

Glass sliding walls made easy.

Hardware system for stackable glass sliding walls weighing up to 60 kg (132 lbs.).

Description

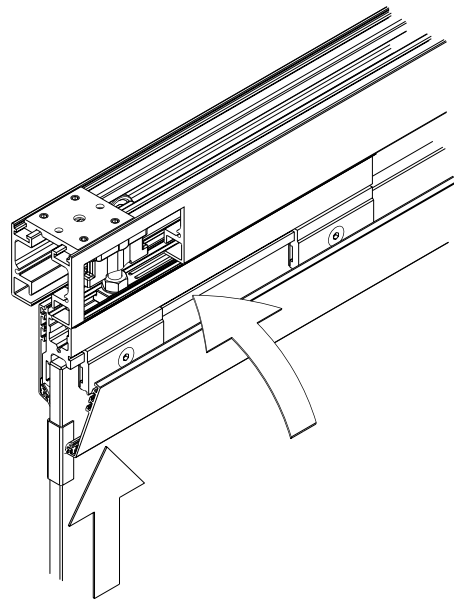
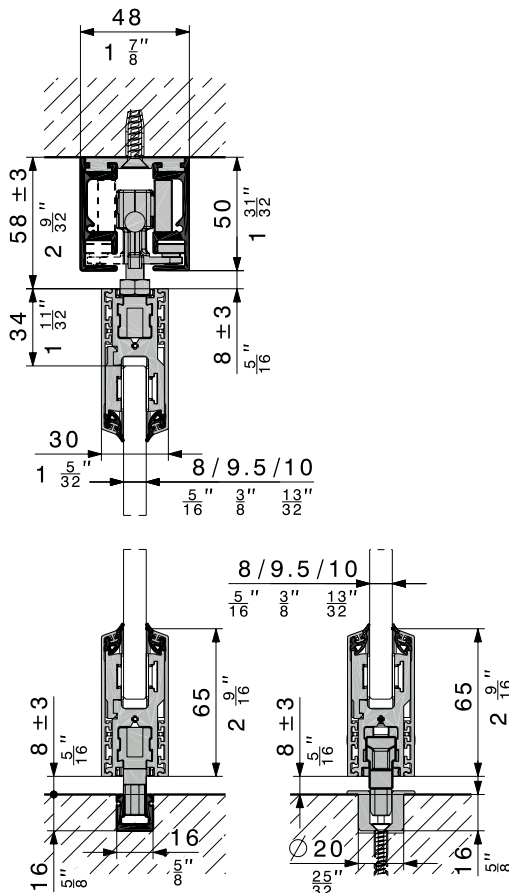
Hawa Aperto 60 GL addresses the need for flexible, open room design. Specially developed for lightweight glass partitions, the system fits in perfectly with contemporary architectural design. Cover profiles are available in various finishes, protected by a removable foil. Hawa Aperto 60 GL is easy to plan and install, thanks to its sophisticated engineering and straightforward component structure. This avoids customer-tailored manufacturing for standard partitions. Hawa recommends using a bottom guide channel for ultimate ease of operation. However, installations without floor guides are also possible.

Applications

For partitions and screens wherever individual, changeable space division is required in rooms. With its minimal fitting dimensions and modest stacking space requirements, retrofitting Hawa Aperto 60 GL in existing rooms is also no problem. The system also makes for easier, cheaper realisation of ceiling to counter-top partitions.

Features of Hawa Aperto 60 GL

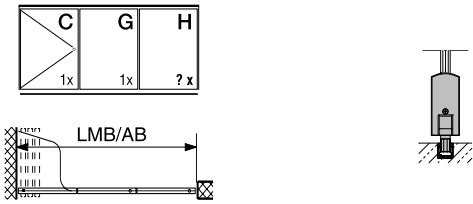
- Maximum door weight 60 kg (132 lbs.)
- Stacking area accommodates up to 9 door panels incl. pivot door
- Profile height 65 mm ($2\frac{9}{16}$ ")
- Door thickness ESG (fully tempered monolithic glass):
8/9,5/10 mm ($\frac{5}{16}$ " / $\frac{3}{8}$ " / $\frac{13}{32}$ ")
- Minimum door width 500 mm ($1'7\frac{11}{16}$ ")
- Maximum door width (stacking parallel to the slide axis)
 - Sliding door: 1100 mm ($3'7\frac{5}{16}$ ")
 - Pivot door: 1200 mm ($3'11\frac{1}{4}$ ")
- Maximum door width (stacking 90° to the slide axis)
 - Sliding door and pivot door: 950 mm ($3'1\frac{13}{32}$ ")
- Maximum door height 2600 mm ($8'6\frac{3}{8}$ ")
- Height adjustment ± 3 mm ($\frac{1}{8}$ ")
- Centre stop with progressively adjustable retention spring catch
- Running tracks and bottom guide channels: alu plain anodized
- Complete, harmonious solution thanks to fixed glass set
- Comprehensive planning and assembly instructions



Stacking area options

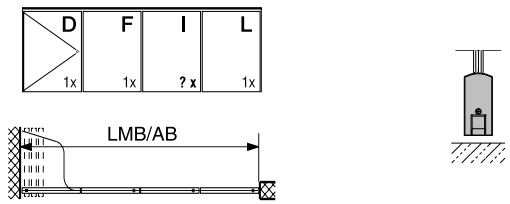
With Hawa Aperto 60 GL, lightweight glass partitions tuck away invisibly behind a wall or a pivot door.

