⁷ / ₃₂ ")	15361
	predrilled	cut to size	15362
	Servicing unit, dismountable	100 mm (3 15 16)	15380
		15°	15377
		30°	15375
	Inner curve running track,	45°	15373
	segment alu plain anodized	60°	15371
	'	75°	15369
		90°	15367
	Inner running track special curved segment, Rm 127, alu plain anodized	angle according to indication	19801
		15°	15376
	Outer curve running track, segment, alu plain anodized	30°	15374
		45°	15372
		60°	15370
		75°	15368
		90°	15366
	Outer running track special curved segment, Rm 127, alu plain anodized	angle according to indication	19800
		15°	15718
		30°	15719
	Running track dual curved segment, for change in	45°	15720
	direction, alu plain anodized	60°	15721
		75°	15722
		90°	15723
	Running track special dual curved segment Rm 127, alu plain anodized	angle according to indication	18667
	Running track curved segment,	45°	17551
	parking area branch,	60°	15845
	parking area left, alu plain anodized	75°	15843
	pia a./ouizou	90°	15841
	Running track curved segment,	45°	17552
	parking area branch,	60°	15846
	parking area right, alu plain anodized	75°	15844
	, and praint anounzou	90°	15842

Running tracks - accessories

Coution: Holo position		oodo
Caution: Hole position	5 vaiy	code
	Cover plate for dual running track, complete	15439
(a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	Top-fixing plate for single running track	15414
	Top-fixing plate for 2 x single running track	15383
(2) (2) (2) (3) (3) (3) (3) (3) (3) (3) (3) (3) (3	Coupler to running track, galvanized steel	17232
	Matching segment dual running track, 45° – 90°, left	16173
	Matching segment dual running track, 45° – 90°, right	16174
	Running track stop for single track	13779
	Running track stop for dual track	13780
	Connecting bracket for ceiling structure, without fixing parts	17045
	Assembly parts for connecting bracket for ceiling structure	19321

Bottom guide channels and accessories

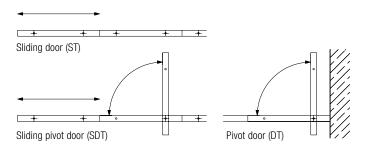
Caution: Hole positions vary			code
	Bottom guide channel,	6000 mm (19'8 ⁷ / ₃₂ ")	13688
	alu plain anodized, predrilled	cut to size	13690
		15°	13644
		30°	13647
	Curved bottom guide channel,	45°	13650
	alu plain anodized, predrilled	60°	13653
		75°	13656
		90°	13659
	Bottom guide channel special dual curved segment, Rm 127, alu plain anodized	angle according to indication	19645
	Matching segment for bottom guide channel, 45 – 90°, left		16778
	Matching segment for bottom guide channel, 45 – 90°, right		16779
	Connecting bolt, Ø 6 x 40 mm (±" x 1½"), stainless steel		13759

Sliding pivot door – components

Siluling pivot door –	Componente		code
	Two-wheeled trolley, M14, with plastic-tyred wheels and suspension plate (sliding pivot doors up to 90 kg [198 lbs.] and 3000 mm [9'10 ½"] height)		13821
	Holding device, sliding swing door/sliding pivot door, for running tracks with integrated cover		15398
	Stop plate complete for sliding swing door/sliding p	ivot door	15429
\$ \$	Contact plate for sliding piv	ot door	14265
	Suspension profile, cut to s alu unanodized, predrilled	ize,	14232
	Suspension profile, cut to s alu unanodized, predrilled, door, with cutout for strike	for sliding pivot	14260
	Suspension profile, cut to s alu unanodized, undrilled, f door, with cutout for strike	or sliding pivot	14261
	Suspension profile, cut to size, alu unanodized, predrilled, for sliding pivot door, with cutout for lock		14233
	Suspension profile, cut to size, alu unanodized, predrilled, for sliding pivot door, with cutout for deadbolt lock		14234
	Suspension profile cover ca	p, plastic black	14211
	Lock complete,	left	14213
	for sliding pivot door	right	14214
	Pivot bearing, for sliding pivot door		14197
	Door stop, for sliding pivot door		14207
1 OF	Centering assembly for slid	ing pivot door	14264
	Deadbolt lock 13 mm $(\frac{17}{32})$, galvanized steel, for sliding	pivot door	14087
	Stike plate/pivot bearing, chromium-plated steel		14088
	Key for deadbolt lock, 10721, 10726, 13144		
0	Slip-fit rose, brass dull nick	Slip-fit rose, brass dull nickel finish	
Å	Short connecting rod for do up to $\leq 2500 \text{ mm } (8'2^{\frac{7}{16}"})$	or height	14164
	Long connecting rod for dod up to ≥ 2500 mm (8' $2\frac{7}{16}$ ")	or height	14165
			-

Door types

Different door types can be combined to accommodate customized design preferences and creative solutions.



Pivot door - components

	code
Servicing unit, dismountable, 100 mm (3 15)	15380
Pivot bearing for swing door and pivot door (without running track)	16196
Driver, vertically adjustable, for pivot door	16325
Thrust bearing adjustable, lnox, for fitting into bottom guide channel	22299
Thrust bearing sleeve, Ø 30 mm $(1\frac{3}{16}")$, for pivot door	16326

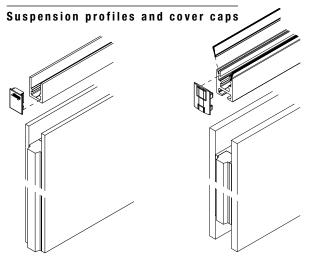
Sliding door - components

	code
Single-wheeled trolley, M14, with plastic-tired ball bearing wheels and suspension plate (for maximum sliding door weights 100 kg (220 lbs.)	13778
Two-wheeled trolley, M14, with plastic-tired ball bearing wheels and suspension plate (for maximum sliding door weights 150 kg (330 lbs.)	13818
Guide plastic, 14 mm (3")	13781
Floor locking lever	19820
Floor locking lever 0–18°	19822



Suspension profiles and cover caps

Caution: Hole positions vary			code
	Multi-purpose suspension and retainer profile, alu plain anodized, predrilled	cut to size	10347
	Top fixed suspension	350 mm (1'1 ²⁵ ")	11004
	Cover cap for top fixed suspension, plastic anthracit-grey RAL 7016, for profile 10347/11004		20907
	Multi-purpose suspension and retainer profile, alu plain anodized, predrilled	cut to size	14232
	Suspension profile cover cap, plastic black, for profile 14232		14211



Suspension profile: 10347/11004 Cover cap: 20907

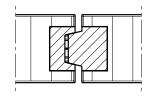
Suspension profile: 14232 Cover cap: 14211 Brush seal: 16797/13791

Seal profile/rubber profile

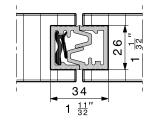
Deployment between the sliding doors		code	
	Seal profile, alu plain anodized, predrilled	6000 mm (19'8 📆")	14223
		cut to size	13528
F	Rubber profile, black	roll of 20 m (65'7 ¹³ ")	15340
		cut to size	13571

Panel centering

Door panels must be centred to ensure flush fitting.



