

Architectural hardware wood

Hawa Ordena	Hawa 20 C
Hawa Silenta	Folding wall
Hawa Media	Hawa Aperto
Hawa Variofold	Hawa Variotec
Hawa Centerfold	Hawa Vertical
	Hawa Varioflex

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 Mettmensstetten. 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

Pages 6–15

Sliding doors



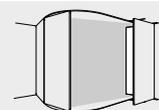
Pages 16–25

Folding-/Centre fold “Accordion” walls



Pages 26–37

Wood sliding partitions



Pages 38–39

Windows



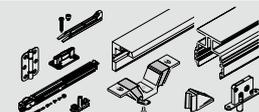
Pages 40–41

Transport system



Pages 42–49

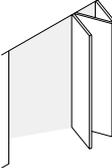
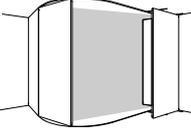
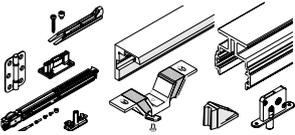
Accessories



Pages 50–52

General Terms and Conditions (GTC)

Product index

	Recommended applications in:			For external use		Curved installations Minimum radius mm/inch	Mode of fixing	
	Residential buildings	Public buildings	Industrial buildings	Non coastal areas	Coastal areas		Wall fitting	Ceiling fitting
Sliding doors 	●	①		①				●
	●	●						●
	●	●	●	①				●
	●	①				500 (1'7 ¹¹ / ₁₆ ")	●	●
Folding-/Centre fold "Accordion" 	●	●	①	①				●
	●	●	①	①				●
	●	●	●					●
	●	●		①				●
Wood sliding partitions 	●	①		●	①	2000 (6'6 ³ / ₄ ")		●
	●	●	①	①		4000 (13'1 ¹ / ₂ ")		●
Windows 	●	●	①	●	①			
Transport system 	●	●	●			500 (1'7 ¹¹ / ₁₆ ")		●
Accessories 	●	①						
Miscellaneous								

① possible under certain conditions

Integration in concrete ceilings with Hawa Adapto	Track noise levels		www.hawa.ch		Hardware systems	Maximum door weight	Pages
	Low thanks to plastic roller surface	Relatively high because steel roller surface	Hawa Productfinder → full information	Hawa Systemplanner → planning and quoting			
●			●		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 kg	176 lbs. 16
●			●	●	Hawa Centerfold 80 H	80 kg	176 lbs. 20
		●	●		Hawa 20 C Folding wall 120	120 kg	264 lbs. 24
●							
●			●	●	Hawa Aperto 60 H	60 kg	132 lbs. 26
●			●	●	Hawa Variotec 150 H	150 kg	330 lbs. 32
●			●		Hawa Vertical 150/3, 150/5	150 kg	330 lbs. 38
●			●		Hawa Varioflex 40 TS	40 kg	88 lbs. 40
					Bottom guides, Locks		42
					Hawa Silent Stop, -Bar bolt lock, -Doorfix		46
					Hinges, Profiles		48
					General Terms and Conditions (GTC)		50

For frameless, full room-height sliding doors.

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

Description

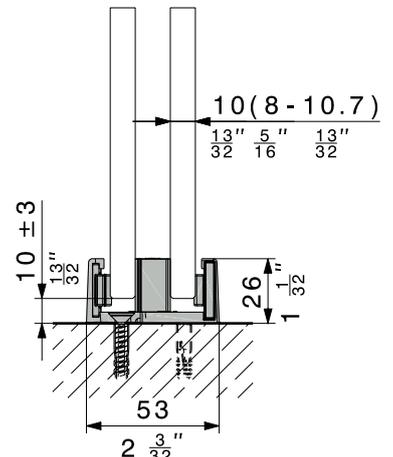
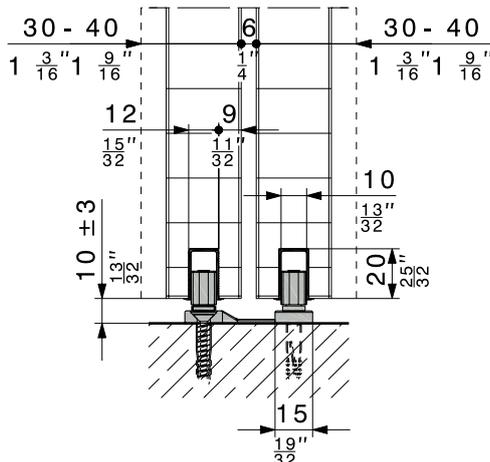
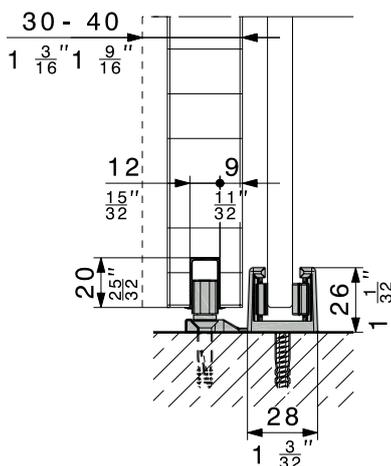
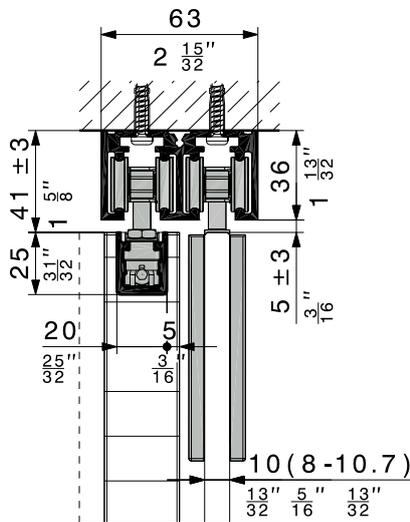
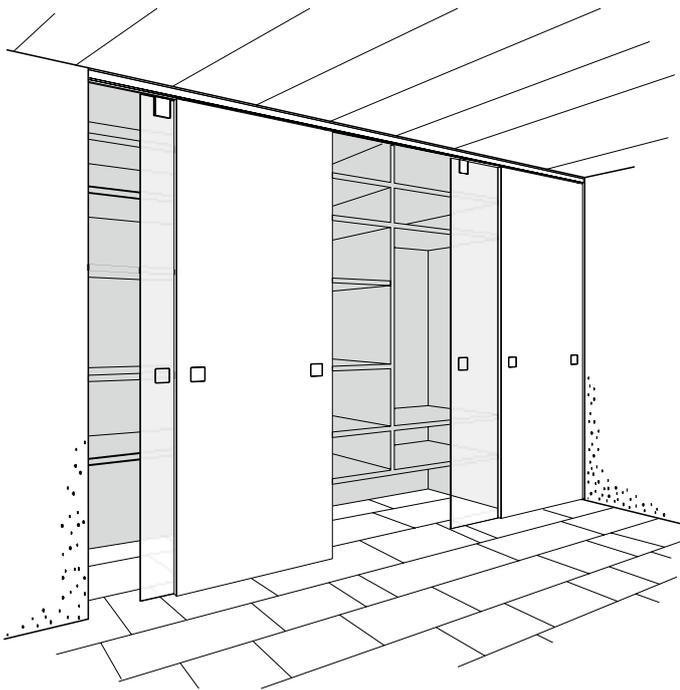
A fit-anywhere, frameless sliding hardware system for wooden and glass sliding doors weighing up to 70 kg (154 lbs.). Ideal not only for walk-in closets, but also for room-height and flexible partitions in residential and office settings. The possibility of combining glass and wood sliding doors gives 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^{3/8}")
- Minimum door width 600 mm (1'11^{5/8}")
- Door thickness, wood 30–40 mm (1^{3/16}" – 1^{13/32}")
- Door thickness, glass:
 - ESG (fully tempered monolithic glass): 8/10 mm (^{5/16}" / ^{13/32}")
 - VSG (fully tempered laminated glass): 8,7–10,7 mm (^{11/32}" – ^{7/16}")
- 2–8 mm (^{3/32}" – ^{5/16}") minimum clearance between the running track and the top edge of the sliding door
- Glass doors use popular Hawa Junior GP suspensions



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

Partial sets Hawa Ordena 70 P

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

Partial sets comprising

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

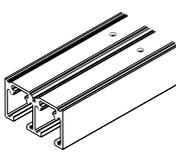
Door stop sets

		number of doors	code
Door stop set for systems with point guidance, incl. single use drilling jig, (ESG ¹ /VSG ²)	2 - 3		20588
	4 - 5		20589
	6 - 7		20590

Sets comprising

		20588	20589	20590	code
	Track stop, plastic, with adjustable retainer	4	8	12	10602
	Single use drilling jig, (ESG ¹ /VSG ²)	1	1	1	20400
	Screw-on rubber door stop	2	2	2	10629
	Suspension 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

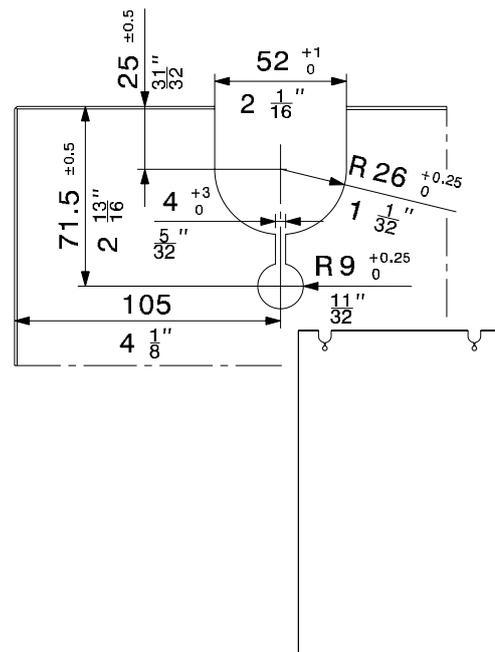
Running tracks

Caution: Hole positions vary		mm/inch	code
	Dual running track, alu plain anodized, predrilled	2500 (8'2 $\frac{7}{16}$ "	19213
		3500 (11'5 $\frac{13}{16}$ "	19214
		6000 (19'8 $\frac{7}{32}$ "	19215
		cut to size	19127
	Single running track, alu plain anodized, predrilled	2500 (8'2 $\frac{7}{16}$ "	19370
		3500 (11'5 $\frac{13}{16}$ "	19371
		6000 (19'8 $\frac{7}{32}$ "	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 mm ($\frac{5}{16}$ / $\frac{13}{32}$ "), thickness tolerance $\pm 0,3$ mm
- Glass thickness sliding door VSG (fully tempered laminated glass): 2x4 $\pm 0,2$ mm \rightarrow film thickness 0,38/0,76/1,52 mm
2x5 $\pm 0,2$ mm \rightarrow film thickness 0,38/0,76 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

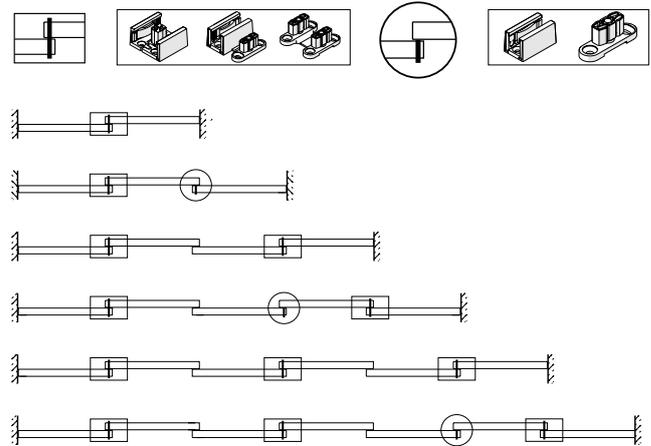


Floor guides

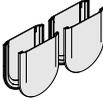
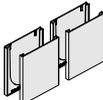
		code
	Dual floor guide, rattle-proof, glass/glass, inc. self-adhesive sliders for satinised glass, dull chromium finish	19138
	Dual floor guide, rattle-proof, glass/wood, inc. self-adhesive sliders for satinised glass, dull chromium finish	19139
	Dual floor guide, screw mounting, rattle proof, wood/wood	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 ($\frac{3}{8}$ " x $\frac{1}{2}$ " x 4'3 $\frac{3}{16}$ "), groove mounted, set of 10 pieces	14540

Screw-in floor guide variants

Single and dual point guidance.



Cover plates

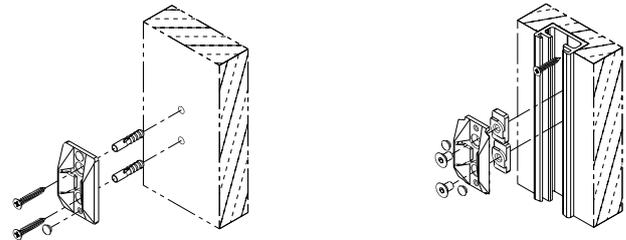
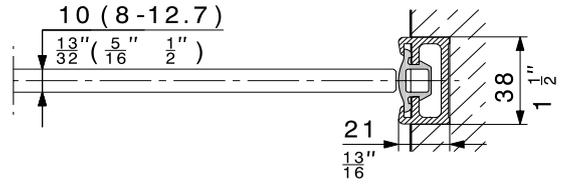
		code	
	Rounded cover plate, plastic, dull chromium finish	1 piece	16049
		4-pieces set	16042
	Rounded cover plate, plastic, polished chromium finish	1 piece	17161
		4-pieces set	17160
	Rounded cover plate, plastic, brass polished	1 piece	16050
		4-pieces set	16043
Rounded cover plate, plastic, stainless-steel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

Wall connection profile

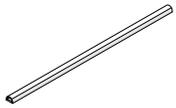
Caution: Minor differences in colour are possible			mm/inch	code
	Wall profile, alu, undrilled	plain anodized	2500 (8'2 ⁷ / ₁₆ ")	17020
			3500 (11'5 ¹³ / ₁₆ ")	17021
		stainless-steel effect, brushed	2500 (8'2 ⁷ / ₁₆ ")	20119
			3500 (11'5 ¹³ / ₁₆ ")	20120
	Seal profile, black, for wall profile	roll of 2500 (8'2 ⁷ / ₁₆ ")		16452
		roll of 3500 (11'5 ¹³ / ₁₆ ")		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.

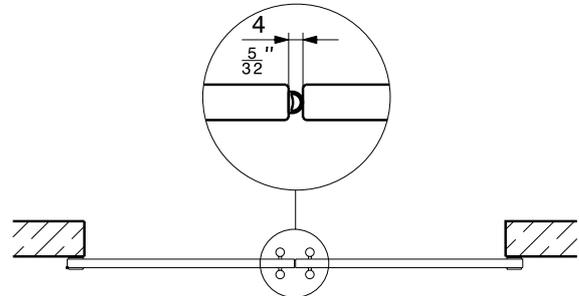


Rubber profile for glass edge protection

		roll of	code
	Rubber profile self-adhesive, for 8/10 mm (⁵ / ₁₆ "/ ¹³ / ₃₂ ") glass thickness, black, glass distance 4 mm (⁵ / ₃₂ ")	5 m (16'4 ²⁷ / ₃₂ ")	19442
		10 m (32'9 ²³ / ₃₂ ")	19443
		50 m (164' ¹ / ₂ ")	19444
	Rubber profile self-adhesive, for 8/10 mm (⁵ / ₁₆ "/ ¹³ / ₃₂ ") glass thickness, translucent, glass distance 4 mm (⁵ / ₃₂ ")	5 m (16'4 ²⁷ / ₃₂ ")	19445
		10 m (32'9 ²³ / ₃₂ ")	19446
		50 m (164' ¹ / ₂ ")	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)

Full room-height with frameless guides.