System type 1



Sets	Type	Pieces	code
Pivot door	C	1	19188
Sliding door	G	1	19192
Sliding door	H	?X	19193
Stacking area		1	18758

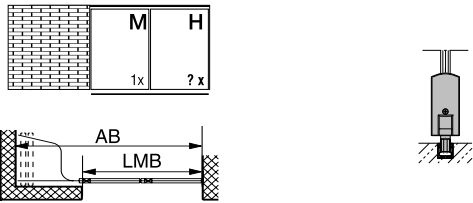
System type 2



Sets	Type	Pieces	code
Pivot door	D	1	19189
Sliding door	F	1	19191
Sliding door	I	?X	19194
Sliding door	L	1	19196
Stacking area		1	18759

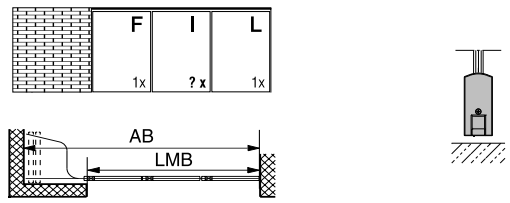
► Recommended connection pieces: → table on the next page.

System type 3



Sets	Type	Pieces	code
Sliding door	M	1	19198
Sliding door	H	?X	19193
Stacking area		1	18758

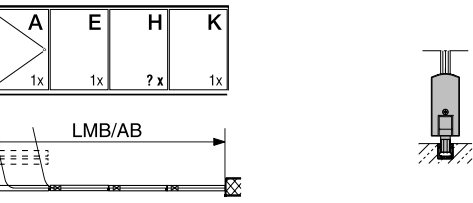
System type 4



Sets	Type	Pieces	code
Sliding door	F	1	19191
Sliding door	I	?X	19194
Sliding door	L	1	19196
Stacking area		1	18759

► Recommended connection pieces: → table on the next page.

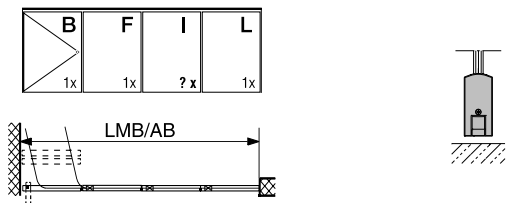
System type 5



Sets	Type	Pieces	code
Pivot door	A	1	19186
Sliding door	E	1	19190
Sliding door	H	?X	19193
Sliding door	K	1	19195
Stacking area		1	18756

► Recommended connection pieces: → table on the next page.

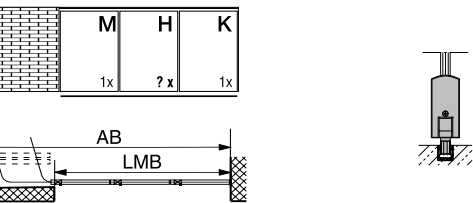
System type 6



Sets	Type	Pieces	code
Pivot door	B	1	19187
Sliding door	F	1	19191
Sliding door	I	?X	19194
Sliding door	L	1	19196
Stacking area		1	18757

► Recommended connection pieces: → table on the next page.

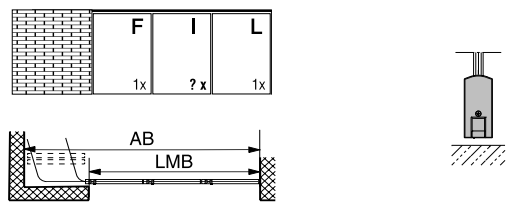
System type 7



Sets	Type	Pieces	code
Sliding door	M	1	19198
Sliding door	H	?X	19193
Sliding door	K	1	19195
Stacking area		1	18756

► Recommended connection pieces: → table on the next page.

System type 8




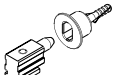

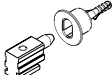
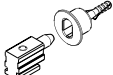

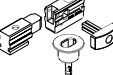

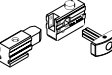
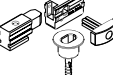

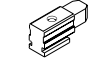
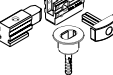
Sets	Type	Pieces	code
Sliding door	F	1	19191
Sliding door	I	?X	19194
Sliding door	L	1	19196
Stacking area		1	18757

► Recommended connection pieces: → table on the next page.