Version A With customer-supplied wooden strips

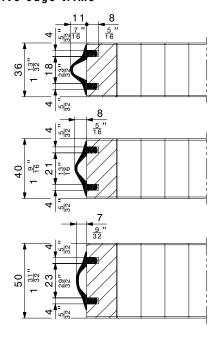


Version B With Hawa seal profile, plain anodised aluminium (13528) including black rubber profile (13571)

Protective edge trims/brush seal

		roll of	code
	Hawa protective	5 m (16'4 ²⁷ ")	10626
	edge trim, black, similar RAL 7021	10 m (32'9 ²³ ")	12325
	Hawa protective	5 m (16'4 ²⁷ ")	10627
	edge trim, brown, similar RAL 8024	10 m (32'9 ²³ / ₃₂ ")	12326
	Hawa protective edge trim, cream-white,	5 m (16'4 ²⁷ ")	10649
	similar RAL 9001	10 m (32'9 ²³ ")	12327
	Hawa protective edge trim, beige,	5 m (16'4 ²⁷ ")	15620
	similar RAL 1001	10 m (32'9 ²³ ")	15621
	Brush seal 2,6/18 x 920 mn	Brush seal 2,6/18 x 920 mm $(\frac{1}{6}"/\frac{23"}{32}" x 3' 0 \frac{7}{32}")$	
	Brush seal 2,6/18 mm x 1200	mm $(\frac{1}{8}"/\frac{23}{32}" \times 3'11\frac{1}{4}")$	13791

Protective edge trims



Locks

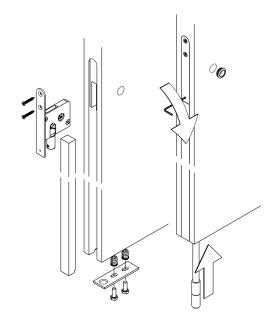
Locks			code
	Hawa Doorfix Bar bolt lock, galvanized s Backset 18 mm (32) Socket square/hexagonal Total lift of push rod: 46 n Double turn, 1st level 28 mm (1½) 2nd level 18 mm (32) Operation height: 980 mm or 830 mm (3'11 complete Push rod can be shortene. The bar bolt lock can be of the door surface as well a with a square/hexagonal l Assembly dimensions — p	7/8 mm nm (1½") ½" or 2'8½"), d. perated from s from the front key.	15077
	Hawa Doorfix Bar bolt lock, galvanized s Backset 18 mm (ﷺ) Socket square/hexagonal Total lift of push rod: 46 n Double turn, 1st level 28 mm (1½) 2nd level 18 mm (ﷺ) Operation height: 980 mm or 830 mm (3'11 complete	teel 7/8 mm $(1\frac{13}{16}")$ $\frac{13}{16}$ or $2'8\frac{11}{16}")$,	14188
	Bar bolt lock Backset 42.5 mm (1½") Socket square/hexagonal, 7/8 mm Total lift of push rod: 18 mm (½") Operation height: 960 mm (3*11½") complete The bar bolt lock can be operated from the door surface with a square/hexagonal key.		19592
	Dead bolt lock, galvanized steel, 13 mm (ﷺ) Backset 29.5 mm (ﷺ) Socket square/hexagonal 7/8 mm		10726
	Hawa bar bolt lock,	profile cylinder 17 mm ($\frac{11}{16}$ ")	16695
	13 mm ($\frac{17}{32}$) Galvanized steel	round cylinder 22 mm ($\frac{7}{8}$ ")	16696
	Backset 34.5 mm (1 ¹¹ / ₃₂ ")	square/hexagon socket 7/8 mm	16697
		profile cylinder 17 mm $(\frac{11}{16})$	18478
	Bar bolt lock, with guide pin	round cylinder 22 mm $(\frac{7}{8}")$	18479
		square/hexagon socket 7/8 mm	18388
		profile cylinder 17 mm ($\frac{11}{16}$ ")	16760
	Bar bolt lock with retention pin	round cylinder 22 mm ($\frac{7}{8}$ ")	16761
		square/hexagon	16762
	Bar bolt lock with guide pin and fixing parts	profile cylinder 17 mm $(\frac{11}{16}")$	18484
		round cylinder 22 mm $(\frac{7}{8})$	18485
	square/hexagon		18486
	Pivot bearing or deadbolt lock 13 mm (½), galvanized steel, for sliding pivot door		14087

Locks - accessories

		code
	Key for deadbolt lock to 10721, 10726, 13144	10723
	Thumbturn, chromium finish, for panel thickness 35 to 40 mm (1 $\frac{3}{8}$ " to 1 $\frac{19}{32}$ ")	13789
	Thumbturn, chromium finish, for panel thickness 41 to 57 mm (1 $\frac{5}{8}$ " to 2 $\frac{1}{4}$ ")	19806
0	Floor-mounted sleeve, dull chromium-plated brass	13858
	Strike plate, chromium-plated steel	13130
	Floor-mounted sleeve with oblong hole and chromium plated brass spring cover, Ø 36 mm $(1\frac{7.7}{16}")$	13787
	Rosette for floor-mounted sleeve 13787	17326

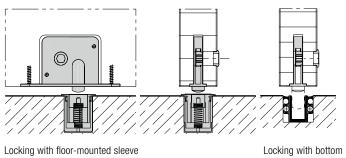
Example 1: Locking at handle height

Bar bolt lock code 19592 allows locking the sliding door at handle height.



Example 2: Floor locking

The deadbolt lock code 10726 provides unobtrusive, barely visible locking at the panel bottom edge.



code 13787

Locking with bottom guide channel



Tools

		code
al res	Fork spanner SW 22/12/13 mm $(\frac{7}{8}"/\frac{15"}{32}"/\frac{17"}{32}")$, pivot door vertical adjustment	15409
4	Fork spanner SW 17/8/13 mm (11"/5"/17")	15459
	Wrench, hexagon 5 mm $(\frac{7}{32})$, SW 11 mm $(\frac{7}{16})$	17110

Services

	code
Cutout, bar bolt lock for 17 mm ($^{11}_{\overline{18}}$), 22 mm ($^{7}_{\overline{8}}$), square/hexagon socket	22985
Cutout in suspension profile for bar bolt lock	14241
Cutout for holding device for running tracks with integrated cover	15421

Quote preparation and design

We require the following details to prepare a quote and design version for you:

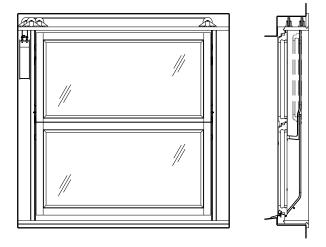
- Clearance dimensions
- Quantity of sliding doors
- Quantity of pivot doors
- Quantity of sliding pivot doors
- Door width
- Door height
- Door thickness

Order specifications

- Quantity and type of components for sliding doors, pivot doors and sliding pivot doors
- Quantity, type and length of running track
- Quantity and type of running track accessories
- Quantity, type and length of bottom guide channel
- Quantity and type of bottom guide channel accessories
- · Quantity and length of seal profile
- Quantity and length or rubber profile
- Quantity, type and length of Hawa protective edge trim
- Quantity and type of locks
- · Quantity and type of lock accessories

Planning/installation

For planning and installation purposes, please use the installation drawing code 21718 (parallel) or 21719 (90°) (→ www.hawa.ch → Hawa Productfinder)





Hardware system for vertically sliding windows weighing up to 150 kg (330 lbs.).