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

Description

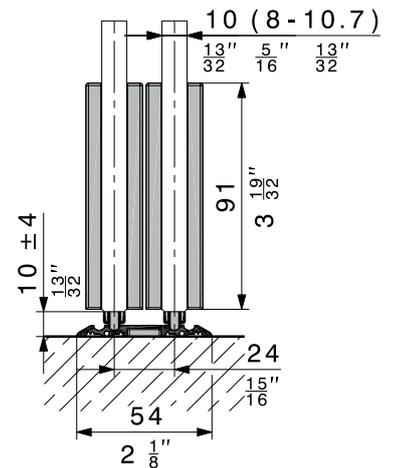
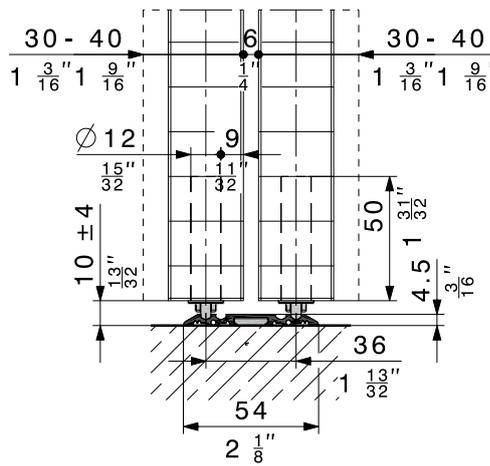
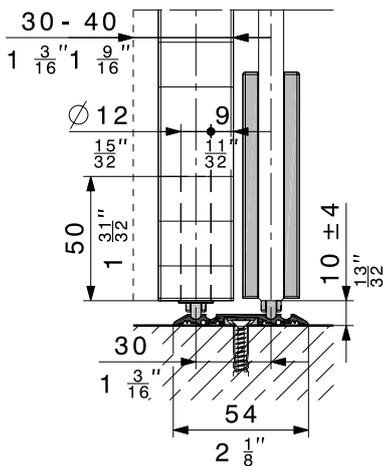
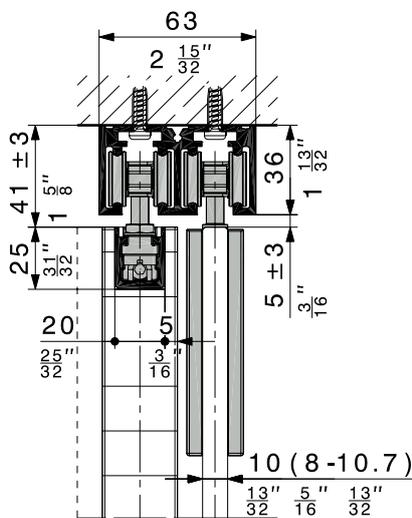
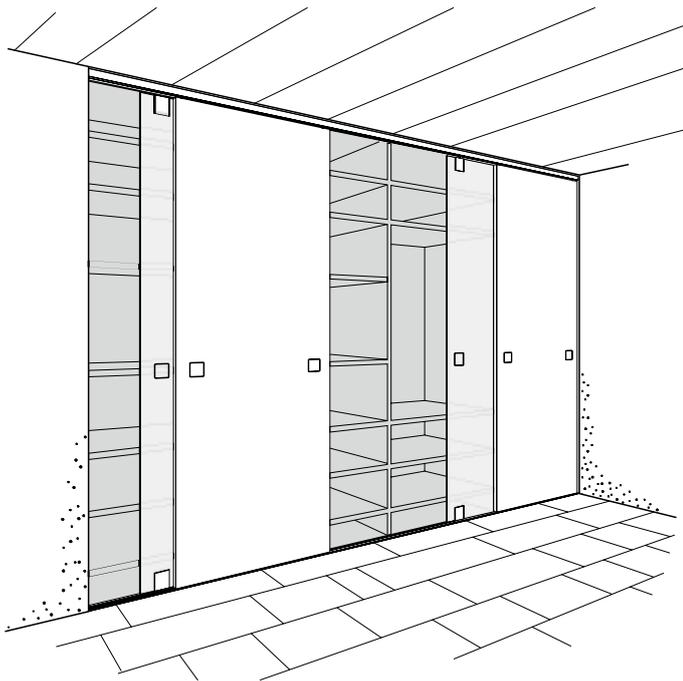
A fit-anywhere, frameless sliding hardware system for wooden and/or glass sliding doors weighing up to 70 kg (154lbs.). Ideal not only for walk-in closets, but also for room-height and flexible partitions in residential and office settings. The possibility of combining glass and wood sliding doors gives 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 ($\frac{13}{32}$ ") 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 ($8'6\frac{3}{8}"$)
- Minimum door width 600 mm ($1'11\frac{5}{8}"$)
- Door thickness, wood 30–40 mm ($1\frac{3}{16}"$ – $1\frac{19}{32}"$)
- 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 ($\frac{11}{32}"$ – $\frac{7}{16}"$)
- 2–8 mm ($\frac{3}{32}"$ – $\frac{5}{16}"$) minimum clearance between the running track and the top edge of the sliding doors



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

Partial sets Hawa Ordena 70 F

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

Partial sets comprising

		19120	20586	code
	Four-wheeled trolley, M7, plastic-tyred wheels	2	2	10374
	Top fixed suspension with plate M7	2	-	19276
	Cover cap for suspension profile, plastic anthracite-grey RAL 7016	2	-	21520
	Patch suspension with glass holder insert (ESG ¹ /VSG ²)	-	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

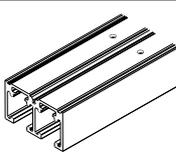
Door stop sets

	number of doors	code
Door stop set for system with bottom guide channel, incl. single use drilling jig, (ESG ¹ /VSG ²)	2	20588
Door stop set for system with bottom guide channel, incl. centre stop and single use drilling jig, (ESG ¹ /VSG ²)	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
	Centre stop, complete	-	1	2	3	4	19277
	Single use drilling jig, (ESG ¹ /VSG ²)	1	1	1	1	1	20400
	Screw-on rubber door stop	2	2	2	2	2	10629
	Suspension 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

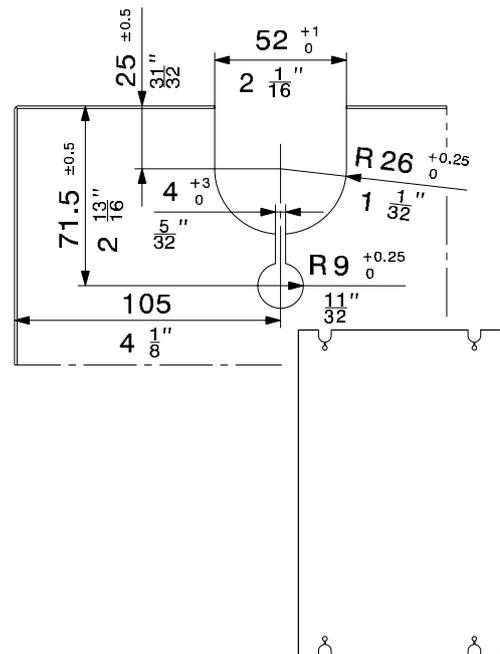
Running tracks

Caution: Hole positions vary		mm/inch	code
	Dual running track, alu plain anodized, predrilled	2500 (8'2 $\frac{1}{16}$ ")	19213
		3500 (11'5 $\frac{13}{16}$ ")	19214
		6000 (19'8 $\frac{7}{32}$ ")	19215
		cut to size	19127
	Single running track, alu plain anodized, predrilled	2500 (8'2 $\frac{1}{16}$ ")	19370
		3500 (11'5 $\frac{13}{16}$ ")	19371
		6000 (19'8 $\frac{7}{32}$ ")	19372
		cut to size	19373

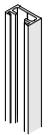
Glass cutouts for sliding door

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 mm ($\frac{5}{16}$ " / $\frac{13}{32}$ "), thickness tolerance $\pm 0,3$ mm
- Glass thickness sliding door VSG (fully tempered laminated glass): 2x4 $\pm 0,2$ mm \rightarrow film thickness 0,38/0,76/1,52 mm
2x5 $\pm 0,2$ mm \rightarrow film thickness 0,38/0,76 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

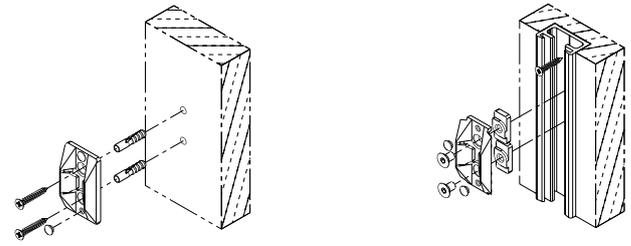
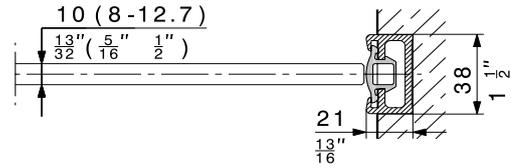


Wall connection profile

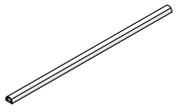
Caution: Minor differences in colour are possible		mm/inch	code
	Wall profile, alu, undrilled	plain anodized	2500 (8'2 ⁷ / ₁₆ ") 17020
		stainless-steel effect, brushed	3500 (11'5 ¹³ / ₁₆ ") 17021
	Seal profile, black, for wall profile	roll of 2500 (8'2 ⁷ / ₁₆ ")	16452
		roll of 3500 (11'5 ¹³ / ₁₆ ")	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.

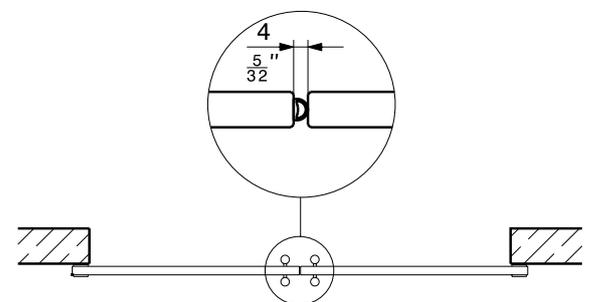


Rubber profile for glass edge protection

	roll of	code
	Rubber profile self-adhesive, for 8/10 mm (⁵ / ₁₆ "/ ¹³ / ₃₂ ") glass thickness, black, glass distance 4 mm (⁵ / ₃₂ ")	5 m (16'4 ²⁷ / ₃₂ ") 19442
		10 m (32'9 ²⁷ / ₃₂ ") 19443
		50 m (164' ¹ / ₂ ") 19444
	Rubber profile self-adhesive, for 8/10 mm (⁵ / ₁₆ "/ ¹³ / ₃₂ ") glass thickness, translucent, glass distance 4 mm (⁵ / ₃₂ ")	5 m (16'4 ²⁷ / ₃₂ ") 19445
		10 m (32'9 ²⁷ / ₃₂ ") 19446
		50 m (164' ¹ / ₂ ") 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

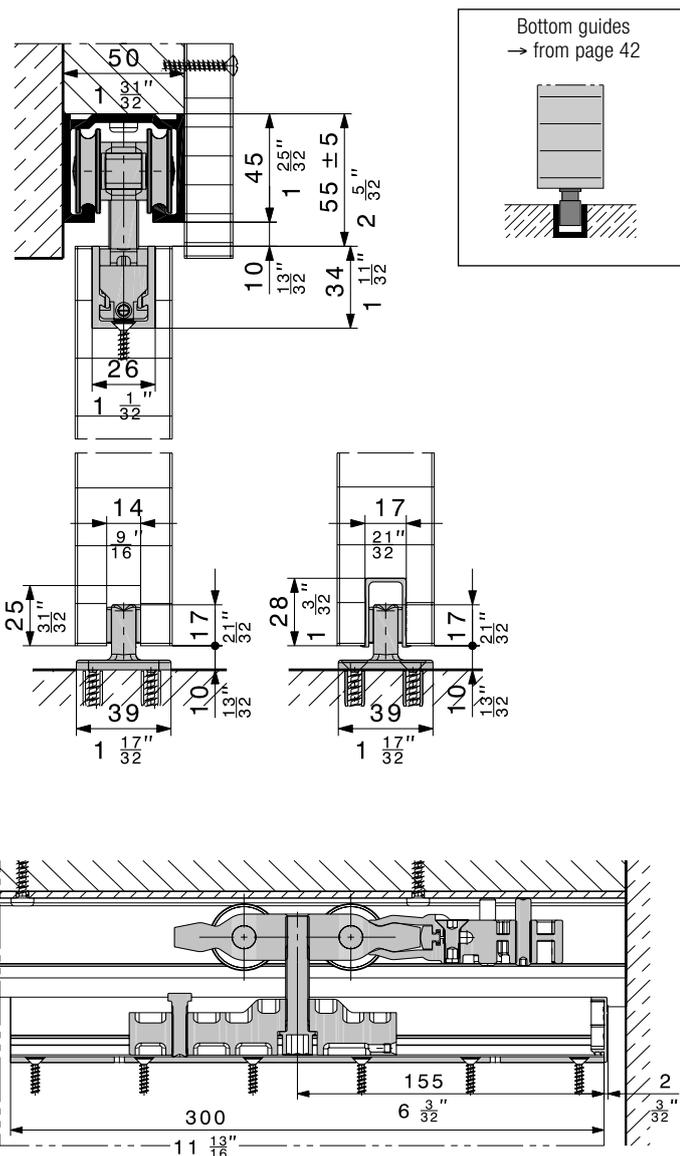
Accessories: → pages 42–47

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)



**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 strength.

Features of the Hawa Silenta 150 B

- Low headroom applications 55 mm (2 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 (3/32")

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
	2	15705
	2	14934
	2	20907
	1	15709
	1	13114
	1	14711
	1	14861

Running tracks

Caution: Hole positions vary		mm/inch	code
	Running track, alu plain anodized, predrilled	2500 mm (8'2 7/8")	13057
		3500 mm (11'5 13/16")	13058
		6000 mm (19'8 5/32")	10096
		cut to size	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	
	Hawa Assembly wedge for sliding doors running in the ceiling, set for 1 sliding door	15770	
	Guide profile plastic, black, 3000 mm (9'10 1/8"), groove mounted, set of 5 pieces	14963	
	Bottom door stop with centering assembly	dull chromium finish	20773
		stainless steel effect	21473

Further accessories: → pages 42 – 47

Suspension profiles

	mm/inch	code
	6500 (21'3 33/32")	10346
	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 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 ± 5 mm ($\frac{7}{32}$ ")
- Suitable for use with curved doors
- Minimum radius 500 mm ($1'7 \frac{11}{16}$ ")

Set for sliding doors, without running track

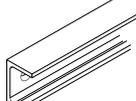
	panel	code
Hawa Media 70	1	11666

For two-panel sliding doors please order two sets for single doors.

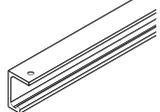
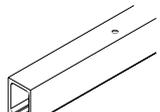
Set comprising

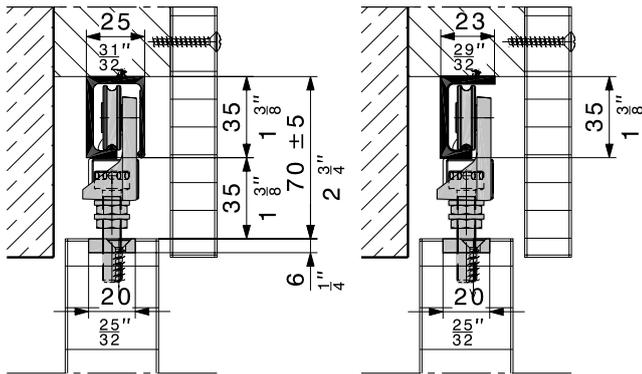
	pieces	code
	2	10370
	2	10430
	1	10588
	1	10584
	1	14427

Running tracks for side fitting

Caution: Hole positions vary	mm/inch	code
	6000 mm (19'8 $\frac{1}{2}$ ")	10123
	cut to size	10126

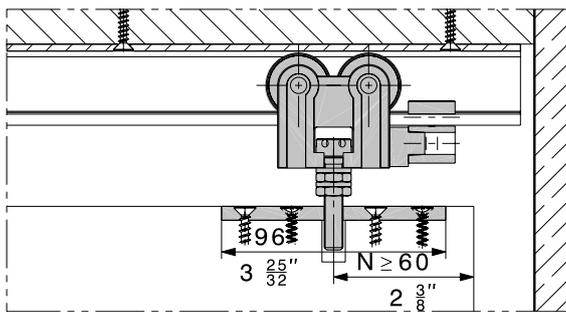
Running tracks for ceiling fitting

Caution: Hole positions vary	mm/inch	code
	2500 mm (8'2 $\frac{2}{3}$ ")	12234
	3500 mm (11'5 $\frac{15}{16}$ ")	12235
	6100 mm (19'8 $\frac{5}{8}$ ")	10127
	cut to size	10130
	2500 mm (8'2 $\frac{2}{3}$ ")	12236
	3500 mm (11'5 $\frac{15}{16}$ ")	12237
	6000 mm (19'8 $\frac{1}{2}$ ")	10144
	cut to size	10146



Straight sliding doors

Curved sliding doors



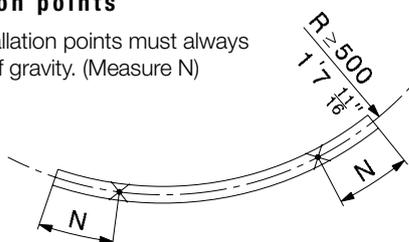
Accessories

Caution: Minor differences in colour are possible		code
	Bottom door stop with centering assembly	dull chromium finish 20773
		stainless steel effect 21473

Further accessories: → pages 42 – 47

Installation points

The trolley installation points must always be in the axis of gravity. (Measure N)



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

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

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.