Description

Each sliding panel is guided laterally in plastic tracks and is equipped with a counterweight which moves on one side behind the window jamb. The counterweight has to be supplied by a contractor to suit the panel weight, and the panel is locked using a standard central locking

The cable length of 8 m (26'2 $\frac{61}{64}$ ") is designed for the following dimensions:

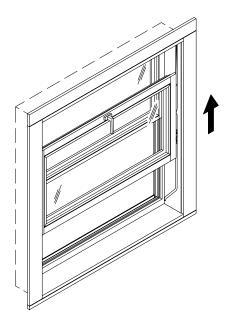
Window height up to 900 mm (2'11 $\frac{7}{16}$ "), maximum window width 3200 mm (10'6") or window height up to 1200 mm (3'11 $\frac{1}{4}$ "), maximum window width 2000 mm (6'6 $\frac{3}{4}$ "). For larger panels, the cable must be ordered separately. (→ calculation for the cable length)

Features of the Hawa Vertical 150

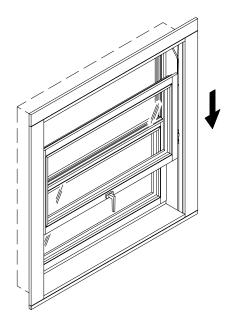
- One sliding panel
- White, black or brown plastic guide profiles
- Smooth sliding properties
- Maintenance-free
- Mortising of guide channel with all-purpose mortising template
- Standard window and frame rebates

Ventilation

To permit additional ventilation, the upper panel (Hawa Vertical 150/3) can be fitted with a standard tilting window mechanism.







Hawa Vertical 150/5

Set

	panel	code
Hawa Vertical 150/3, 150/5 Partial set, without guide channels	1	20915

Set comprising

Set comprising			pieces	code
	Cable retainer, complete)	2	20914
	Edge fixed guide bracke	t	2	20913
(man)	Safety pin		2	20912
	Pulley block, alu		3	10527
	Plastic wheel with ball bearings, 0 70 mm (2 3/4")		3	10764
	Cable 4 mm (52"), unit 8 m (26'2 64")		1	10575
\sim	Self-adhesive	brown	2	10650
	rubber spacer	white	2	10651
000	Set of eye bolt and cabl for counterweight	e clamp	1	10797
125	Set of screws for particle board		1	20911
	Track deadbolt lock, steel galvanized, deadbolt 8 mm $(\frac{6}{16}")$		2	20899
2 0	Set of 2 pieces press fit roses, brass dull nickel finish		1	13926
	Panel bracket with whee	el	2	14465

Set of guide channels to Hawa Vertical 150/3 and 150/5

			code
	Set of guide channels, plastic for code 20915	brown	10322
		black	17135
		white	10324

Accessories

			code
		brown	10566
	Middle part of guide channel, 600 mm (1'11 $\frac{5}{8}$ ") plastic	black	17140
	- 7	white	10580
	Cable 4 mm (5) cut to size		10531
Key for deadbolt lock		10723	
	All-purpose mortising template		14399
Drilling jig for edge fixed guide bracket		12909	

The hardware system components are supplied for a maximum window height of 1200 mm (3'11 $\frac{1}{4}$ "). To accommodate panels of a greater height, additional guide channels have to be ordered: $10566/600 \text{ mm} (1'11\frac{5}{8}")$ brown, $17140/600 \text{ mm } (1'11\frac{5}{8}") \text{ black, or } 10580/600 \text{ mm } (1'11\frac{5}{8}"), \text{ white.}$

Calculation for the cable length

Length of cable = $2 \times H + 1 \times W + 1000 \text{ mm } (3'3\frac{3}{8}")$

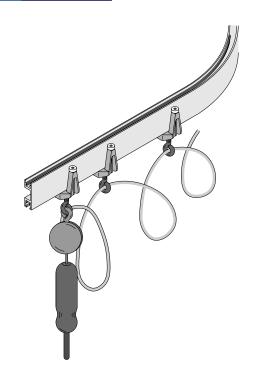
Order specifications

Order specifications for panels larger than 900 mm x 3200 mm $(2'11\frac{7}{16}" \times 10'6")$, or 1200 mm x 2000 mm $(3'11\frac{1}{4}" \times 6'6\frac{3}{4}")$:

- Height of sliding panel
- Jamb inside dimension
- Quantity of hardware sets
- Quantity and type of guide channels
- Quantity and type of accessories

Planning/installation

For planning and installation purposes, please use the installation drawing code 20463. (→ www.hawa.ch → Hawa Productfinder)



Transport system for loads up to 40 kg (88 lbs.) per trolley.

Description

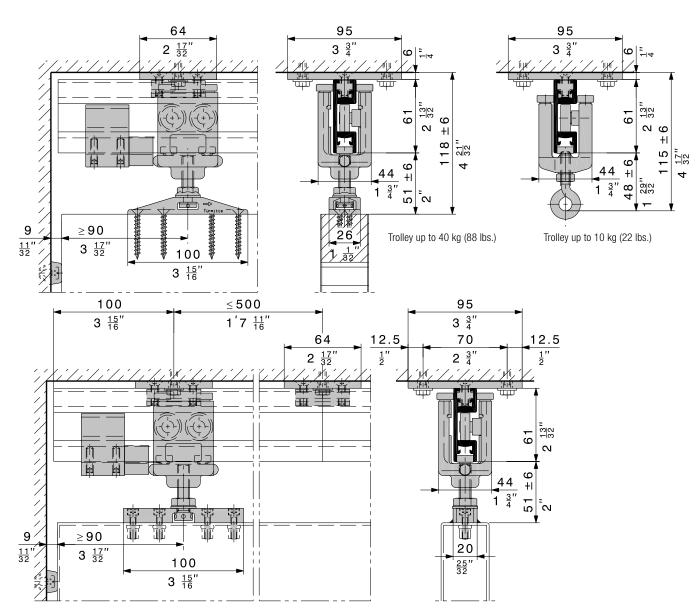
The Hawa Varioflex 40 TS is a hardware system with outstanding cornering properties. The plug-in track system with straight sections and curved rails of 15, 30, 45, 60, 75 and 90 degrees permits complete freedom with regard to construction. Rail joints are linked simply and precisely by means of coupling elements on both sides.