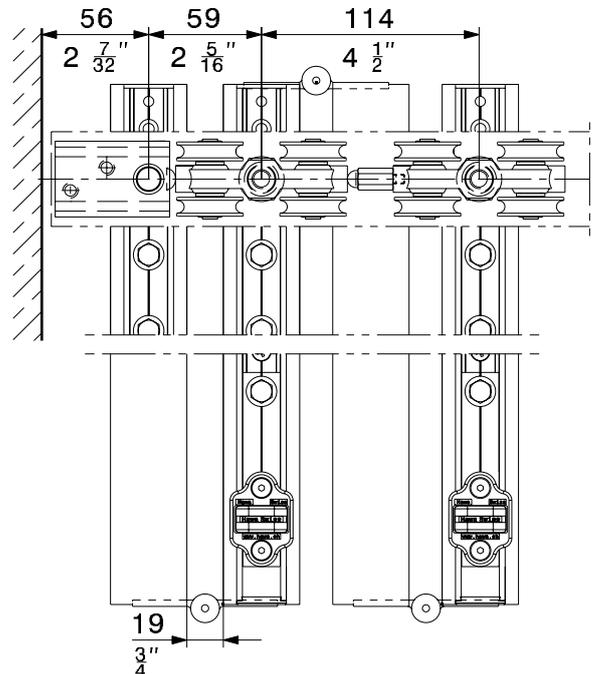
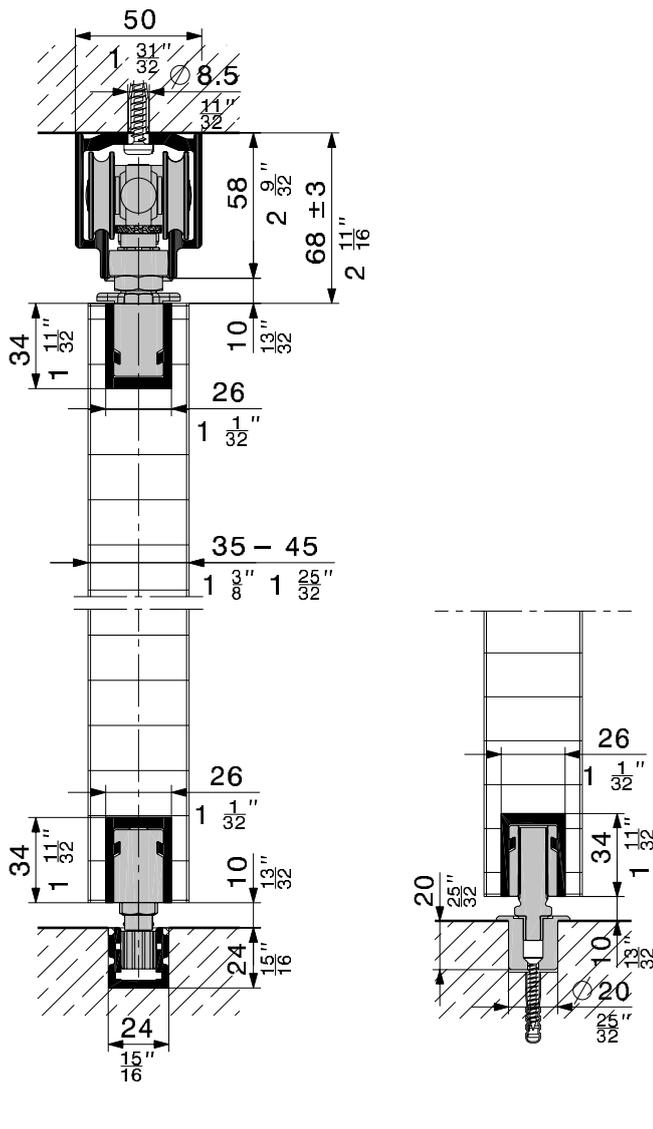
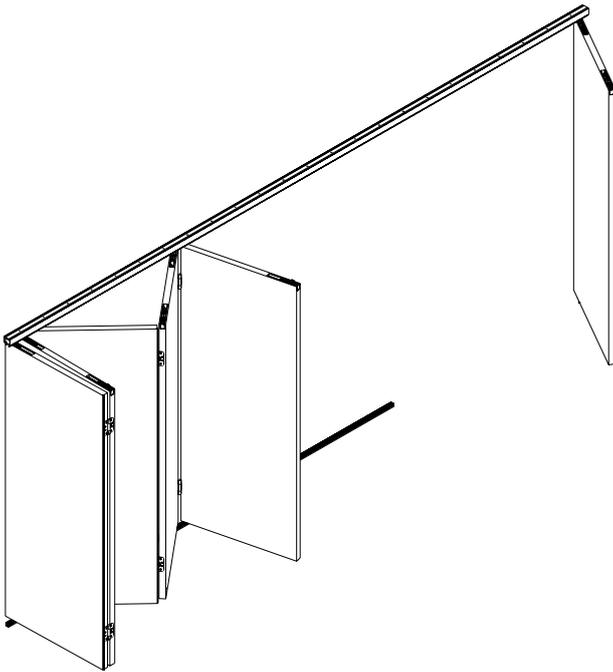
With Hawa Variofold 80 H, panels are guided in a bottom guide channel. Installations with two panels on either side and up to 3,6 m (11'9³/₄") wide are also possible without a bottom guide channel. A bar bolt lock operated at handle height keeps out unwanted visitors. Alternatively, an unobtrusive deadbolt 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 suitable 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 (2'11⁷/₁₆")
- Panel thickness 35–45 mm (1³/₈"–1²⁵/₁₆")
[Panel thickness 46–57 mm (1¹³/₁₆"–2¹/₄") 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 ± 3 mm (±¹/₈")
- Light and quiet running
- Panel stack stores compactly



Partial sets without hinges, running track and bottom guide channel

Sets can be individually assembled		code
	Basic set with pivot bearing and guide	19532
	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
	Pivot door set for installation with bottom guide channel	19618
	Pivot door set for installation without bottom guide channel	19619
Hawa Variofold 80 H requires 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
	Four-wheeled trolley, M10, plastic-tyred wheels with suspension plate and spacer	-	-	1	-	-	-	16685
	Suspension profile alu, 208 mm (8 ¹ / ₈) 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 mm (3/4), including driver	-	1	-	-	-	1	19515
	Guide, rattle proof, plastic, for bottom guide channel 24 x 24 mm (1 ¹ / ₈ x 1 ¹ / ₈)	1	-	1	-	-	-	19518
	Cover cap for top fixed suspension, plastic anthracit-grey RAL 7016	5	4	3	1	3	3	20907
	Vertical adjustment key	1	1	-	-	-	-	10789
	Suspension assembly locking wrench	1	1	-	-	-	-	14861
	Fork spanner SW 13 mm (1/2)	1	1	-	-	-	-	19128

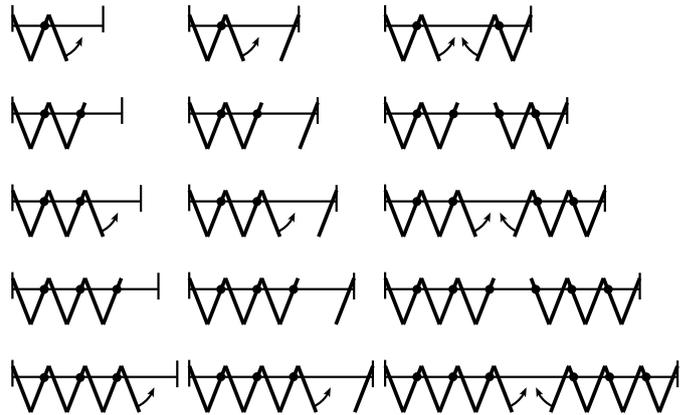
Installation examples

One-sided installations filling an aperture up to 6000 mm (19'8 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

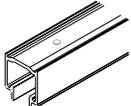


Installations with a bottom guide channel



These examples illustrate just some of the possibilities.

Running tracks

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

Bottom guide channel

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

Hinge

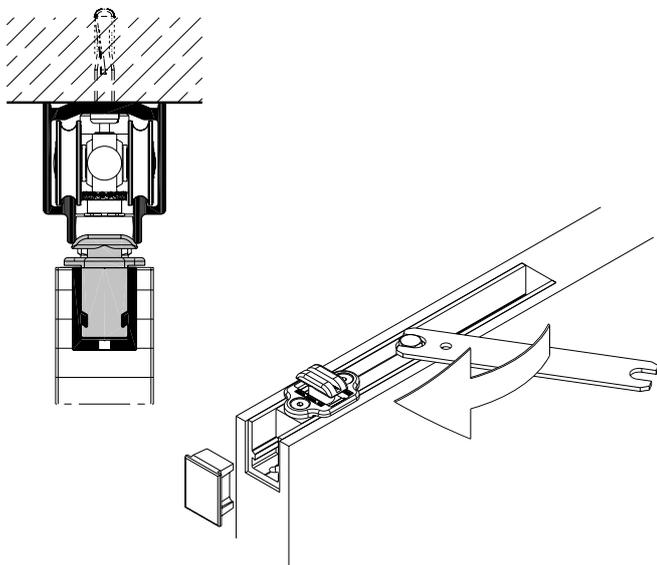
		code
	Stainless steel hinge with heavy load bearings WNR 1.4401/AISI 316, incl. fixing screws	23271
Quantity of hinges per panel joint:		
Panel height ≤ 2500 mm (8'2 ⁷ / ₁₆ ") = 2 pcs.		
Panel height ≤ 3500 mm (11'5 ¹³ / ₁₆ ") = 3 pcs.		

Hollow seal

		code
	Hollow seal, rubber black	19657
		Roll of 10 m (32'9 ²⁹ / ₃₂ ")

Folding-/pivot door catch

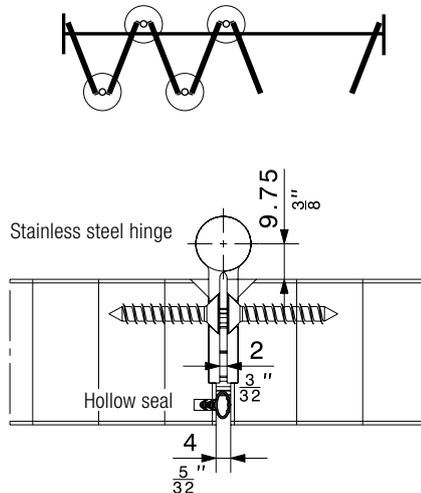
Every other panel has a folding-/pivot door catch (20426). Panels can thus be held flush in position without operating a locking mechanism.



Hinge

High loadbearing capacity means that panels up to 2500 mm (8'2⁷/₁₆") tall require just two hinges.

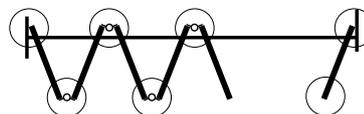
Hinge positions



Hollow seal

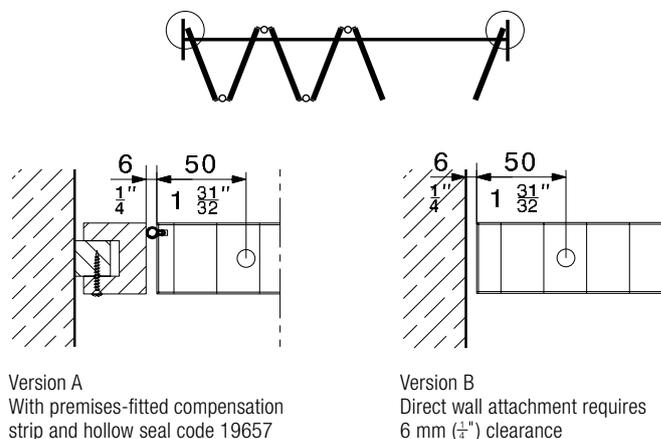
Hollow cross-section seal strips eliminate the problem of light penetrating through gaps between panels.

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 (1/4") clearance.

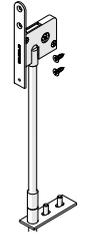


Version A
With premises-fitted compensation strip and hollow seal code 19657

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

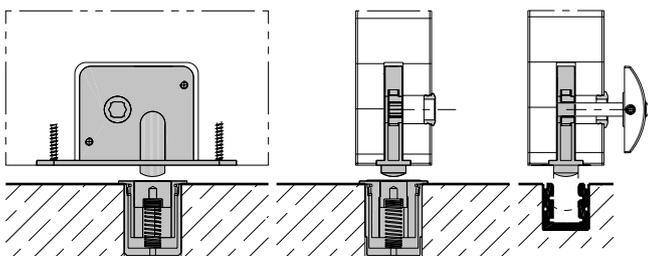
Subject to modification. Metric specifications are exact. Inches are approximate.

Locks

	code
	Deadbolt lock, galv. steel deadbolt 13 mm (17/32") 10726
	Bar bolt lock, square/hexagonal socket, backset 42,5 mm (1 11/16") Assembly dimensions: → page 45 19592
	Thumbturn, chromium finish, for panel thickness 35 to 40 mm (1 3/8" to 1 15/16") 13789
	Thumbturn, chromium finish, for panel thickness 41 to 57 mm (1 5/8" to 2 1/4") 19806
	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

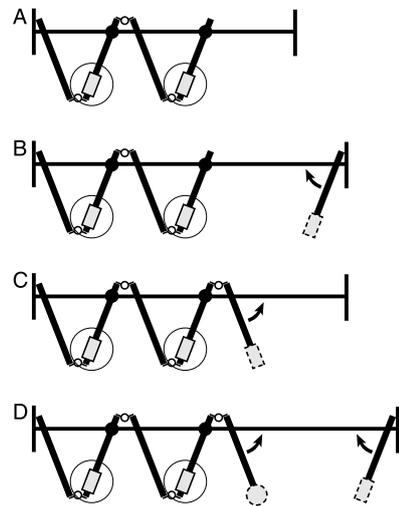
Planning/installation

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)

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.

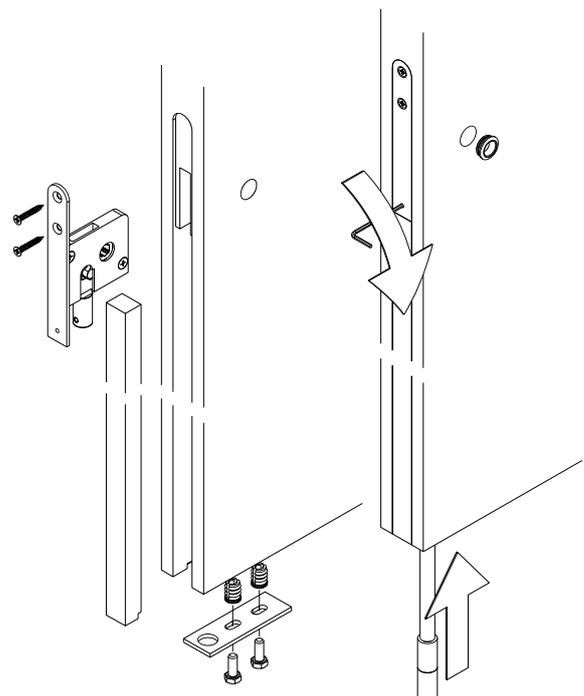
Lock positions



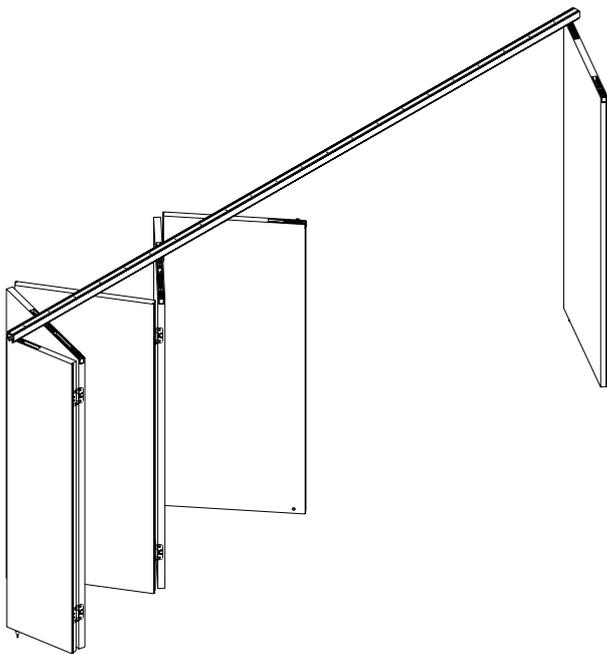
-  Deadbolt lock or bar bolt lock
-  Door edge bar not supplied by Hawa AG
-  Mortice lock not supplied by Hawa AG
-  Pivot door

Bar bolt lock

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



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



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.

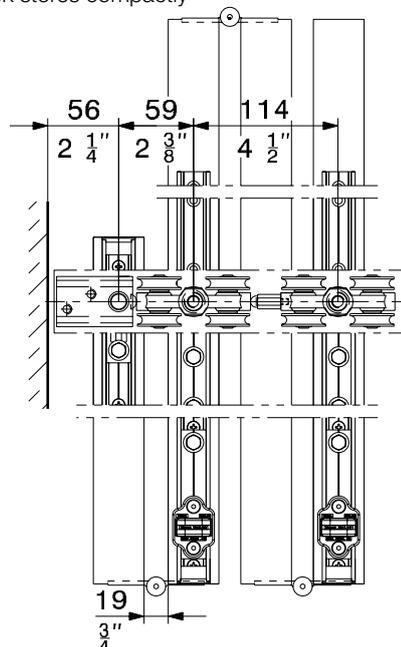
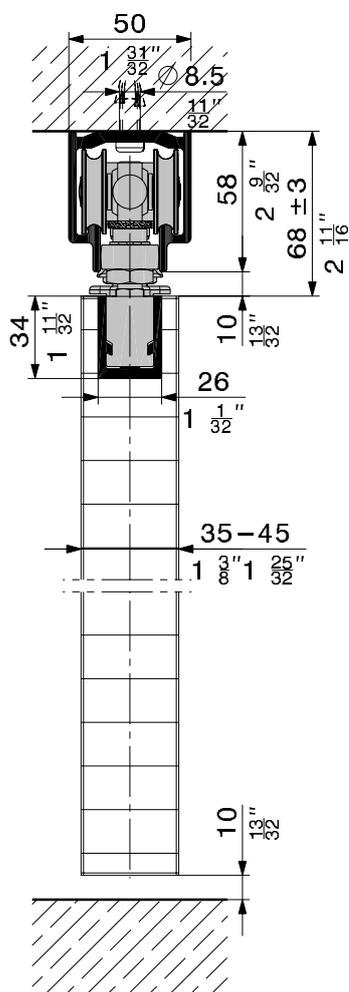
Mid-point panel suspension means that Hawa Centerfold 80 H installations do not require a bottom guide channel. A bar bolt lock operated at handle height keeps out unwanted visitors. Alternatively, an unobtrusive deadbolt fitted to the bottom edge of the panel provides almost invisible locking. Both 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. 1½-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 (1'7 11/16")
- Maximum panel width 900 mm (2'11 7/16")
- Panel thickness 35–45 mm (1 3/8"–1 25/32")
[Panel thickness 46–57 mm (1 13/16"–2 1/4") 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 ± 3 mm (1/8")
- Light and quiet running
- Panel stack stores compactly



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

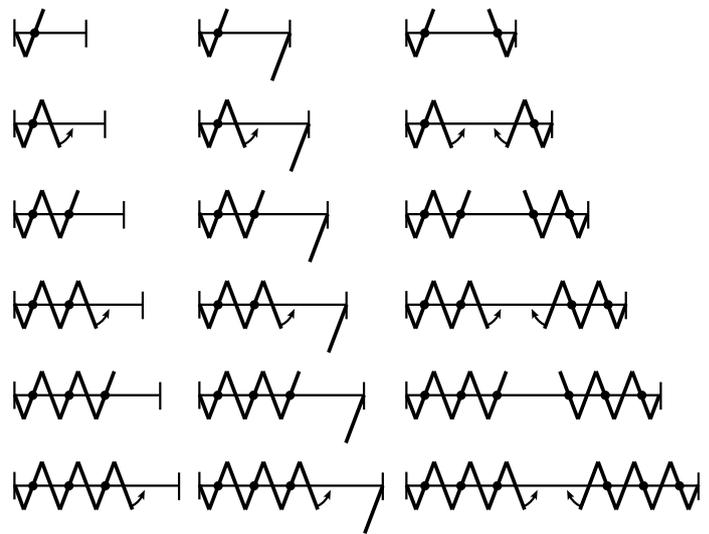
Partial sets without hinges and running track

Sets can be individually assembled		code
	Basic set with pivot bearing without guide	19535
	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.

Installation examples

One-sided installations filling an aperture up to 6000 mm (19'8 ⁷/₃₂" width are possible using the 1 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.



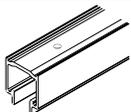
These examples illustrate just some of the possibilities.

Partial sets comprising

		19535	19536	19620	19619	code
	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	-	-	-	16482
	Four-wheeled trolley, M10, plastic-tyred wheels with suspension plate and spacer	-	1	-	-	16685
	Suspension profile alu, 208 mm (8 ¹¹ / ₁₆ " plain anodized, predrilled	2	-	1	3	10987
	Suspension profile alu, 550 mm (1'9 ¹¹ / ₃₂ " plain anodized, predrilled	1	1	-	-	19524
	Thrust bearing sleeve, D = 20 mm (³ / ₄ "), including driver	1	-	-	1	19515
	Cover cap for top fixed suspension, plastic anthracit-grey RAL 7016	3	1	1	3	20907
	Vertical adjustment key	1	-	-	-	10789
	Suspension assembly locking wrench	1	-	-	-	14861
	Fork spanner SW 13 mm (¹ / ₂ ")	1	-	-	-	19128

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

Running tracks

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

Hinge

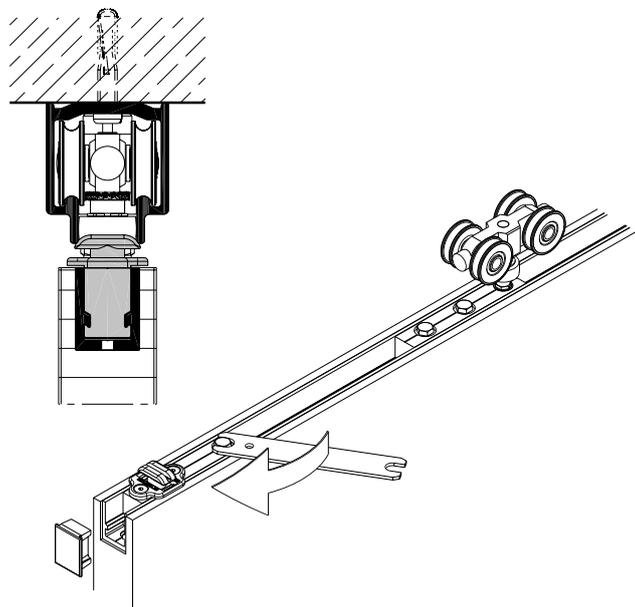
		code
	Stainless steel hinge with heavy load bearings WNR 1.4401/AISI 316, incl. fixing screws	23271
Quantity of hinges per panel joint: Panel height ≤ 2500 mm (8'2 ⁷ / ₁₆ ") = 2 pcs. Panel height ≤ 3500 mm (11'5 ³ / ₁₆ ") = 3 pcs.		

Hollow seal

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

Folding-/pivot door catch

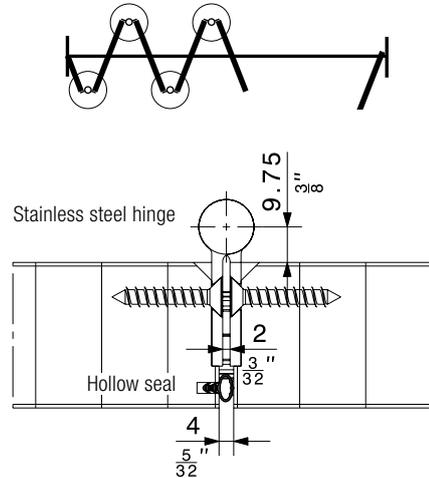
Every other panel has a Folding-/pivot door catch (20426). Panels can thus be held flush in position without operating a locking mechanism.



Hinge

High loadbearing capacity means that panels up to 2500 mm (8'2⁷/₁₆") tall require just two hinges.

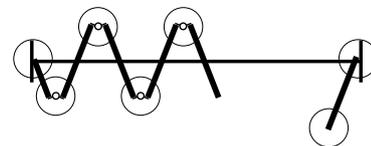
Hinge positions



Hollow seal

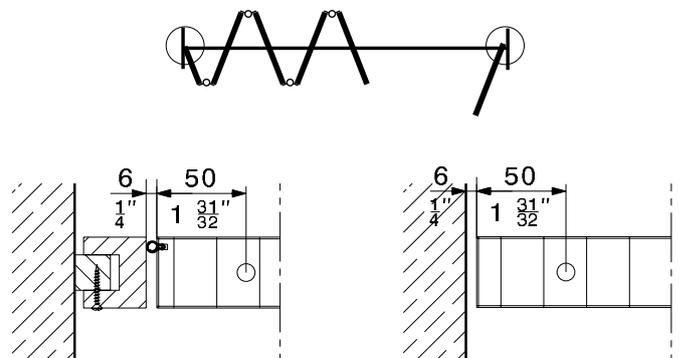
Hollow cross-section seal strips eliminate the problem of light penetrating through gaps between panels.

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 (1/4") clearance.

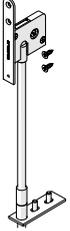


Version A
With premises-fitted compensation strip and hollow seal code 19657

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

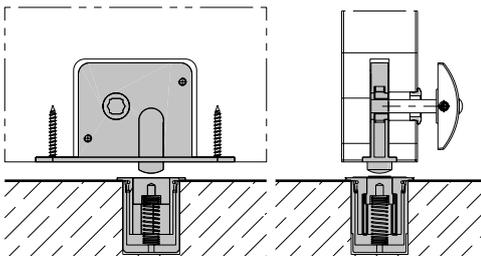
Subject to modification. Metric specifications are exact. Inches are approximate.

Locks

		code
	Deadbolt lock, galv. steel deadbolt 13 mm ($\frac{17}{16}$ ")	10726
	Bar bolt lock, square/hexagonal socket, backset 42.5 mm ($1\frac{11}{16}$ ") Assembly dimensions: → page 45	19592
	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
	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

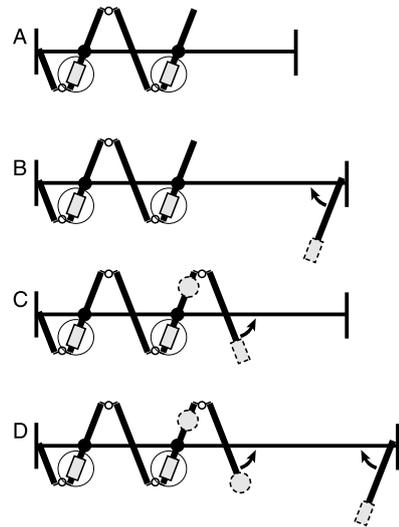
Planning/installation

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

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.

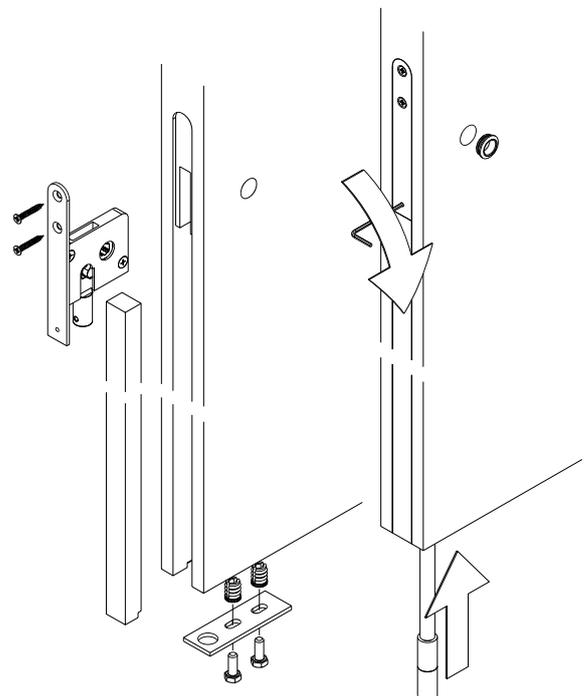
Lock positions



-  Deadbolt lock or bar bolt lock
-  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.



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

Sets without running track and bottom guide channel

		code
	Set for 3 panels	12804
	Set for 4 panels	12805
	Set for 5 panels	12806
	Set for 6 panels	12807
	Set for 7 panels	12808

Set comprising

		12804	12805	12806	12807	12808	code
	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 (9/16")	1	1	2	2	3	12945
	Ball bearing hinge, steel dull nickel finish, with fixing screws	9	12	15	18	21	10652
	Deadbolt lock, 13 mm (1/2") galvanized steel	1	1	2	2	3	10726
	Slip-fit rose, brass dull nickel finish	1	1	2	2	3	13858
	Key for deadbolt lock	1	1	1	1	1	10723

Dual running tracks

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

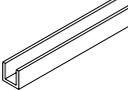
Accessories

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

Component for fire-retarding doors

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

Bottom guide channels

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

Hawa Bar bolt lock

		code
	Bar bolt lock Backset 42,5 mm (1 11/16") Socket square/hexagonal, 7/8 mm Total lift of push rod: 18 mm (3/4") Operation height: 960 mm (3'11 13/16") complete The bar bolt lock can be operated from the door surface with a square/hexagonal key.	19592
	Thumbturn, chromium finish, for panel thickness 35 to 40 mm (1 3/8" to 1 5/8")	13789
	Thumbturn, chromium finish, for panel thickness 41 to 57 mm (1 5/8" to 2 1/4")	19806
	Key for deadbolt lock	10723
	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

Quantity of hinges required

panel height	pieces
up to 2500 mm (8'2 7/16")	3
2501–3200 mm (8'2 33/32"–10'6")	4
3201–4000 mm (10'6 1/32"–13'1 1/2")	5

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

Planning/installation

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

Sliding walls without efforts.

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

Description

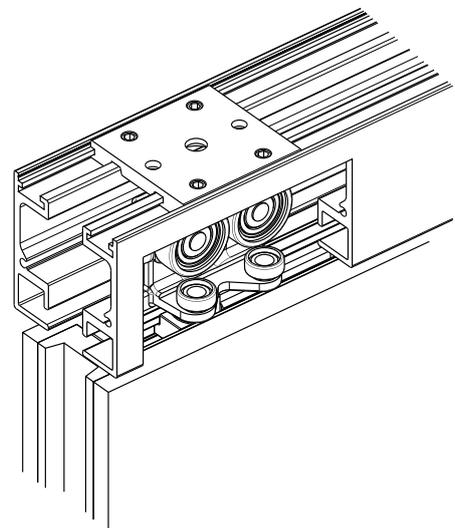
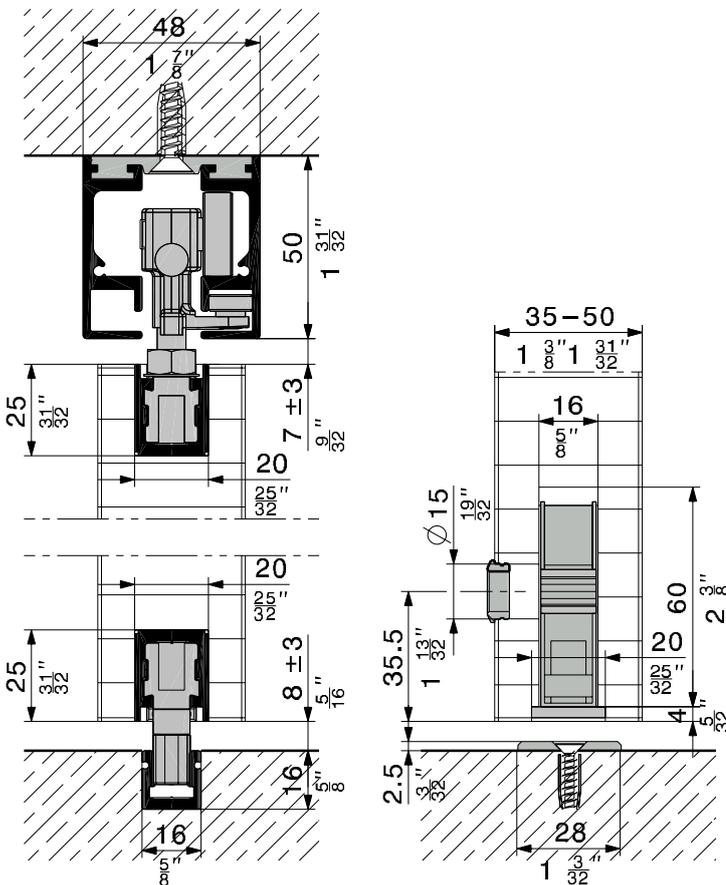
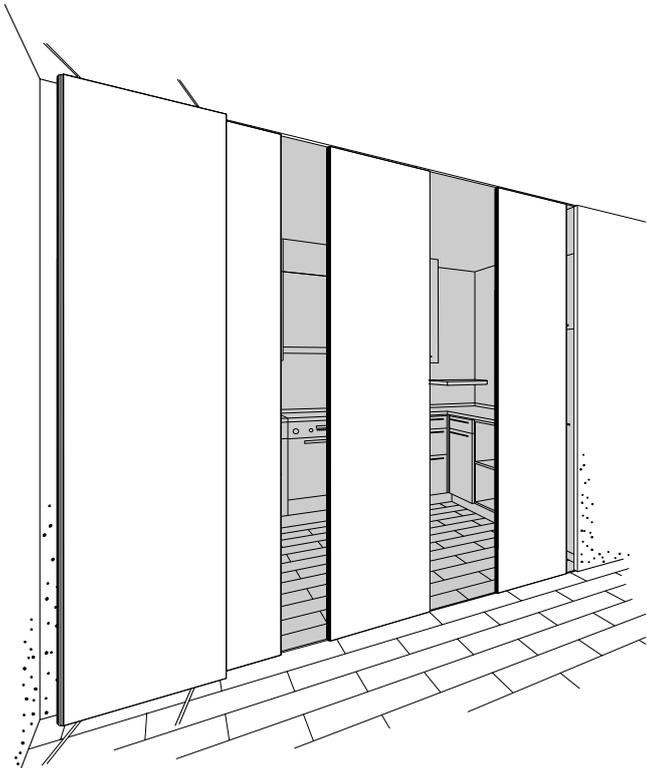
The first system on the market purpose-designed for lightweight wooden partition walls up to 60 kg (132 lbs.) per panel combines high quality with an economical price. It offers a particularly attractive architectural solution because the closed partition is perfectly flush, and requires only a small 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 ($1'9\frac{21}{32}$ ")
- 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 ($8'6\frac{3}{8}$ ")
- Adjustable vertically ± 3 mm ($\frac{1}{8}$ ")
- 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.