Applications

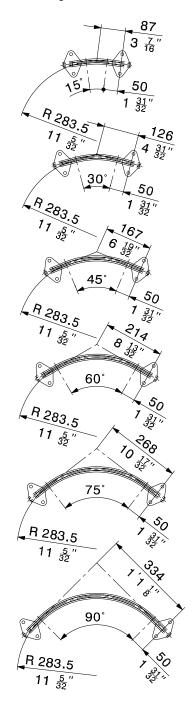
Map boards, projection walls, work stations with electrical cables and compressed air hoses. Storage and display of articles in shops, snowboards e.g.

Features of the Hawa Varioflex 40 TS

- · Modular system
- Trolley for loads up to 40 kg (88 lbs.) with 2 suspension wheels and 6 guide rollers
- Trolley for loads up to 10 kg (22 lbs.) with 2 suspension wheels and 4 guide rollers
- Outstandingly smooth cornering
- Adjustable vertically $\pm 6 \text{ mm} \left(\frac{1}{4}\right)$



Curve running tracks



Installation

When assembling the running track, a top fixing $\,$ plate must be attached every 500 mm (1'7 $\frac{11}{16}$ ")

Order specifications

- Length of running track
- Quantity and type of curve running track
- Quantity of top-fixing plate
- Quantity of coupler to running track
- Quantity of running track cover cap sets
- Quantity and type of components

Running tracks

			code
	Running track, alu plain anodized	6000 mm (19'8 ⁷ / ₃₂ ")	13975
	maining track, are plain anouized	cut to size	14345
		15°	15125
		30°	15127
	Inner curve running track,	45°	15129
	alu plain anodized	60°	15131
7		75°	15133
		90°	14341
	Outer curve running track, alu plain anodized	15°	15126
		30°	15128
		45°	15130
		60°	15132
		75°	15134
		90°	15113
	Top-fixing plate, dull chromium-pl (for straight and standard curves)	ated steel	14463
	Top-fixing plate, dull chromium-plated steel		14468
	Coupler to running track, galvanized steel		17232
	Set of running track cover caps, plastic grey, left/right		14442

Components

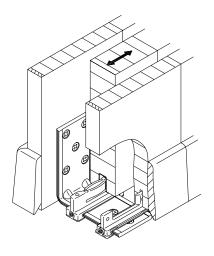
Components		
		code
	Trolley with 2 plastic-tyred suspension wheels and 6 guide rollers, M10 (load per trolley 40 kg [88 lbs.])	14337
	Trolley with 2 plastic-tyred suspension wheels and 4 guide rollers, M8 (load per trolley 10 kg [22 lbs.])	15137
	Suspension plate with hanger bolt M10 without fixing screws, steel galvanized (steel constructions)	14484
	Two-way suspension plate, with hanger bolt M10 and fixing screws (wood constructions)	10489
	Eye bolt with nut, galvanized steel, M10 x 40 mm (ﷺ x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15174
	Eye bolt with nut, galvanized steel, M8 x 30 mm $(\frac{5}{16}$ x $1\frac{3}{16}$)	15173
	Bumper, alu plain anodized	14368
	Bumper door stop, to running track	21010
	Screw-on rubber door stop	10629

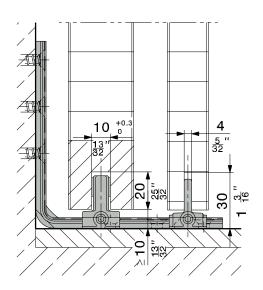
Accessories Patents

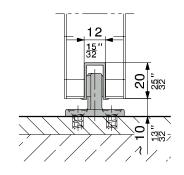
Hawa Confort 120

This hardware system provides a convenient solution to an age-old problem. Inadequate means of attachment to crumbly sub-flooring or in the vicinity of a floor heating system can give rise to a variety of problems. Hawa Confort 120 provides the perfect solution, the floor guide is attached to the wall. The guide and catch components are laterally adjustable (where a trim wall is available).

Please use the corresponding installation instructions code 21793.







42

Floor guides for sliding doors up to 120 kg (264 lbs.), groove widths 5, 7,10 mm ($\frac{7}{32}$ "/ $\frac{9}{32}$ "/ $\frac{13}{32}$ ")

Floor guides for sliding doors up to 120 kg (264 lbs.	,, g. 5515 Widing 5, 7, 10	(32 / 32 / 3	code
42 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Floor-mounted guide, plastic, groove width 5 mm ($\frac{7}{42}$)		10507
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	Floor-mounted guide, galvanized steel, groove width 5 mm $(\frac{\pi}{2})$		10508
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Guide, rattle proof, for sci to floor, black plastic, groove width 7 mm (32")	rew mounting	20635
4 2 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Guide, rattle proof, for screw mounting to	1 piece	14427
137 28	floor, black plastic, groove width 10 mm (ﷺ)	set of 10 pieces	25958
35 7 35 10	Guide, rattle proof, for screw mounting to floor, black plastic, groove width 10 mm ((32")		25369
001 100 100 100 100 100 100 100	Hawa Confort 120, single, laterally adjustable floor-mounted guide, rattle proof, black plastic, groove width 10 mm (ﷺ)		14649
28 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Hawa Confort 120, single, laterally adjustable floor-mounted guide, rattle proof, black plastic, groove width 10 mm (32")		16158
2000 2000 2000 2000 2000 2000 2000 200	Hawa Confort 120, dual, laterally adjustable floor-mounted guide, rattle proof, black plastic and holding device for trim wall, groove width $10 + 4 \text{ mm} \left(\frac{13^n}{22} + \frac{5}{32}\right)$		14651
200 1-1-3-11	Guide profile, plastic, black, 1300 mm (4'3 \frac{3}{16}"), groove-mounted, set of 10 pieces		14540

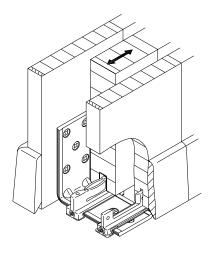
Patents **Accessories**

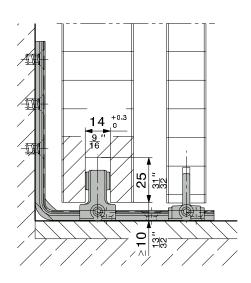
Hawa Confort 160

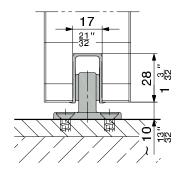
This hardware system provides a convenient solution to an age-old problem.

Inadequate means of attachment to crumbly sub-flooring or in the vicinity of a floor heating system can give rise to a variety of problems. Hawa Confort 160 provides the perfect solution, the floor guide is attached to the wall. The guide and catch components are laterally adjustable (where a trim wall is available).

Please use the corresponding installation instructions code 15237.







Floor guides for sliding doors up to 160 kg (352 lbs.), groove width 14 mm ($\frac{9}{16}$)

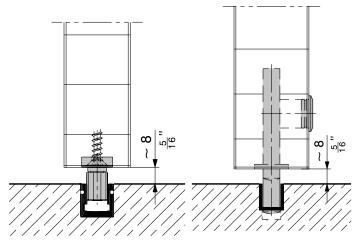
		code
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Guide, rattle proof, for screw mounting to floor, plastic black, groove width 14 mm (वैं।)	14711
3 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Hawa Confort 160, single, laterally adjustable floor-mounted guide, rattle proof, plastic black, groove width 14 mm (៖")	15274
100 100 100 100 100 100 100 100 100 100	Hawa Confort 160, dual, laterally adjustable floor-mounted guide, rattle proof, plastic black, and holding device for trim wall, groove width 14 + 4 mm ($\frac{9}{16}$ "+ $\frac{5}{32}$ ")	15275
3 15 1 2 8 2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Hawa Confort 160, single, laterally adjustable floor-mounted guide, rattle proof, plastic black, with long bracket, groove width 14 mm (वैं	15623
7 4 1 4 3 5 5 6 5 3 5 5 5 7 1 4 3 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Guide, rattle proof, for screw mounting to floor, adjustable, groove width 14 mm (वैं	15638
7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7	Guide profile, plastic black, 3000 mm (9'10 ±"), groove-mounted, set of 5 pieces	14963

Floor guides and bottom guide profiles, inside dimension 10 mm ($\frac{13}{32}$)

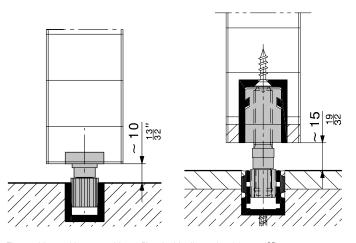
Caution: Hole positions vary			code
9 1000	Single floor guide, screw mounting, rattle proof, wood		14283
399	Bar bolt lock 9 mm $(\frac{3}{8})$,	with guide pin	18750
30 5 3 10 3 10 3 10 3 10 3 10 3 10 3 10	profile cylinder	without guide pin	18836
3 10 00 12 00	Bar bolt lock 9 mm $(\frac{3}{8}")$, square/hexagon socket, with slip-fit rose	with guide pin	18833
90 90 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Bar bolt lock 9 mm $(\frac{3}{8})$, square/hexagon socket	without guide pin	18898
4 6 6 6 6 6 6 6 6 6	Bottom guide	undrilled 6000 mm (19'832")	10235
13	channel, brass, predrilled 14 x 13 x 1,5 mm (9/16 x 37/2" x 1/8")	predrilled 6000 mm (19'8 ⁷ / ₃₂ ")	10236
317	(16 A 32 A 8)	cut to size	10237
	Bottom guide	3500 mm (11'5 ¹³ ")	18864
9 1700	channel, alu plain anodized, predrilled,	6000 mm (19'8 ⁷ / ₃₂ ")	18216
	16x16x3 mm $(\frac{5}{8}"x\frac{5}{8}"x\frac{1}{8}")$	cut to size	18477
25 CC 1882	End stopper for alu bottom guide channel, 16 x 16 mm ($\frac{5}{8}$ " x $\frac{5}{8}$ ")		18652

Floor guides and bottom guide profiles, inside dimension 14 mm ($\frac{9}{16}$)

Caution: Hole positions vary			code
20 20 20 20 20 20 20 20 20 20 20 20 20 2	Guide plate with rattle proof guide piece, 14 mm $(\frac{9}{16})$		13325
29 29 29 29 29 29 29 29 29 29 29 29 29 2	Guide with plastic slider 14 mm $(\frac{9}{16})$ and suspension block		13781
34	Multi-purpose suspension and	6500 mm (21'3 32")	10346
1 26 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	retainer profile, alu plain anodi- zed, predrilled	cut to size	10347
0 N N N N N N N N N N N N N N N N N N N	Bottom guide channel, alu plain anodized,	6000 mm (19'8 ⁷ / ₃₂ ")	14414
20	predrilled 20 x 20 x 3 mm (\$\frac{25}{32}" x \frac{25}{32}" x \frac{1}{8}")	cut to size	14415
28 32 3 1 1 2 8	Bottom guide channel, brass, predrilled	6000 mm (19'8 ⁷ / ₃₂ ")	10245
300	20 x 28 x 3 mm (35 x 1 1 8 x 1 8)	cut to size	10247
24 15"	Bottom guide channel, alu	6000 mm (19'8 ⁷ / ₃₂ ")	15405
2.4 150	plain anodized, undrilled	cut to size	15554
To a series of the series of t	Stop bumper for 15405 and 15554		15636







Floor guides and bottom guide profiles, inside dimension 14 mm ($\frac{9}{16}$)

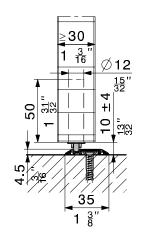
Locks for bottom guide channels, inside dimension 14 mm ($\frac{9}{16}$)

			code
	Hawa Doorfix Bar bolt lock, galvanized steel Backset 18 mm (ﷺ) Socket square/hexagonal 7/8 mm Total lift of push rod: 46 mm (1⅓) Double turn, 1⁵¹ level 28 mm (1⅓) 2⁵¹ level 18 mm (∰) Operation height: 980 mm or 830 mm (3'11⅓ or 2'8⅓) Push rod can be shortened.		15077
38	The bar bolt lock both sides from thas well as from th	ne door surface	
	Assembly dimensi	ons → page 46	
44 50 00 00 00 00 00 00 00 00 00 00 00 00	13 mm (½") ster 13 mm (½") Sackset 29.5 mm (½") Socket square / hexagonal 7/8 mm Stainless WNR 1.	Galvanized steel	10726
		Stainless steel WNR 1.4301/ AISI 304	17131
4 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Dead bolt lock, 13 Galvanized steel, with guide pin pla Backset 29.5 mm Socket square/he	stic-tyred $(\frac{15}{32}")$	13550
87_7		profile cylinder 17 mm (11/16)	16695
75 05 05 05 05 05 05 05 05 05 05 05 05 05	Hawa bar bolt lock, 13 mm (12") Galvanized steel	profile cylinder 17 mm (11"), Stainless steel WNR 1.4301/ AISI 304	21087
	Backset 34.5 mm (1 ¹¹ / ₃₂ ")	round cylinder 22 mm ($\frac{7}{8}$ ")	16696
A A B		square/hexagon socket 7/8 mm	16697