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

Sets	Type	Pieces	code
Pivot door	B	1	18781
Sliding door	D	?X	18650
Stacking area		1	18758

System type 2

Sets	Type	Pieces	code
Pivot door	C	1	18782
Sliding door	G	?X	18752
Stacking area		1	18759

System type 3

Sets	Cylindre	Type	Pieces	code
Sliding door	4/6kt	F	1	18762
Sliding door	17 mm	H	1	18754
Sliding door		D	?X	18650
Stacking area			1	18758

System type 4

Sets	Cylindre	Type	Pieces	code
Sliding door	4/6kt	G	1	18752
Sliding door	17 mm	I	1	18911
Sliding door		G	?X	18752
Stacking area			1	18759

System type 5

Sets	Type	Pieces	code
Pivot door	A	1	18805
Sliding door	D	?X	18650
Stacking area		1	18756

System type 6

Sets	Type	Pieces	code
Pivot door	A	1	18805
Sliding door	G	?X	18752
Stacking area		1	18757

System type 7

Sets	Cylindre	Type	Pieces	code
Sliding door	4/6kt	F	1	18762
Sliding door	17 mm	H	1	18754
Sliding door		D	?X	18650
Stacking area			1	18756

System type 8

Sets	Cylindre	Type	Pieces	code
Sliding door	4/6kt	G	1	18752
Sliding door	17 mm	I	1	18911
Sliding door		G	?X	18752
Stacking area			1	18757

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

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:

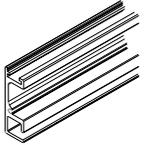
Stacking area parallel

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

Stacking area 90°

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

Running tracks

		mm/inch	code
	Single running track, alu plain anodized	2500 (8'2 ⁷ / ₁₆ ")	17795
		3500 (11'5 ¹³ / ₁₆ ")	17796
		6000 (19'8 ³ / ₁₆ ")	16891
		cut to size	17529
	Top fixing plate for 2 x single running track, alu, set of	1 piece	17128
		6 pieces	17806
		8 pieces	17807
	Cover cap for 2 x single running track, alu plain anodized		19354

Bottom guide channels

Caution: Hole positions vary		mm/inch	code	
	Bottom guide channel, alu plain anodized, undrilled, 16x16 mm (⁵ / ₈ " x ⁵ / ₈ ")	6000 (19'8 ³ / ₁₆ ")	18200	
		Bottom guide channel, alu plain anodized, predrilled, 16x16x3 mm (⁵ / ₈ " x ⁵ / ₈ " x ¹ / ₈ ")	3500 (11'5 ¹³ / ₁₆ ")	18864
			6000 (19'8 ³ / ₁₆ ")	18216
			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 → 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

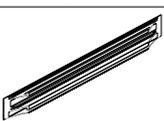
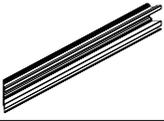
Planning/installation

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

Pivot door sets

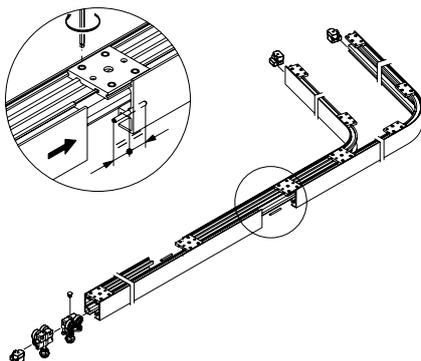
	type	code
Pivot door set for system with parallel stacking area, with /without bottom guide channel	A	18805
Pivot door set for system with stacking area at right angle, with bottom guide channel	B	18781
Pivot door set for system with stacking area at right angle, without bottom guide channel	C	18782

Set comprising

	Door types	18805	18781	18782	code
		A	B	C	
 Suspension profile, 250 mm (9 ²⁷ / ₃₂ "), alu plain anodized, 20 x 25 mm (3/8" x 31/32")		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 x 16 mm (5/8" x 5/8") bottom guide channel		-	1	-	18730
 Bottom pivot with thrust bearing sleeve D = 20 mm (3/4")		1	-	1	18785
 Matching segment 300 mm (11 ¹³ / ₁₆ "), outside, for running track, concealed interior, stacking parallel		1	-	-	18804
 Matching segment 300 mm (11 ¹³ / ₁₆ "), inside, for running track, concealed interior, stacking parallel		1	-	-	19144
 Top fixing plate for 2 x single running track, alu		1	-	-	17128
 Fork spanner SW 13 mm (1/2")		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	E	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	H	18754
Sliding door set for system without bottom guide channel, incl. bar bolt lock profile cylinder	I	18911

Set comprising

	Door types	18650	18808	18762	18752	18754	18911	code
		D	E	F	G	H	I	
 Suspension plate, incl. M8 hanger bolt, with integrated assembly wedge		2	2	2	2	2	2	18651
 Suspension profile, 250 mm (9 ²⁷ / ₃₂ "), alu plain anodized, 20 x 25 mm (3/8" x 31/32")		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, plastic anthracite-grey RAL 7016		3	2	2	2	2	2	21520
 Floor guide rattle proof, plastic, 10 mm (3/8"), with suspension plate		1	-	-	-	-	-	18649
 Bar bolt lock 9 mm (3/8"), with square/hexagon socket and slip-fit rose		-	-	-	1	-	-	18837
 Bar bolt lock 9 mm (3/8"), profile cylinder		-	-	-	-	-	1	18836
 Bar bolt lock 9 mm (3/8"), profile cylinder, with guide pin		-	-	-	-	1	-	18750
 Bar bolt lock 9 mm (3/8"), square/hexagon socket, with guide pin		-	-	1	-	-	-	18833
 Strike plate for 9 mm (3/8") deadbolt, chromium-plated steel		-	-	-	1	-	1	18755
 Key for bar bolt lock 18833 and 18837		-	-	1	1	-	-	10723

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

Stacking area sets

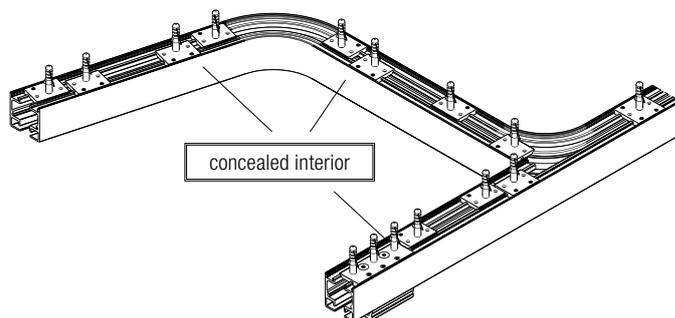
	code
Stacking area set, with bottom guide channel, stacking parallel	18756
Stacking area set, without bottom guide channel, stacking parallel	18757
Stacking area set, with bottom guide channel, stacking at right angle	18758
Stacking area set, without bottom guide channel, stacking at right angle	18759

Set comprising

		18756	18757	18758	18759	code
	Single running track curved segment, 75° inside, length of leg 580 mm (1'10 ²⁷ / ₃₂ "	1	1	–	–	17289
	Single running track curved segment, 75° outside, length of leg 580 mm (1'10 ²⁷ / ₃₂ "	1	1	1	1	17290
	Single running track curved segment, 90° inside, length of leg 70 mm (2 ³ / ₄ "	–	–	1	1	16925
	Running track end stops, set	1	1	1	1	19165
	Connecting bolts, set of 6 pieces	1	1	1	1	17221
	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 x 16 mm (5/8" x 5/8")	2	–	2	–	18652
	End-piece for running track, 150 mm (5 ⁷ / ₈ "	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 / ₁₆ "	1	–	–	–	18748
	Hex key 4 mm (5/32"), length 230 mm (9 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.

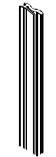

Profile set for concealed interior

	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

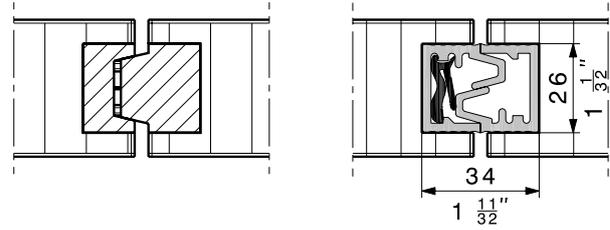
		19147	19148	code
	Single running track curved segment, 75° inside, length of leg 580 mm (1'10 ²⁷ / ₃₂ "	1	1	17289
	Single running track 550 mm (1'9 ³ / ₈ "), for concealed interior, stacking parallel	1	–	19145
	Single running track 700 mm (2'3 ⁹ / ₁₆ "), for concealed interior, stacking parallel and 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
	6000 mm (19'8 ⁷ / ₃₂ ")	14223
	cut to size	13528
	roll of 20 m (65'7 ¹³ / ₃₂ ")	15340
	cut to size	13571

Panel centring

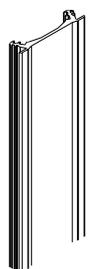
Door panels must be centred to ensure flush fitting.



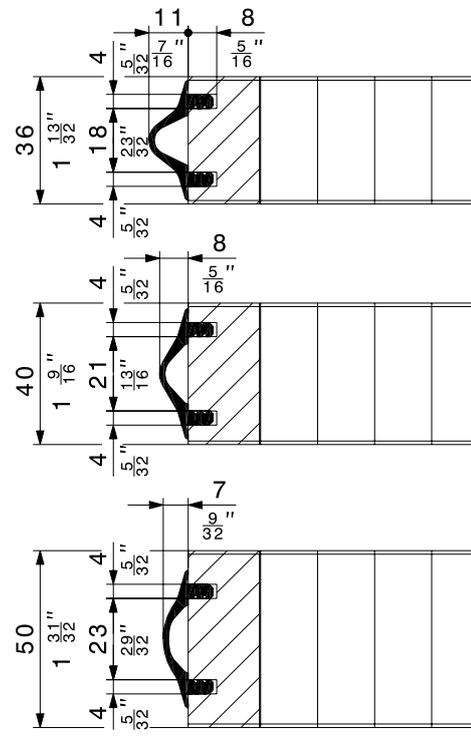
Version A
With customer-supplied wooden strips

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

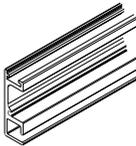
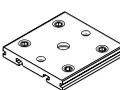
Hawa protective edge trims, rubber

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

Wall mounting



Running tracks

		code
	2500 mm (8'2 ⁷ / ₁₆ ")	17795
	3500 mm (11'5 ¹³ / ₁₆ ")	17796
	6000 mm (19'8 ²⁷ / ₃₂ ")	16891
	cut to size	17529
	1 piece	17128
	6 pieces	17806
	8 pieces	17807

Bottom guide channels

Caution: Hole positions vary		mm/inch	code
	Bottom guide channel, alu plain anodized, undrilled, 16x16 mm (⁵ / ₈ " x ⁵ / ₈ ")	6000 (19'8 ⁷ / ₃₂ ")	18200
		3500 (11'5 ¹³ / ₁₆ ")	18864
	Bottom guide channel, alu plain anodized, predrilled, 16x16x3 mm (⁵ / ₈ " x ⁵ / ₈ " x ¹ / ₄ ")	6000 (19'8 ⁷ / ₃₂ ")	18216
		cut to size	18477

Accessories

		code
	Sleeve closure including fitting screw	19149
	Thumbturn, chromium finish, for panel thickness 35 to 40 mm (1 ³ / ₈ " to 1 ¹³ / ₃₂ ")	13789
	Thumbturn, chromium finish, for panel thickness 41 to 57 mm (1 ⁵ / ₈ " to 2 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

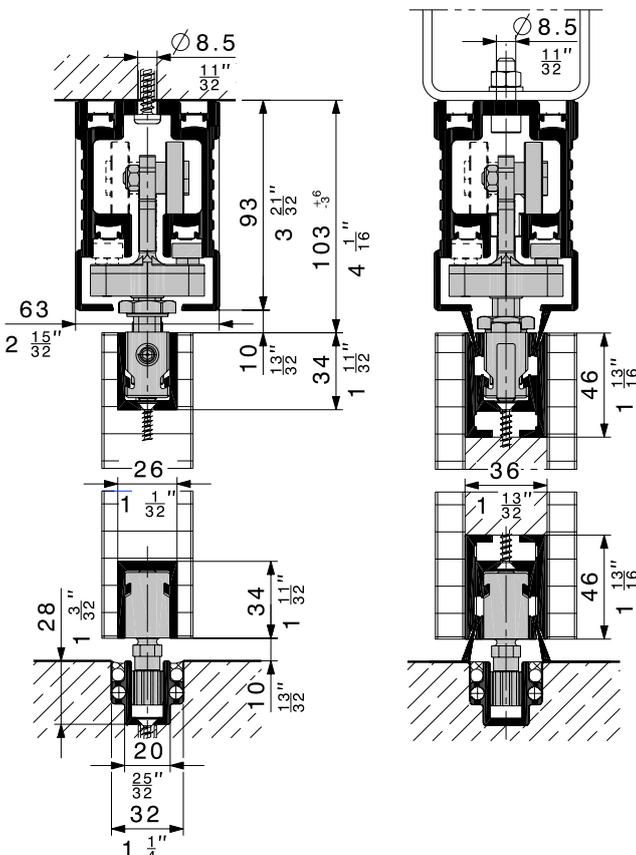
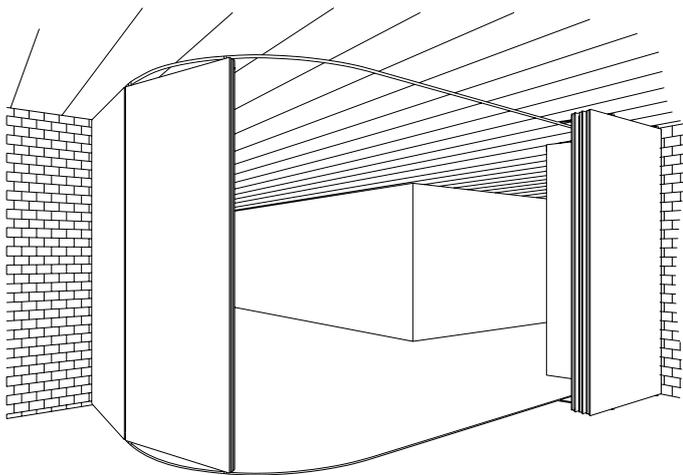
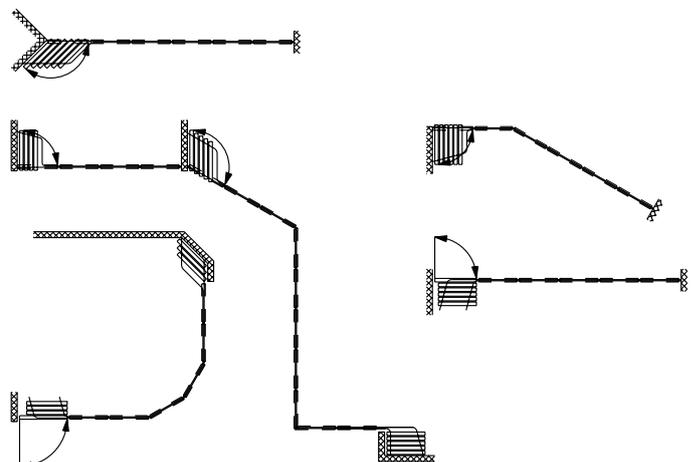
This hardware system is suitable for use wherever high quality and quiet operation are called for, e.g. in hotels, restaurants, banks, open-plan offices and exclusive interior designs.

Features of the Hawa Variotec 150 H

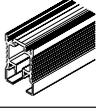
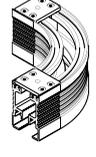
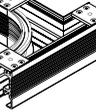
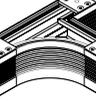
- Modular system
- Trolley with two-point guide
- Progressively adjustable height +6/-3 mm (+¹⁵/₆₄" / -¹/₈")
- Extremely light and smooth cornering
- Minimum axis radius 4000 mm (13'1 ¹/₂")
- Maximum sliding door weight 150 kg (330 lbs.)
- Secure locking
- Small space requirement in stacking area

Layout examples

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



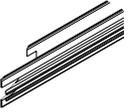
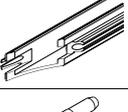
Running tracks

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

Running tracks – accessories

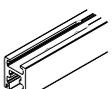
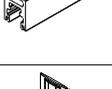
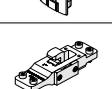
Caution: Hole positions vary		code
	Cover plate for dual running track, complete	15439
	Top-fixing plate for single running track	15414
	Top-fixing plate for 2 x single running track	15383
	Coupler to running track, galvanized steel	17232
	Matching segment dual running track, 45° – 90°, left	16173
	Matching 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, alu plain anodized, predrilled	6000 mm (19'8 ⁷ / ₃₂ ")	13688
		cut to size	13690
	Curved bottom guide channel, alu plain anodized, predrilled	15°	13644
		30°	13647
		45°	13650
		60°	13653
		75°	13656
		90°	13659
		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 (¹ / ₄ " x 1 ¹⁶ / ₃₂ "), stainless steel		13759

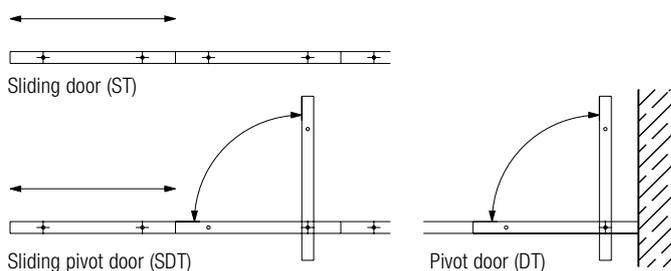
Subject to modification. Metric specifications are exact. Inches are approximate.

Sliding pivot door – components

		code
	Two-wheeled trolley, M14, with plastic-tired wheels and suspension plate (sliding pivot doors up to 90 kg [198 lbs.] and 3000 mm [9'10 1/8"] 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 pivot door	15429
	Contact plate for sliding pivot door	14265
	Suspension profile, cut to size, alu unanodized, predrilled	14232
	Suspension profile, cut to size, alu unanodized, predrilled, for sliding pivot door, with cutout for strike plate	14260
	Suspension profile, cut to size, alu unanodized, undrilled, for sliding pivot door, with cutout for strike plate	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 cap, plastic black	14211
	Lock complete, for sliding pivot door	left 14213 right 14214
	Pivot bearing, for sliding pivot door	14197
	Door stop, for sliding pivot door	14207
	Centering assembly for sliding pivot door	14264
	Deadbolt lock 13 mm (1/2"), galvanized steel, for sliding pivot door	14087
	Strike plate/pivot bearing, chromium-plated steel	14088
	Key for deadbolt lock, 10721, 10726, 13144	10723
	Slip-fit rose, brass dull nickel finish	13858
	Short connecting rod for door height up to ≤ 2500 mm (8'2 7/8")	14164
	Long connecting rod for door height up to ≥ 2500 mm (8'2 7/8")	14165

Door types

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



Pivot door – components

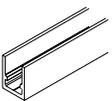
		code
	Servicing unit, dismantable, 100 mm (3 15/16")	15380
	Pivot bearing for swing door and pivot door (without running track)	16196
	Driver, vertically adjustable, for pivot door	16325
	Thrust bearing adjustable, Inox, for fitting into bottom guide channel	22299
	Thrust bearing sleeve, Ø 30 mm (1 1/8"), for pivot door	16326

Sliding door – components

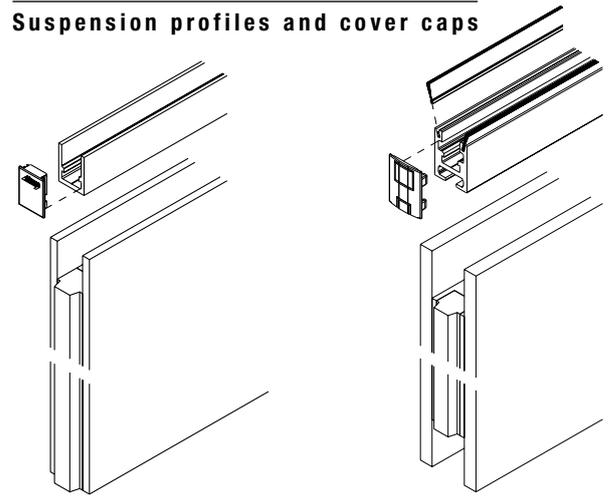
		code
	Single-wheeled trolley, M14, with plastic-tired ball bearing wheels and suspension plate (for maximum sliding door weights 100 kg (220 lbs.))	13778
	Two-wheeled trolley, M14, with plastic-tired ball bearing wheels and suspension plate (for maximum sliding door weights 150 kg (330 lbs.))	13818
	Guide plastic, 14 mm (9/16")	13781
	Floor locking lever	19820
	Floor locking lever 0–18°	19822

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

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 / ₃₂ "	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

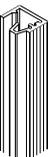
Suspension profiles and cover caps



Suspension profile: 10347/11004
Cover cap: 20907

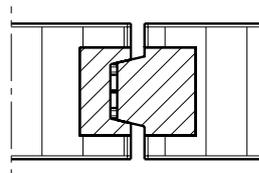
Suspension profile: 14232
Cover cap: 14211
Brush seal: 16797/13791

Seal profile / rubber profile

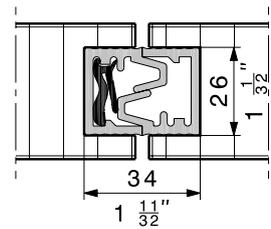
Deployment between the sliding doors			code
	Seal profile, alu plain anodized, predrilled	6000 mm (19'8 ⁵ / ₃₂ "	14223
		cut to size	13528
	Rubber profile, black	roll of 20 m (65'7 ¹³ / ₃₂ "	15340
		cut to size	13571

Panel centering

Door panels must be centred to ensure flush fitting.