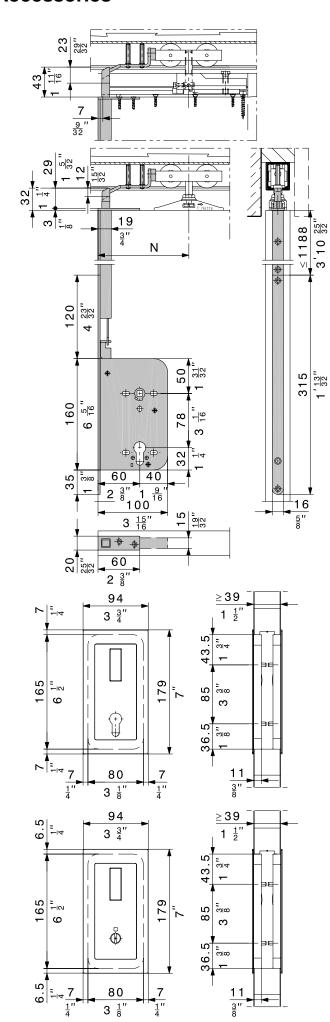
		code
90 3/3 52 2/6	Key for locks, 7 mm ($\frac{0}{80}$ ")	10723
1 2 4 5 8 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Thumbturn, chromium finish, for door thicknesses of $35-40$ mm $(1\frac{3}{8}"-1\frac{19^n}{22}")$	13789
345	Thumbturn, chromium finish, for door thicknesses of 41–57 mm $(1\frac{6}{8}"-2\frac{1}{4}")$	19806
15 15 15 15 15 15 15 15 15 15 15 15 15 1	Slip-fit rose, brass dull nickel finish	13858
4 old	Strike plate, chromium-plated steel	13130
Ø20 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sleeve closure including fitting screw	19149
Ø 36 1 1 3 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Floor-mounted sleeve with oblong hole and chromium-plated brass spring, Ø 36 mm $(1\frac{7}{16})$	13787
Ø46	Rosette for floor-mounted sleeve 13787	17326

Surface mounted bottom guide

		mm/inch	code
		2500 mm (8'2 ⁷ / ₁₆ ")	19348
	Single bottom guide profile, alu plain	3500 mm (11'5 13")	19349
	anodized	6000 mm (19'8 ⁷ / ₃₂ ")	18956
	cut to size	19350	
	Set of fixing parts for bottom guide profiles, 5 pieces (2 pieces per metre)		19162
ĵŪ	Spring loaded floor guide, for 1 wooden sliding door (2 pieces)		19155



46



Hawa Silent Stop, bar bolt lock for sliding doors with a height of up to 2350 mm (7'8 $\frac{7}{16}$ ") and a max. door weight of 160 kg (352 lbs.).

Description

This reliable lock closes in the running track. Special strike plates are available for installing the lock in the running tracks of Hawa Junior hardware for door weights of up to 160 kg (352 lbs.). A variety of corresponding inlet apertures are also available.

Bar bolt lock Hawa Silent Stop

	code
Steel galvanized Left- and right-hand use Backset 60 mm ($2\frac{63}{64}$ ") Aperture spacing 78 mm ($3\frac{5}{64}$ ") Forend 16/3/315 mm ($\frac{5}{8}$ "/ $\frac{1}{8}$ "/ $1\frac{13}{32}$ ") Socket 8 mm ($\frac{5}{16}$ ") Without strike plate Push bar, guide profile and lock plate can be shortened	
with hinged-ring key	14349
for 17 mm (ﷺ) profiled cylinder	14350
with 7 mm $(\frac{9}{32}")$ socket (WC)	14351

Inlets for Hawa Silent Stop bar bolt lock

		code
	Set of inlets Stainless steel brushed Wood thickness $39-70~\text{mm}~(1\frac{17''}{32''}-2\frac{3''}{4}')$ Aperture spacing $78~\text{mm}~(3\frac{5}{64}'')$ Set comprising: 2 inlets Thumbturn above, $8~\text{mm}~(\frac{5}{16}'')$ thorn	
	with hinged-ring key	24831
	for 17 mm ($\frac{43}{64}$ ") profiled cylinder	24832
ò	Set of inlets for WC bar bolt lock Stainless steel brushed Wood thickness $39-70~\text{mm}~(1\frac{17}{32}-2\frac{3}{4}")$ Aperture spacing $78~\text{mm}~(3\frac{5}{64}")$ Set comprising: 1 inlet external, with visible plate green/red 1 inlet interior, thumbturn above, $8~\text{mm}~(\frac{5}{16}")$ thorn, thumbturn WC, $7~\text{mm}~(\frac{5}{22}")$ thorn	24833

The indicated minimum door thickness refers to sliding doors with a mortise located exactly in the centre of the door panel.

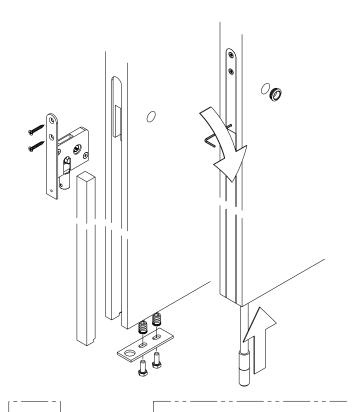
Special strike plates for Hawa Silent Stop

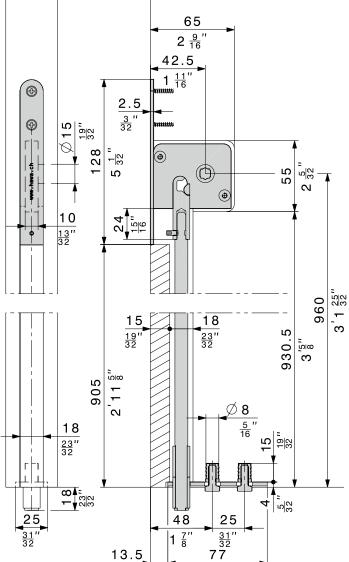
		code	
		Hawa Junior 40	10746
. A		Hawa Junior 80	10734
	Strike plate, steel galvanized	Hawa Junior 120	14872
		Hawa Junior 160	10745
		Hawa Silenta 150 B	10736
	Strike plate to Hawa Media 70		10739

Hawa bar bolt lock for locking the sliding shutters, folding- and centre fold walls at handle height.

Hawa Bar bolt lock

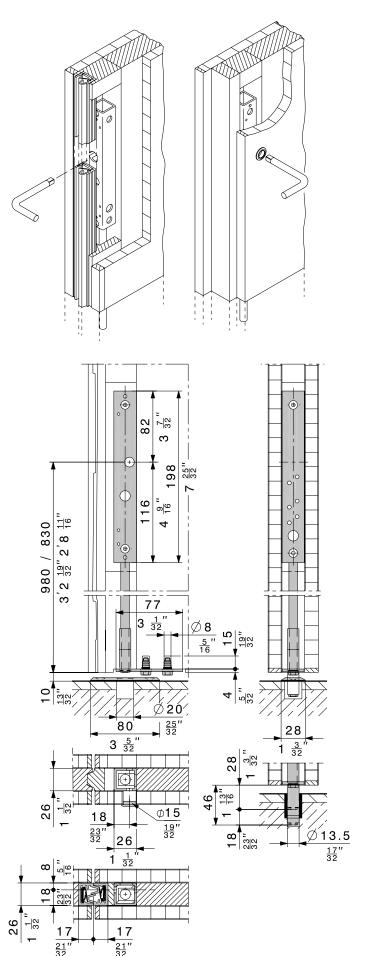
		code
	Bar bolt lock Backset 42,5 mm (1½") Socket square/hexagonal, 7/8 mm Total lift of push rod: 18 mm (½") Operation height: 960 mm (3'11½") complete The bar bolt lock can be operated from the door surface with a square/hexagonal key.	19592
	Thumbturn, chomium finish, for panel thickness 35 to 40 mm $(1\frac{3}{8}"$ to $1\frac{19}{32}")$	13789
	Thumbturn, chomium finish, for panel thickness 41 to 57 mm $(1\frac{5}{8}"$ to $2\frac{1}{4}")$	19806
	Key for deadbolt lock	10723
0	Slip-fit rose, brass dull nickel finish	13858
0	Floor-mounted sleeve with oblong hole and chromium plated brass spring, Ø 36 mm $(1\frac{7}{16})$	13787
	Rosette for floor-mounted sleeve 13787	17326
	Strike plate, chromium-plated steel	13130





Subject to modification. Metric specifications are exact. Inches are approximate.

3 1 32"

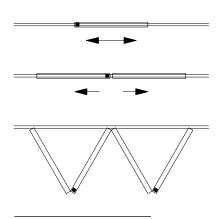


Hawa Doorfix, bar bolt lock for closing, guiding and immobilizing sliding doors, room dividing walls, folding and accordion walls. Total lift of push rod: 46 mm $(1\frac{13}{16})$.

Bar bolt lock Hawa Doorfix

Bar bolt lock Hawa D	OTHA		code
	Galvanized steel Backset 18 mm (ﷺ) Socket square/hexagonal 7/8 mm Total lift of push rod: 46 mm (1½) Double turn, 1st level 28 mm (1½) 2nd level 18 mm (ﷺ) Operation height: 980 mm or 830 mm (3'11½) or 2'8½), complete Push rod can be shortened. The bar bolt lock can be operated both sides from the door surface as well as from the front.		15077
	Strike plate, chromium-plated steel		13130
0	Floor-mounted sleeve with oblong hole and chromium plated brass spring, Ø 36 mm (1.7 m² "b")		13787
	Rosette for floor-mounted sle	eve 13787	17326
	Bottom guide channel, brass, predrilled,	6000 mm (19'8 ⁷ / ₃₂ ")	10245
	20 x 28 x 3 mm ($\frac{25}{32}$ "x 1 $\frac{1}{8}$ " x $\frac{1}{8}$ ") (Caution: Hole positions vary)	cut to size	10247
	Seal profile, alu plain	6000 mm (19'8 ⁷ 3")	14223
	anodized, predrilled	cut to size	13528
	Rubber profile, black	roll of 20 m (65'7 ¹³ ")	15340
	Transer profile, black	cut to size	13571

Examples of use



Planning/installation

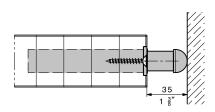
For planning and execution please use the installation drawing code 15078. (→ www.hawa.ch → Hawa Productfinder)

Hinges

			code
1232 1232		galvanized	14298
71 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hinge with	dull nickel finish	14299
8 36	sliding bearing plastic, steel	brass effect	14300
7.5		stainless steel WNR 1.4301/ AISI 304	14588
24 24 25 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Hinge, stainless steel WNR 1.4301/AISI 304		23688
31 10 9 1 8	Ball bearing hinge, steel, with fixing screws	dull nickel finish	10652
33,700		burnished	10666

Spring-loaded door stop for heavy sliding doors

	code
Spring-loaded mortise-type door stop, galvanized steel, screw-fit	10591

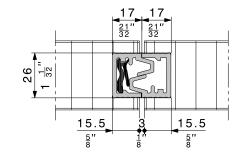


Bottom door stop

•			
Caution: Minor differences in colour are possible		code	
1 3 3 9	Bottom door stop	dull chromium finish	20773
	with centering assembly	stainless steel effect	21473
The bottom door stop quietly and gently stalls sliding doors. Sliding doors should be stopped simultaneously at top and bottom.			

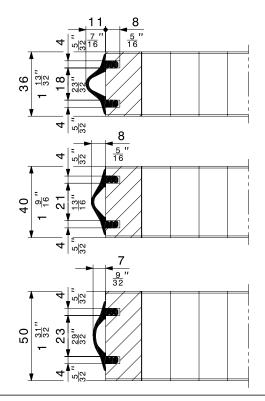
Seal profiles

			code
	Seal profile, alu plain anodized, predrilled	6000 mm (19'8 📆")	14223
		cut to size	13528
	Rubber profile, black	roll of 20 m (65'7 ¹³ ")	15340
		cut to size	13571



Hawa protective edge trims, rubber

		roll of	code
	Hawa protective edge trim, black, similar RAL 7021	5 m (16'4 ²⁷ ")	10626
		10 m (32'9")	12325
	Hawa protective edge trim, brown, similar RAL 8024	5 m (16'4 ²⁷ ")	10627
		10 m (32'9")	12326
	Hawa protective edge trim, cream-white, similar RAL 9001	5 m (16'4 ²⁷ ")	10649
		10 m (32'9 ³³ ")	12327
	Hawa protective edge trim, beige,	5 m (16'4 ²⁷ ")	15620
	similar RAL 1001	10 m (32'9∰")	15621



General Terms and Conditions (GTC)

1. General information

- 1.1 These General Terms and Conditions apply to all contractual arrangements entered into with Hawa Sliding Solutions AG, Mettmenstetten, Switzerland (Hawa), and they constitute an integral element of these contractual arrangements. Hawa does not recognize contractual partners' contrary or alternative terms and conditions.
- 1.2 In order to be valid, all agreements made between the contractual parties must be made in writing, especially in the case of any deviations from these General Terms and Conditions.
- 1.3 Third parties not party to the contract shall have no entitlement to the assertion of any provisions whatsoever of these General Terms and Conditions.
- 1.4 If any individual provisions contained in these General Terms and Conditions are deemed by a competent authority to be wholly or partially invalid or unenforceable, this shall not affect the remaining provisions or the remainder of the questionable provisions of these General Terms and Conditions.

2. Deliveries

- 2.1 Purchase orders shall only be binding on Hawa, if it has confirmed these in writing. If no specific time or date has been agreed for the delivery of supplies and services, Hawa shall deliver these in accordance with its standard business operations.
- 2.2 In the event of any ambiguities or disagreements concerning the content of a purchase order, Hawa's written order confirmation shall be authoritative, unless the contractual partner has raised an objection to the order confirmation within 24 hours (Monday-Friday), (this time limit shall be correspondingly extended if it expires on a weekend).
- 2.3 Hawa shall only be bound by dates and time limits for the delivery of supplies and services, if these have been defined in writing and confirmed by Hawa in a binding manner. Hawa's fulfilment of dates and time limits is conditional on the timely receipt of all the documents and releases required from the contractual partner and the fulfilment of all its other obligations. Dates and time limits shall otherwise be appropriately extended.
- 2.4 In the event that Hawa fails to meet confirmed dates and time limits, the contractual partner must afford it a reasonable additional period of time to deliver performance. If Hawa also fails to render delivery within this additional period of time, the contractual partner shall be entitled to rescind the agreement and demand the repayment of all payments already made. The contractual partner shall have no fartherreaching rights or claims, especially not to any compensation for delayed performance, or for indirect or third-party damage.
- 2.5 Hawa is entitled to make partial deliveries. In the event that the contractual partner is in default of payment, Hawa shall be entitled to withhold other agreed supplies and services, until all outstanding payments have been settled, and adequate collateral has been provided in respect of future supplies and services. The contractual partner has no right of rescission in the event that a delivery is withheld due to a default of payment.
- 2.6 Subject to any alternative agreement concluded between the contractual parties, deliveries shall be made ex Hawa's warehouse at the cost and risk of the contractual partner (see too No. 3.2). Return consignments of goods require the explicit, prior consent of Hawa. In this case, there will be a credit up to a maximum of 65% of the product value. The contractual partner shall bear the costs of shipment and processing of return consignments (incoming goods inspection, including packaging, etc.). Custom-made products may not be returned.
- 2.7 Unless agreed otherwise with the contracting partner, the delivery terms shall be interpreted in accordance with Incoterms 2010 (International Commercial Terms), of the International Chamber of Commerce (ICC).