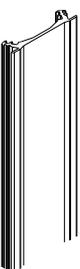


Version A
With customer-supplied wooden strips

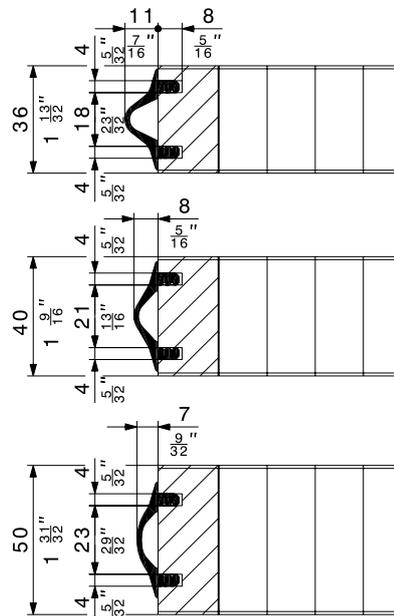


Version B
With Hawa seal profile, plain anodised aluminium (13528) including black rubber profile (13571)

Protective edge trims / brush seal

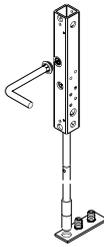
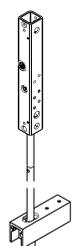
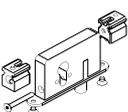
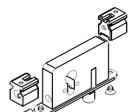
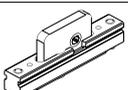
		roll of	code
	Hawa protective edge trim, black, similar RAL 7021	5 m (16'4 ²⁷ / ₃₂ "	10626
		10 m (32'9 ²³ / ₃₂ "	12325
	Hawa protective edge trim, brown, similar RAL 8024	5 m (16'4 ²⁷ / ₃₂ "	10627
		10 m (32'9 ²³ / ₃₂ "	12326
	Hawa protective edge trim, cream-white, similar RAL 9001	5 m (16'4 ²⁷ / ₃₂ "	10649
		10 m (32'9 ²³ / ₃₂ "	12327
Hawa protective edge trim, beige, similar RAL 1001	5 m (16'4 ²⁷ / ₃₂ "	15620	
	10 m (32'9 ²³ / ₃₂ "	15621	
	Brush seal 2,6/18 x 920 mm (1 ¹ / ₈ " / 23 ³ / ₃₂ " x 3'0 ⁷ / ₃₂ "		16797
	Brush seal 2,6/18 mm x 1200 mm (1 ¹ / ₈ " / 23 ³ / ₃₂ " x 3'11 ¹ / ₃₂ "		13791

Protective edge trims



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

Locks

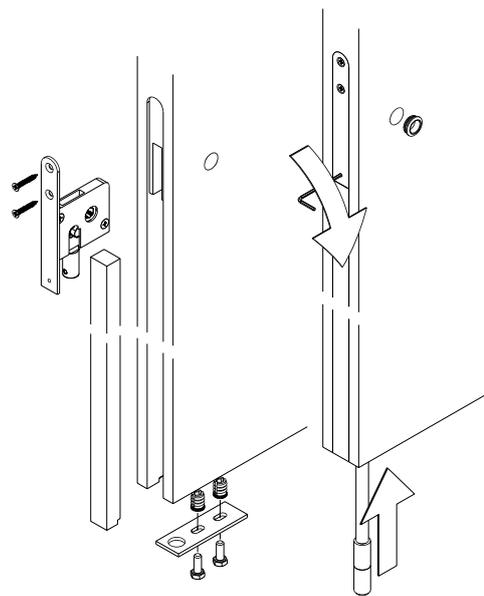
		code
	<p>Hawa Doorfix Bar bolt lock, galvanized steel Backset 18 mm ($\frac{3}{4}$") Socket square/hexagonal 7/8 mm Total lift of push rod: 46 mm ($1\frac{13}{16}$") Double turn, 1st level 28 mm ($1\frac{1}{8}$") 2nd level 18 mm ($\frac{3}{4}$") Operation height: 980 mm or 830 mm ($3'11\frac{13}{16}$" or $2'8\frac{11}{16}$"), complete Push rod can be shortened.</p> <p>The bar bolt lock can be operated from the door surface as well as from the front with a square/hexagonal key. Assembly dimensions → page 46</p>	15077
	<p>Hawa Doorfix Bar bolt lock, galvanized steel Backset 18 mm ($\frac{3}{4}$") Socket square/hexagonal 7/8 mm Total lift of push rod: 46 mm ($1\frac{13}{16}$") Double turn, 1st level 28 mm ($1\frac{1}{8}$") 2nd level 18 mm ($\frac{3}{4}$") Operation height: 980 mm or 830 mm ($3'11\frac{13}{16}$" or $2'8\frac{11}{16}$"), complete</p> <p>Assembly dimensions → page 46</p>	14188
	<p>Bar bolt lock Backset 42.5 mm ($1\frac{11}{16}$") Socket square/hexagonal, 7/8 mm Total lift of push rod: 18 mm ($\frac{3}{4}$") Operation height: 960 mm ($3'11\frac{13}{16}$") complete</p> <p>The bar bolt lock can be operated from the door surface with a square/hexagonal key.</p>	19592
	<p>Dead bolt lock, galvanized steel, 13 mm ($\frac{1}{2}$") Backset 29.5 mm ($\frac{15}{16}$") Socket square/hexagonal 7/8 mm</p>	10726
	<p>Hawa bar bolt lock, 13 mm ($\frac{1}{2}$") Galvanized steel Backset 34.5 mm ($1\frac{11}{32}$")</p>	profile cylinder 17 mm ($\frac{11}{16}$ ") 16695
		round cylinder 22 mm ($\frac{7}{8}$ ") 16696
		square/hexagon socket 7/8 mm 16697
	<p>Bar bolt lock, with guide pin</p>	profile cylinder 17 mm ($\frac{11}{16}$ ") 18478
		round cylinder 22 mm ($\frac{7}{8}$ ") 18479
		square/hexagon socket 7/8 mm 18388
	<p>Bar bolt lock with retention pin</p>	profile cylinder 17 mm ($\frac{11}{16}$ ") 16760
		round cylinder 22 mm ($\frac{7}{8}$ ") 16761
		square/hexagon 16762
	<p>Bar bolt lock with guide pin and fixing parts</p>	profile cylinder 17 mm ($\frac{11}{16}$ ") 18484
		round cylinder 22 mm ($\frac{7}{8}$ ") 18485
		square/hexagon 18486
	<p>Pivot bearing or deadbolt lock 13 mm ($\frac{1}{2}$"), galvanized steel, for sliding pivot door</p>	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 $1\frac{13}{16}$ ")	13789
	Thumbturn, chromium finish, for panel thickness 41 to 57 mm ($1\frac{5}{8}$ " to $2\frac{1}{4}$ ")	19806
	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 ($1\frac{3}{8}$ ")	13787
	Rosette for floor-mounted sleeve 13787	17326

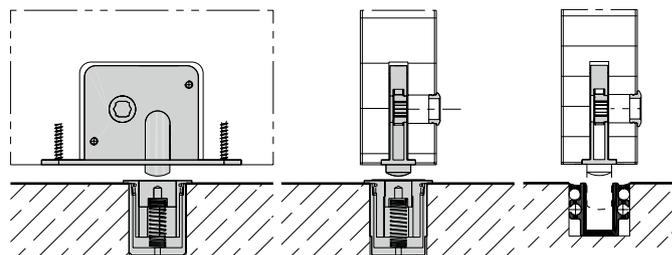
Example 1: Locking at handle height

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.



Locking with floor-mounted sleeve code 13787

Locking with bottom guide channel

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

Tools

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

Services

	code
Cutout, bar bolt lock for 17 mm ($\frac{11}{16}$), 22 mm ($\frac{7}{8}$), 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

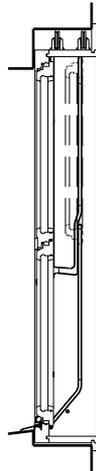
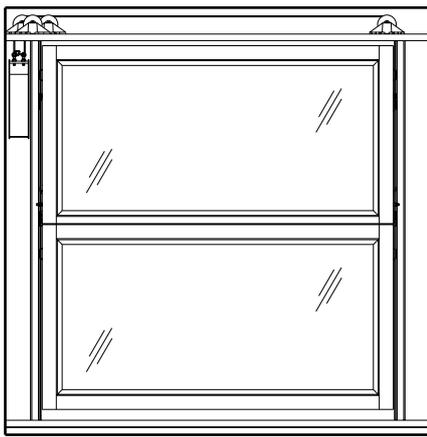
Order specifications

- 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 of 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 device.

The cable length of 8 m (26'2 ⁶¹/₆₄") is designed for the following dimensions:

Window height up to 900 mm (2'11 ⁷/₁₆"),
 maximum window width 3200 mm (10'6") or
 window height up to 1200 mm (3'11 ¹/₄"),
 maximum window width 2000 mm (6'6 ³/₄").

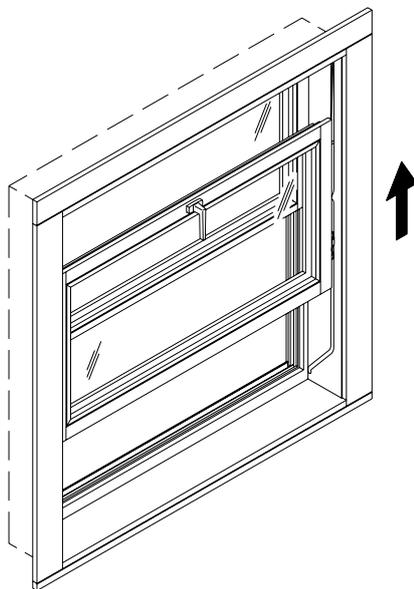
For larger panels, the cable must be ordered separately.
 (→ calculation for the cable length)

Features of the Hawa Vertical 150

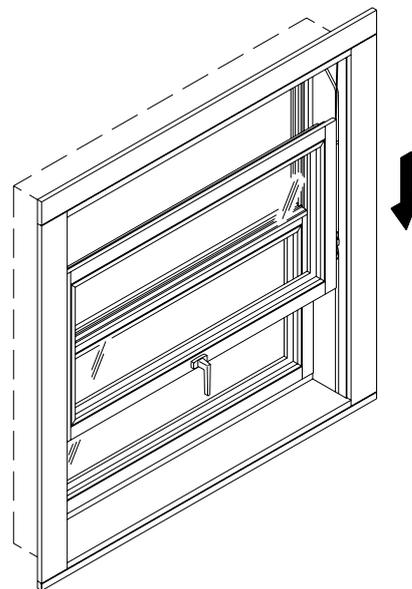
- One sliding panel
- White, black or brown plastic guide profiles
- Smooth sliding properties
- Maintenance-free
- Mortising of guide channel with all-purpose mortising template
- Standard window and frame rebates

Ventilation

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



Hawa Vertical 150/3



Hawa Vertical 150/5

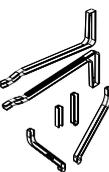
Set

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

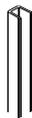
Set comprising

		pieces	code	
	Cable retainer, complete	2	20914	
	Edge fixed guide bracket	2	20913	
	Safety pin	2	20912	
	Pulley block, alu	3	10527	
	Plastic wheel with ball bearings, Ø 70 mm (2 $\frac{3}{4}$ ")	3	10764	
	Cable 4 mm ($\frac{5}{16}$ "), unit 8 m (26'2 $\frac{11}{16}$ ")	1	10575	
	Self-adhesive rubber spacer	brown	2	10650
		white	2	10651
	Set of eye bolt and cable clamp for counterweight	1	10797	
	Set of screws for particle board	1	20911	
	Track deadbolt lock, steel galvanized, deadbolt 8 mm ($\frac{5}{16}$ ")	2	20899	
	Set of 2 pieces press fit roses, brass dull nickel finish	1	13926	
	Panel bracket with wheel	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	
	Middle part of guide channel, 600 mm (1'11 $\frac{5}{8}$ ") plastic	brown	10566
		black	17140
		white	10580
	Cable 4 mm ($\frac{5}{16}$ ") 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 mm (1'11 $\frac{5}{8}$ ") brown, 17140/600 mm (1'11 $\frac{5}{8}$ ") black, or 10580/600 mm (1'11 $\frac{5}{8}$ "), white.

Calculation for the cable length

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

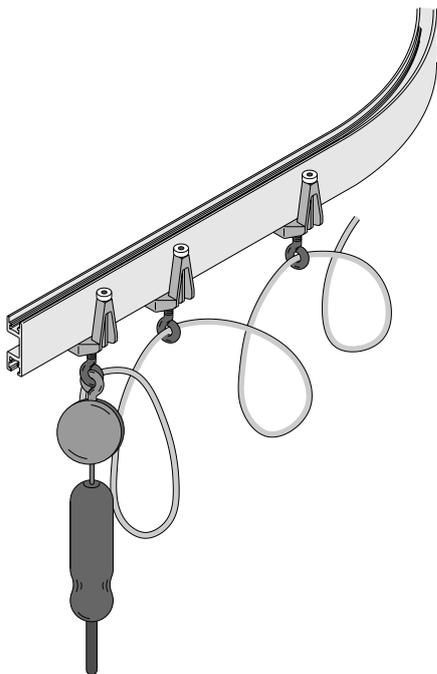
Order specifications

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

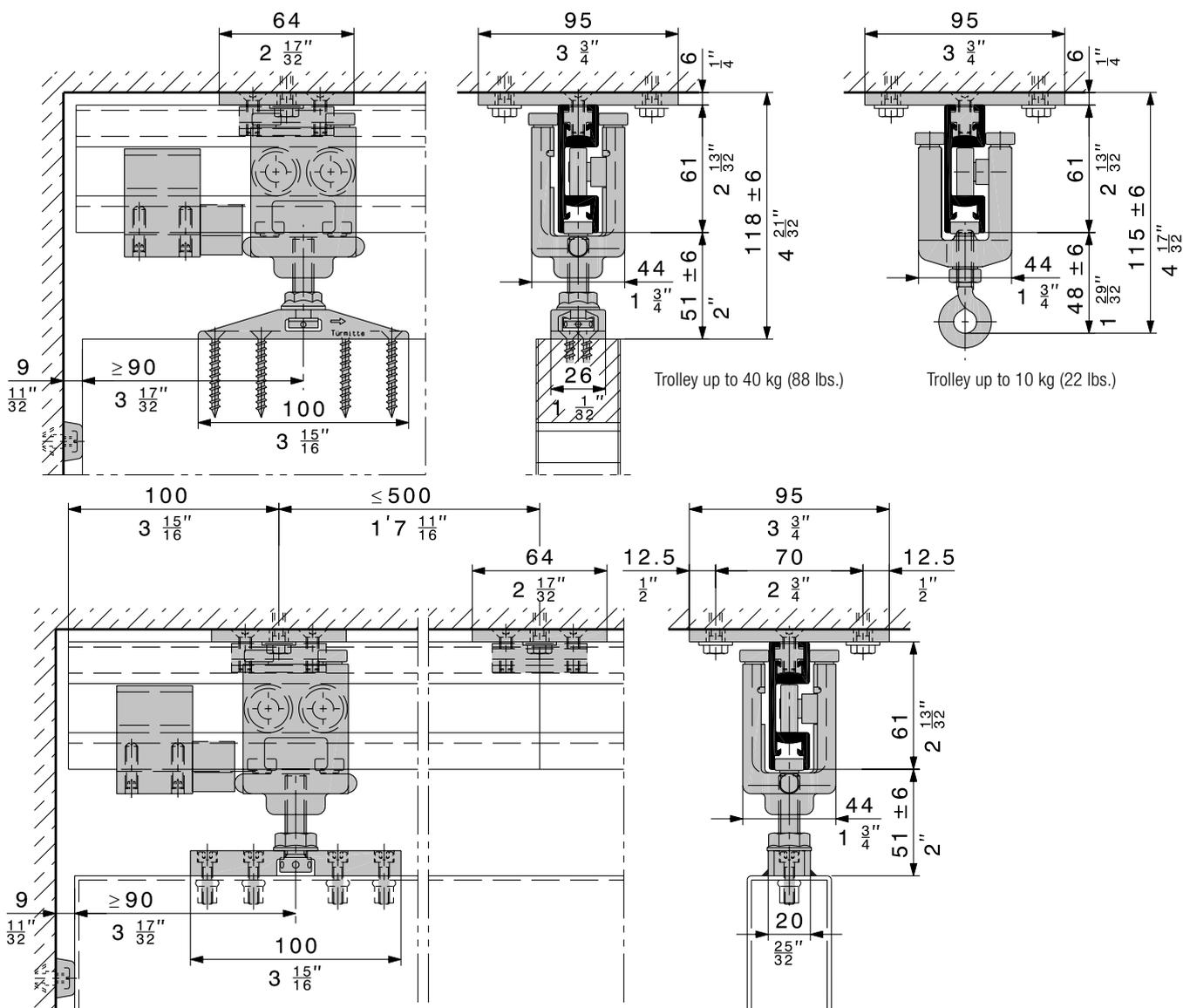
The Hawa Varioflex 40 TS is a hardware system with outstanding cornering properties. The plug-in track system with straight sections and curved rails of 15, 30, 45, 60, 75 and 90 degrees permits complete freedom with regard to construction. Rail joints are linked simply and precisely by means of coupling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