3. Prices and conditions of payment

- 3.1 Agreements concerning prices, cash discounts and rebates, etc. shall only be binding on Hawa if agreed in writing. Otherwise the prices contained in Hawa's current price list or order confirmations shall apply. Hawa may amend these price lists at any time. The current price lists shall apply. Prices are listed in Swiss Francs (excluding VAT), unless otherwise explicitly agreed in writing.
- 3.2 Hawa reserves the right to pass on freight charges. The full freight or postage charge will be invoiced for express, postal or direct consignments. All taxes and charges will be passed on. Hawa reserves the right to charge packaging at cost price. Any requests for special packaging shall be charged separately.
- 3.3 Payment is deemed made, once the relevant amount is credited to Hawa's account. In the event of a default of payment, Hawa shall be entitled, without having to issue a reminder, to charge interest from the 31st day following the invoice date, at the rate charged by commercial banks on current account overdrafts, but no less than 5% in any case.

Subject to modification

General Terms and Conditions (GTC)

- 3.4 The contractual partner's payments will firstly be applied against the oldest outstanding payments. If costs and interest have already accrued, payments shall first be credited against the costs, then the interest, and finally against the principle debt.
- 3.5 Payments due to Hawa may only be offset against the contractual partner's counter-claims, if Hawa has consented to this or if a res judicata decision has been issued to this effect.

4. Retention of title

- 4.1 The delivered goods shall remain the property of Hawa, until the payment of all of Hawa's claims against the contracting partner (including the settlement of all outstanding current account balances). In the event that various goods are combined, the retention of title shall endure in the relevant proportion of the value of the new goods. Hawa is entitled, without any involvement on the part of the contractual partner, to register the retention of title in the retention of title register («Eigentumsvorbehaltsregister») of the competent debt enforcement office, and the contractual partner authorizes Hawa to undertake the actions necessary for this purpose.
- 4.2 If the contractual partner resells the goods prior to the fulfilment of all of Hawa's claims, it here and now, by way of precaution, assigns to Hawa (irrespective of any legally valid retention of title) the corresponding claims established by way of the resale or arising through any other legal basis.
- 4.3 In the event of any third-party interference with the goods subject to a retention of title arrangement, the contracting partner shall be duty bound to indicate Hawa's ownership of said goods, and notify Hawa accordingly.
- 4.4 In the event of default of payment on the part of the contractual partner, Hawa shall be entitled to repossess the goods delivered. Hawa's repossession of goods shall not constitute any termination of the agreement, and will not release the contractual partner from its contractual duties.

5. Product performance, obligations to provide information and instructions

- 5.1 Unless the product performance is described in Hawa's current catalogues, brochures or service descriptions etc., the specifications of the specific products must be agreed with Hawa in writing. Unless an agreement has been made to the contrary, the technical specifications may be changed at any time.
- 5.2 The contractual partner acknowledges that the fitness for purpose of the products is dependent on a wide range of factors, and it undertakes to read the relevant design and assembly instructions.
- 5.3 In order to fulfil its obligations to provide information and instructions, Hawa provides contracting partners (usually specialist dealers, architects, designers, consultants, workshops/tradesmen, etc.) with catalogues, brochures, design and installation manuals, maintenance manuals, operational advice and training.
- 5.4 Contractual partners are duty bound to observe Hawa's product information. All requisite instructions are available on Hawa's website, or can also be requested from Hawa. They must be passed on to workshops/tradesmen and users as necessary.

6. Drawings and tools

- 6.1 Hawa reserves ownership to construction drawings prepared and issued by it specifically for a particular job. Unless Hawa has issued its consent, these may not be passed on to any other parties, or copied or otherwise reproduced.
- 6.2 Tools produced for special orders shall remain the property of Hawa. The contractual partner will not be able to demand them, even if it has contributed to the tool costs. Special agreements reserved.
- 6.3 Hawa shall not be liable for any and all consequences resulting from patent or other property right infringements resulting from deliveries made in accordance with the contractual partner's instructions. The contractual partner undertakes to indemnify Hawa fully and unreservedly in such cases.

General Terms and Conditions (GTC)

7. Warranty of title, product warranty, liability

- 7.1 Hawa guarantees that the products do not violate the intellectual rights of any third parties.
- 7.2 The contracting partner must inspect supplies and services for defects immediately upon receipt. Hawa must be promptly notified of any complaints; otherwise the purchased goods are deemed accepted.
- 7.3 With the exception of parts subject to wear and tear, Hawa warrants the flawless functioning of the products delivered by it, as well as the durability of all parts, for a period of 2 years commencing from the transfer of risk. This product warranty does not include damage due to natural wear and tear, improper use, failure to observe installation and maintenance instructions, changes to the goods as delivered or to spare parts that do not correspond to Hawa's original specifications.
- 7.4 Hawa may demand that the contracting partner return parts about which a complaint has been justifiably made; this shall be performed at the partner's cost and risk. Defects affecting parts of a delivery do not entitle the contractual partner to reject or return the entire delivery.
- 7.5 In the case of justified complaints, the contracting partner is entitled to subsequent improvement (repair) or replacement of the defective part (the decision resting with Hawa). Subsequent improvements or substitute deliveries performed by Hawa are covered by the same product warranty that Hawa extended to the original delivery, except this shall be limited in time to 6 months following the acceptance of the subsequent improvement or the receipt of the substitute delivery.
- 7.6 All other liability, irrespective of the legal basis, is explicitly repudiated, insofar as this is legally permissible. This applies particularly to indirect and third-party damage.

8. Applicable law, legal venue

- 8.1 All contractual agreements concluded with Hawa shall be exclusively governed by Swiss law to the exclusion of the rules on the conflict of laws, and the United Nations Convention on Contracts for the International Sale of Goods (CISG).
- 8.2 The exclusive legal venue for all disputes arising from or in connection with the contractual agreements between Hawa and the contractual partner shall be that court with jurisdiction for the place at which Hawa has its registered address. Hawa is also entitled to pursue legal actions against the contractual partner before that court with jurisdiction for the place at which the latter has its registered address.