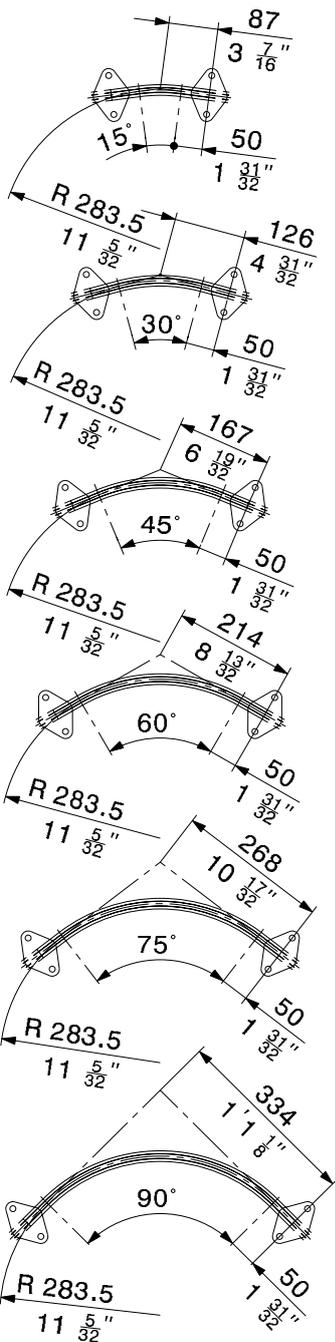
Features of the Hawa Varioflex 40 TS

- 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 ± 6 mm ($\frac{1}{4}$ ")



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

Curve running tracks



Installation

When assembling the running track, a top fixing plate must be attached every 500 mm (1'7 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
		cut to size 14345
	Inner curve running track, alu plain anodized	15° 15125
		30° 15127
		45° 15129
		60° 15131
		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-plated steel (for straight and standard curves)	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

		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 (5/8" x 1 13/16")	15174
	Eye bolt with nut, galvanized steel, M8 x 30 mm (5/16" x 1 1/8")	15173
	Bumper, alu plain anodized	14368
	Bumper door stop, to running track	21010
	Screw-on rubber door stop	10629

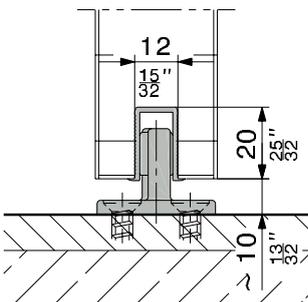
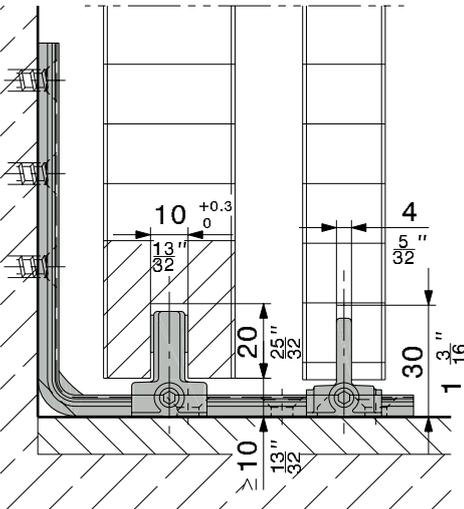
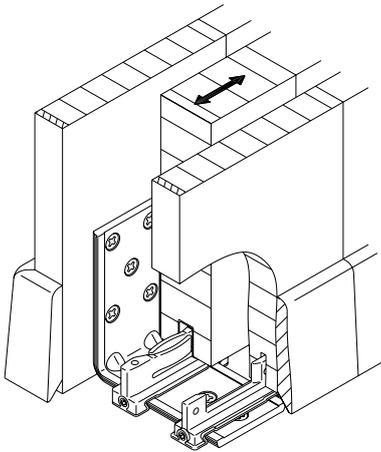
Subject to modification. Metric specifications are exact. Inches are approximate.

Accessories

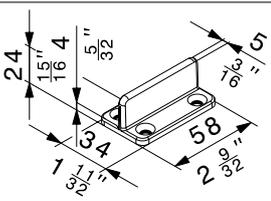
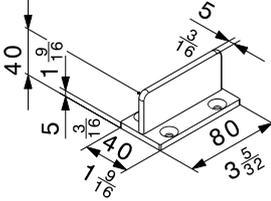
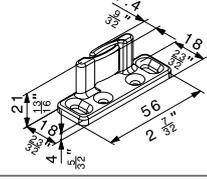
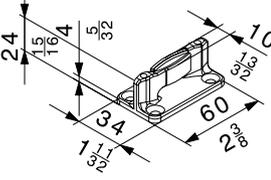
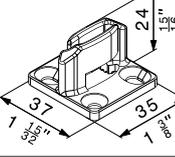
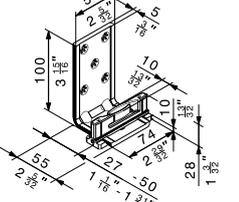
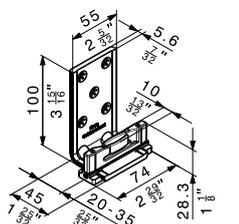
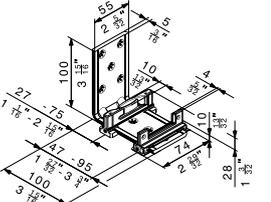
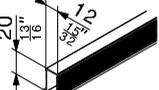
Hawa Confort 120

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.



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

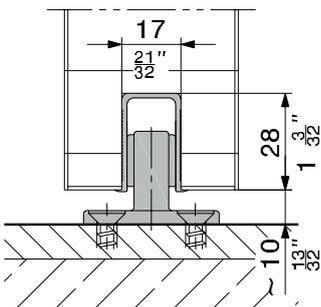
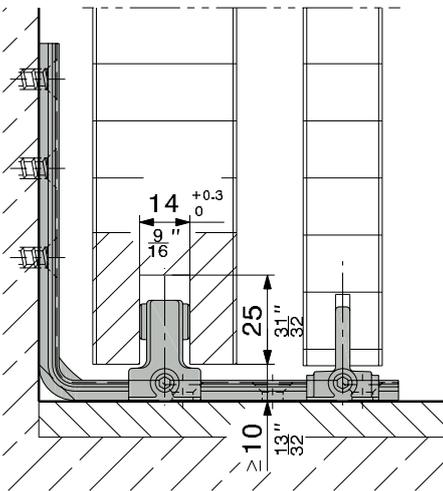
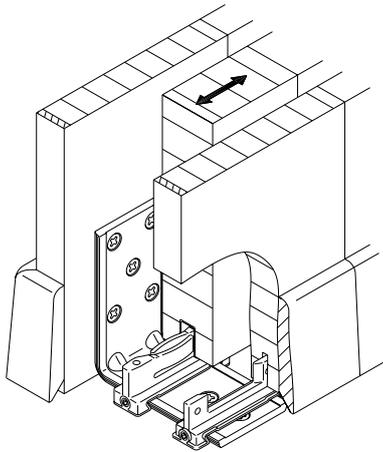
		code
	Floor-mounted guide, plastic, groove width 5 mm ($\frac{7}{32}$)	10507
	Floor-mounted guide, galvanized steel, groove width 5 mm ($\frac{7}{32}$)	10508
	Guide, rattle proof, for screw mounting to floor, black plastic, groove width 7 mm ($\frac{9}{32}$)	20635
	Guide, rattle proof, for screw mounting to floor, black plastic, groove width 10 mm ($\frac{13}{32}$)	1 piece 14427
		set of 10 pieces 25958
	Guide, rattle proof, for screw mounting to floor, black plastic, groove width 10 mm ($\frac{13}{32}$)	25369
	Hawa Confort 120, single, laterally adjustable floor-mounted guide, rattle proof, black plastic, groove width 10 mm ($\frac{13}{32}$)	14649
	Hawa Confort 120, single, laterally adjustable floor-mounted guide, rattle proof, black plastic, groove width 10 mm ($\frac{13}{32}$)	16158
	Hawa Confort 120, dual, laterally adjustable floor-mounted guide, rattle proof, black plastic and holding device for trim wall, groove width 10 + 4 mm ($\frac{13}{32}$ + $\frac{5}{16}$)	14651
	Guide profile, plastic, black, 1300 mm (4'3 $\frac{3}{8}$ "), groove-mounted, set of 10 pieces	14540

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

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

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

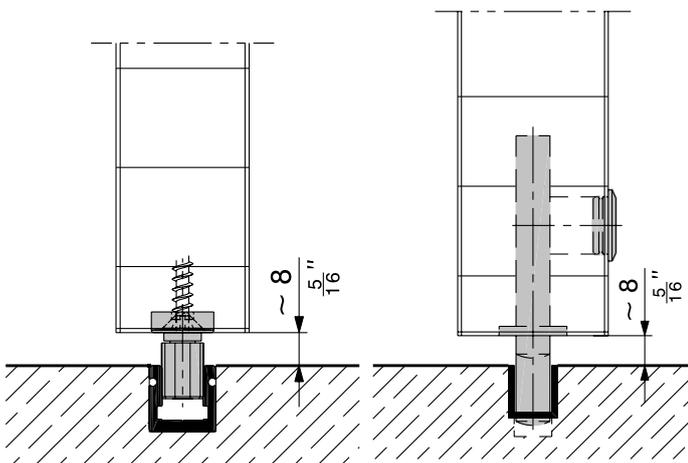
Accessories

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

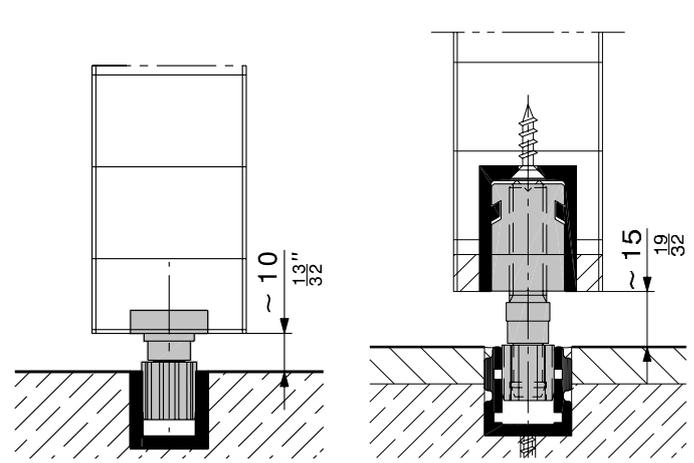
Caution: Hole positions vary		code	
	Single floor guide, screw mounting, rattle proof, wood	14283	
	Bar bolt lock 9 mm ($\frac{3}{8}$ "), profile cylinder	with guide pin 18750	
	without guide pin	18836	
	Bar bolt lock 9 mm ($\frac{3}{8}$ "), square/hexagon socket, with slip-fit rose	with guide pin	18833
	without guide pin	18898	
	Bottom guide channel, brass, predrilled 14 x 13 x 1,5 mm ($\frac{9}{16}$ " x $\frac{17}{32}$ " x $\frac{1}{8}$ ")	undrilled 6000 mm (19'8 $\frac{7}{32}$ ")	10235
	predrilled 6000 mm (19'8 $\frac{7}{32}$ ")	10236	
	cut to size	10237	
	Bottom guide channel, alu plain anodized, predrilled, 16 x 16 x 3 mm ($\frac{5}{8}$ " x $\frac{5}{8}$ " x $\frac{1}{8}$ ")	3500 mm (11'5 $\frac{13}{16}$ ")	18864
	6000 mm (19'8 $\frac{7}{32}$ ")	18216	
	cut to size	18477	
	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	
	Guide plate with rattle proof guide piece, 14 mm ($\frac{9}{16}$ ")	13325	
	Guide with plastic slider 14 mm ($\frac{9}{16}$ ") and suspension block	13781	
	Multi-purpose suspension and retainer profile, alu plain anodized, predrilled	6500 mm (21'3 $\frac{29}{32}$ ")	10346
	cut to size	10347	
	Bottom guide channel, alu plain anodized, predrilled 20 x 20 x 3 mm ($\frac{25}{32}$ " x $\frac{25}{32}$ " x $\frac{1}{8}$ ")	6000 mm (19'8 $\frac{7}{32}$ ")	14414
	cut to size	14415	
	Bottom guide channel, brass, predrilled 20 x 28 x 3 mm ($\frac{25}{32}$ " x $1\frac{1}{8}$ " x $\frac{3}{8}$ ")	6000 mm (19'8 $\frac{7}{32}$ ")	10245
	cut to size	10247	
	Bottom guide channel, alu plain anodized, undrilled	6000 mm (19'8 $\frac{7}{32}$ ")	15405
	cut to size	15554	
	Stop bumper for 15405 and 15554	15636	



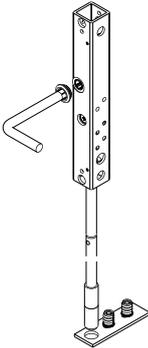
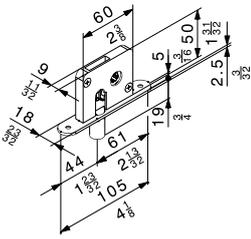
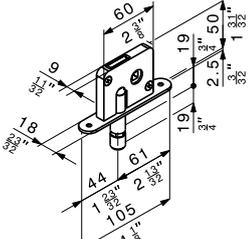
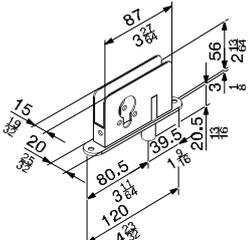
Floor guides and bottom guide profiles, inside dimension 10 mm ($\frac{13}{32}$ "

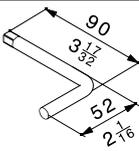
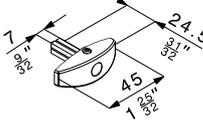
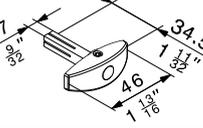
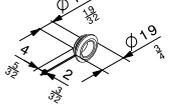
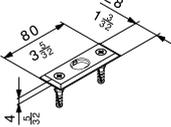
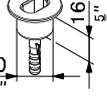
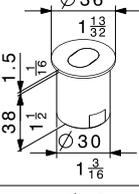


Floor guides and bottom guide profiles, inside dimension 14 mm ($\frac{9}{16}$ "

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

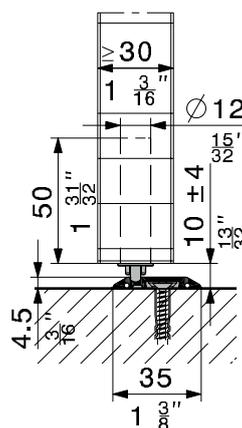
Locks for bottom guide channels, inside dimension 14 mm ($\frac{9}{16}$ "

		code
	<p>Hawa Doorfix Bar bolt lock, galvanized steel Backset 18 mm ($\frac{23}{32}$"") Socket square/hexagonal 7/8 mm Total lift of push rod: 46 mm ($1\frac{11}{16}$"") Double turn, 1st level 28 mm ($1\frac{1}{8}$"") 2nd level 18 mm ($\frac{23}{32}$"") Operation height: 980 mm or 830 mm (3'11$\frac{11}{16}$" or 2'8$\frac{11}{16}$"") Push rod can be shortened.</p> <p>The bar bolt lock can be operated both sides from the door surface as well as from the front.</p> <p>Assembly dimensions → page 46</p>	15077
	<p>Dead bolt lock, 13 mm ($\frac{17}{32}$"") Backset 29.5 mm ($\frac{115}{32}$"") Socket square/hexagonal 7/8 mm</p>	<p>Galvanized steel 10726</p> <p>Stainless steel WNR 1.4301/ AISI 304 17131</p>
	<p>Dead bolt lock, 13 mm ($\frac{17}{32}$"") Galvanized steel, with guide pin plastic-tyred Backset 29.5 mm ($\frac{115}{32}$"") Socket square/hexagonal 7/8 mm</p>	13550
	<p>Hawa bar bolt lock, 13 mm ($\frac{17}{32}$"") Galvanized steel Backset 34.5 mm ($1\frac{11}{32}$"")</p>	<p>profile cylinder 17 mm ($\frac{11}{16}$"") 16695</p> <p>profile cylinder 17 mm ($\frac{11}{16}$""), Stainless steel WNR 1.4301/ AISI 304 21087</p> <p>round cylinder 22 mm ($\frac{7}{8}$"") 16696</p> <p>square/hexagon socket 7/8 mm 16697</p>

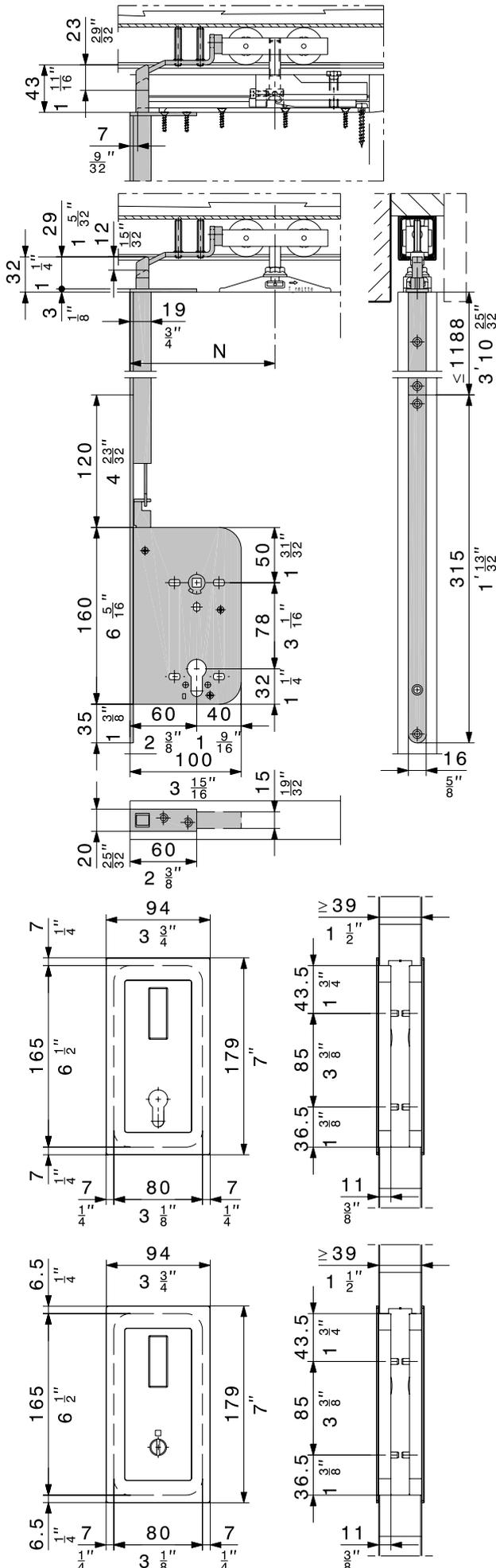
		code
	Key for locks, 7 mm ($\frac{9}{32}$ "")	10723
	Thumbturn, chromium finish, for door thicknesses of 35–40 mm ($1\frac{3}{8}$ " – $1\frac{19}{32}$ "")	13789
	Thumbturn, chromium finish, for door thicknesses of 41–57 mm ($1\frac{5}{8}$ " – $2\frac{1}{4}$ "")	19806
	Slip-fit rose, brass dull nickel finish	13858
	Strike plate, chromium-plated steel	13130
	Sleeve closure including fitting screw	19149
	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

Surface mounted bottom guide

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



Accessories

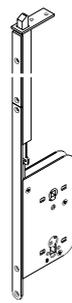


Hawa Silent Stop, bar bolt lock for sliding doors with a height of up to 2350 mm (7'8 ⁷/₁₆") and a max. door weight of 160 kg (352 lbs.).

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

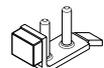
	code
 <ul style="list-style-type: none"> Steel galvanized Left- and right-hand use Backset 60 mm (2 ³/₈") Aperture spacing 78 mm (3 ⁵/₈") Forend 16/3/315 mm (⁵/₈" / ¹/₈" / 1 ¹³/₃₂") Socket 8 mm (⁵/₁₆") Without strike plate Push bar, guide profile and lock plate can be shortened 	
with hinged-ring key	14349
for 17 mm (¹¹ / ₁₆ ") profiled cylinder	14350
with 7 mm (⁹ / ₃₂ ") socket (WC)	14351

Inlets for Hawa Silent Stop bar bolt lock

	code
 <ul style="list-style-type: none"> Set of inlets Stainless steel brushed Wood thickness 39–70 mm (1 ¹⁷/₃₂" – 2 ³/₄") Aperture spacing 78 mm (3 ⁵/₈") Set comprising: 2 inlets Thumbturn above, 8 mm (⁵/₁₆") thorn 	
with hinged-ring key	24831
for 17 mm (¹¹ / ₁₆ ") profiled cylinder	24832
 <ul style="list-style-type: none"> Set of inlets for WC bar bolt lock Stainless steel brushed Wood thickness 39–70 mm (1 ¹⁷/₃₂" – 2 ³/₄") Aperture spacing 78 mm (3 ⁵/₈") Set comprising: 1 inlet external, with visible plate green/red 1 inlet interior, thumbturn above, 8 mm (⁵/₁₆") thorn, thumbturn WC, 7 mm (⁹/₃₂") 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

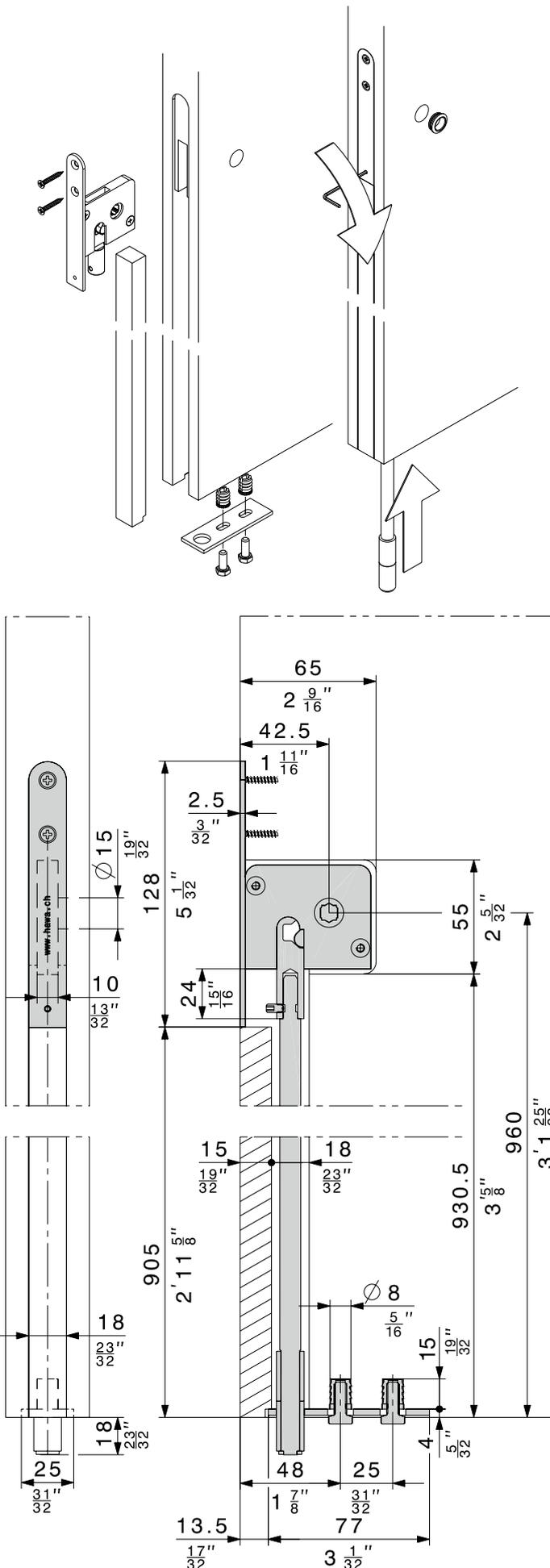
	code
 <ul style="list-style-type: none"> Strike plate, steel galvanized 	<ul style="list-style-type: none"> Hawa Junior 40 10746 Hawa Junior 80 10734 Hawa Junior 120 14872 Hawa Junior 160 10745 Hawa Silenta 150 B 10736
 <ul style="list-style-type: none"> Strike plate to Hawa Media 70 	10739

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

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

Hawa Bar bolt lock

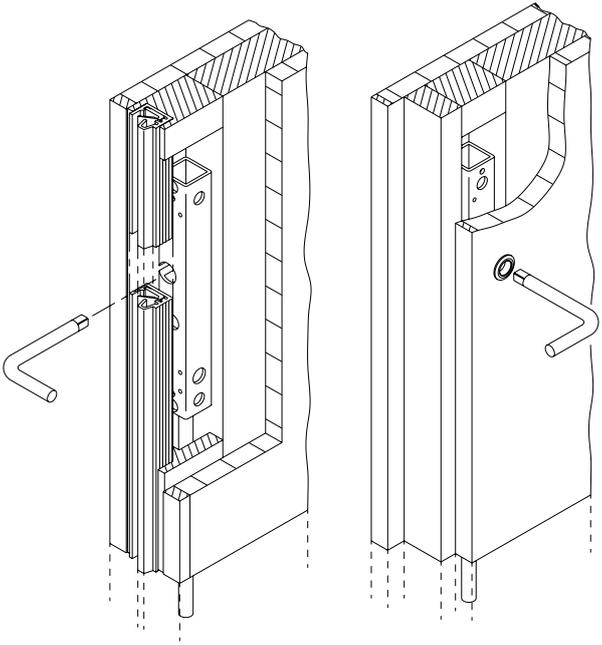
		code
	Bar bolt lock Backset 42,5 mm (1 $\frac{11}{16}$ "") Socket square/hexagonal, 7/8 mm Total lift of push rod: 18 mm ($\frac{3}{4}$ "") Operation height: 960 mm (3'1 $\frac{25}{32}$ "") complete	19592
	Thumbturn, chromium finish, for panel thickness 35 to 40 mm (1 $\frac{3}{8}$ " to 1 $\frac{13}{16}$ "")	13789
	Thumbturn, chromium finish, for panel thickness 41 to 57 mm (1 $\frac{5}{8}$ " to 2 $\frac{1}{4}$ "")	19806
	Key for deadbolt lock	10723
	Slip-fit rose, brass dull nickel finish	13858
	Floor-mounted sleeve with oblong hole and chromium plated brass spring, Ø 36 mm (1 $\frac{3}{8}$ "")	13787
	Rosette for floor-mounted sleeve 13787	17326
	Strike plate, chromium-plated steel	13130



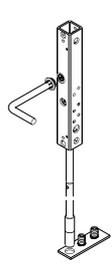
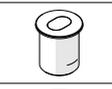
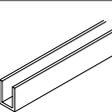
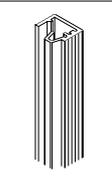
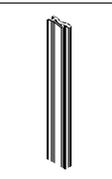
Subject to modification. Metric specifications are exact. Inches are approximate.

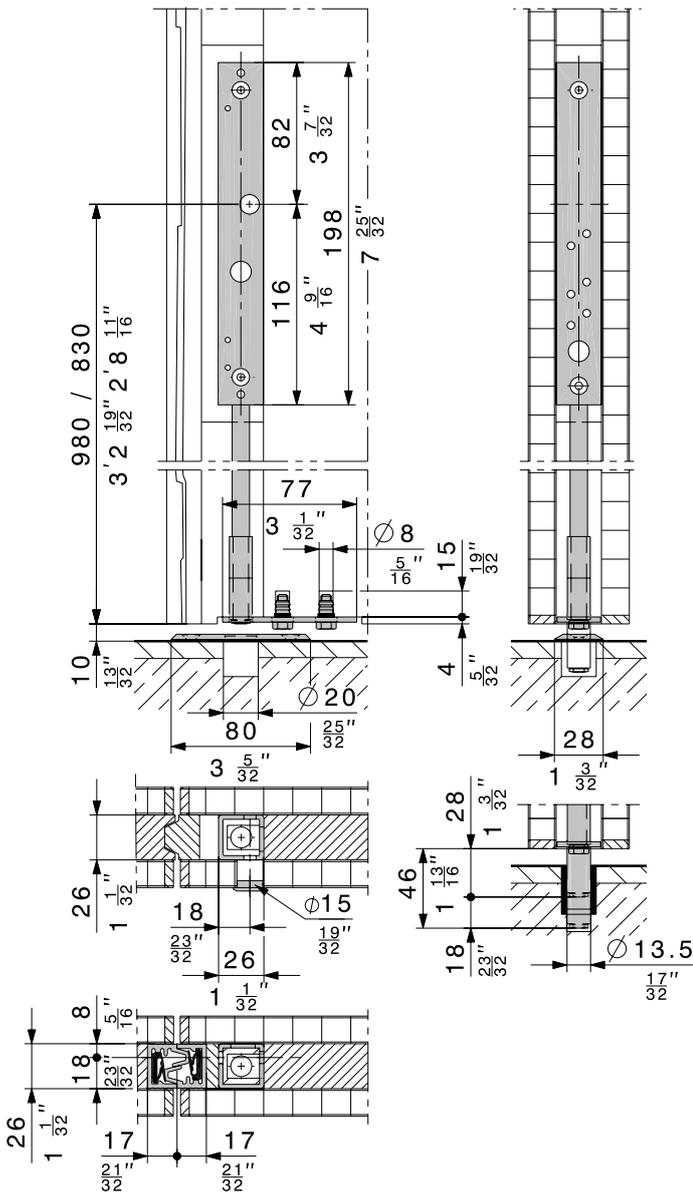
Accessories

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 ¹³/₁₆").

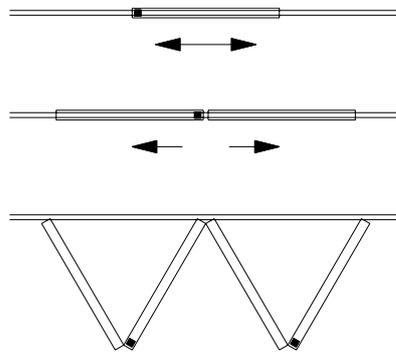


Bar bolt lock Hawa Doorfix

		code
	Galvanized steel Backset 18 mm (²³ / ₃₂ "") Socket square/hexagonal 7/8 mm Total lift of push rod: 46 mm (1 ¹³ / ₁₆ "") Double turn, 1 st level 28 mm (1 ¹ / ₄ "") 2 nd level 18 mm (²³ / ₃₂ "") Operation height: 980 mm or 830 mm (3'11 ¹³ / ₁₆ " or 2'8 ¹¹ / ₁₆ ""), complete Push rod can be shortened.	15077
	Strike plate, chromium-plated steel	13130
	Floor-mounted sleeve with oblong hole and chromium plated brass spring, Ø 36 mm (1 ⁹ / ₁₆ "")	13787
	Rosette for floor-mounted sleeve 13787	17326
	Bottom guide channel, brass, predrilled, 20 x 28 x 3 mm (²³ / ₃₂ " x 1 ¹ / ₄ " x ¹ / ₈ "") (Caution: Hole positions vary)	6000 mm (19'8 ⁷ / ₃₂ "")
		cut to size
	Seal profile, alu plain anodized, predrilled	6000 mm (19'8 ⁷ / ₃₂ "")
		cut to size
	Rubber profile, black	roll of 20 m (65'7 ¹³ / ₃₂ "")
		cut to size



Examples of use



Planning/installation

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

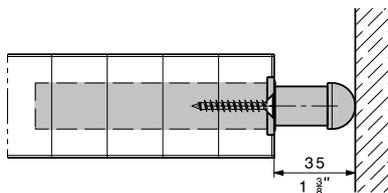
Subject to modification. Metric specifications are exact. Inches are approximate.

Hinges

		code
	galvanized	14298
	dull nickel finish	14299
	brass effect	14300
	stainless steel WNR 1.4301/AISI 304	14588
	Hinge, stainless steel WNR 1.4301/AISI 304	23688
	dull nickel finish	10652
	burnished	10666

Spring-loaded door stop for heavy sliding doors

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

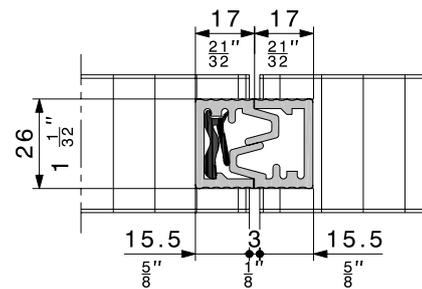


Bottom door stop

Caution: Minor differences in colour are possible		code
	dull chromium finish	20773
	stainless steel effect	21473
<p>The bottom door stop quietly and gently stalls sliding doors. Sliding doors should be stopped simultaneously at top and bottom.</p>		

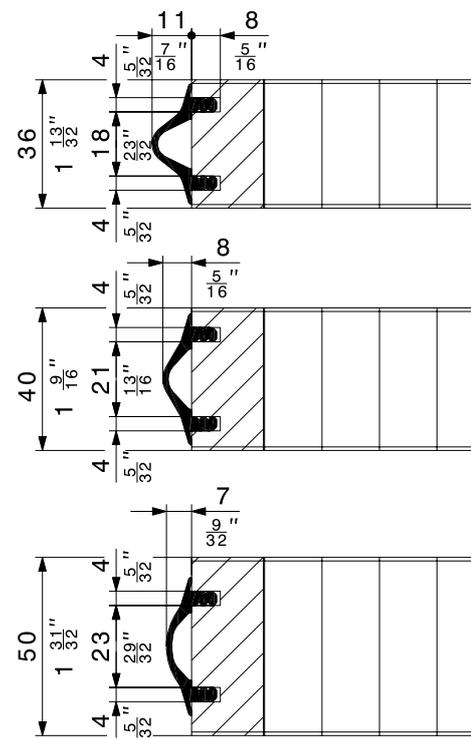
Seal profiles

		code
	6000 mm (19'8 7/8")	14223
	cut to size	13528
	roll of 20 m (65'7 13/32")	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 27/32")	10626
		10 m (32'9 23/32")	12325
	Hawa protective edge trim, brown, similar RAL 8024	5 m (16'4 27/32")	10627
		10 m (32'9 23/32")	12326
	Hawa protective edge trim, cream-white, similar RAL 9001	5 m (16'4 27/32")	10649
		10 m (32'9 23/32")	12327
	Hawa protective edge trim, beige, similar RAL 1001	5 m (16'4 27/32")	15620
		10 m (32'9 23/32")	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.

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.**



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