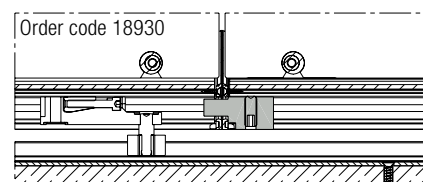
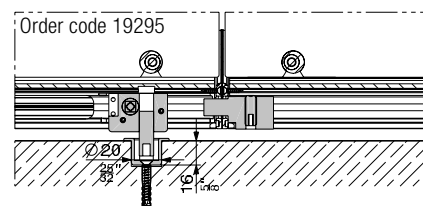
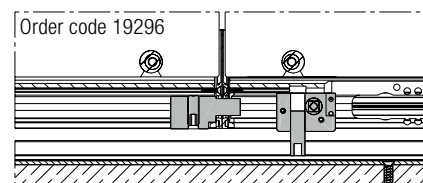
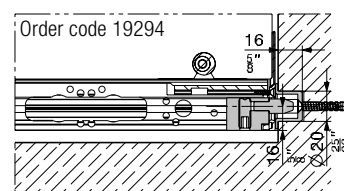
Connection options

Depending on the connection situation, we recommend using supplementary parts according to the table. They ensure maximum convenience and stabilise the wall when it is closed.

Connection pieces

Connection options	with bottom guide channel	code	without bottom guide channel	code
				19294
		19294		19294
				19295
		19296		19295
		18930		19295

Connection options front view



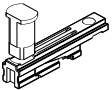

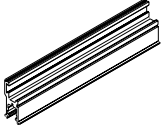
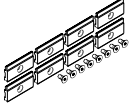


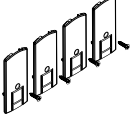
Fixed glass set

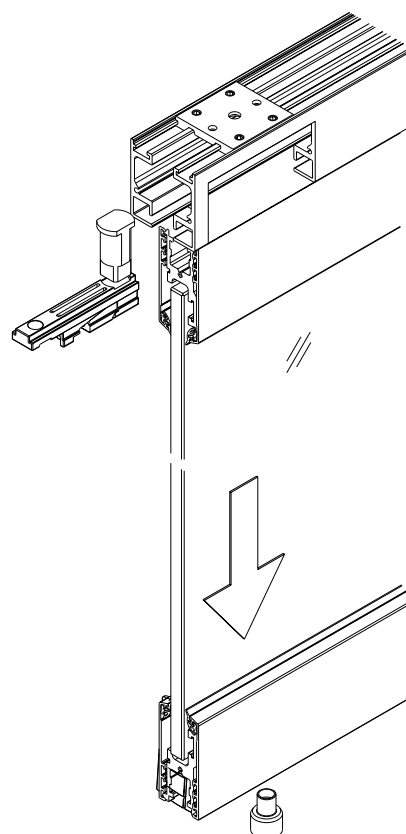
	code
Fixed glass set for Hawa Aperto 60 GL	19750

Fixed glass

The fixed glass set facilitates a complete and harmonious solution.

Set comprising

	pieces	code
	2	19714
	1	19715
	4	19026
	1	19264
	1	19265
	1	19266
	1	19267



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

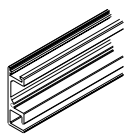


Stacking area 90°

		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	→	

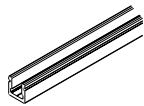
Stacking area parallel

		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	→	

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 ⁷ / ₃₂ ")	16891
		cut to size	17529
	Top fixing plate for 2 x single running track, alu, 1 piece		17128
	Top fixing plate for 2 x single running track, set of 6 pieces		17806
	Top fixing plate for 2 x single running track, set of 8 pieces		17807
	Cover cap for 2 x single running track, alu plain anodized		19354

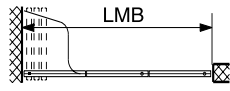
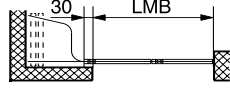

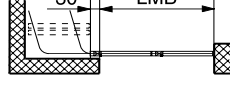
Bottom guide channels

Caution: Hole positions vary		mm/inch	code
	Bottom guide channel, alu plain anodized, undrilled, 16 x 16 mm (⁵ / ₈ " x ⁵ / ₈ ")	6000 (19'8 ⁷ / ₃₂ ")	18200
	Bottom guide channel, alu plain anodized, predrilled, 16 x 16 x 3 mm (⁵ / ₈ " x ⁵ / ₈ " x ¹ / ₈ ")	3500 (11'5 ¹³ / ₁₆ ")	18864
		6000 (19'8 ⁷ / ₃₂ ")	18216
		cut to size	18477

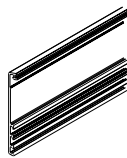


Nominal order length for cover profile and clip-on rubber

The basic nominal order length for the cover profiles and the clip-on rubber can be calculated as follows


Stacking area 90° and parallel

options	length of cover profile (incl. trimming reserve)	length of clip-on rubber (incl. trimming reserve)
	$\frac{LMB}{AT}$	LMB x 4
	$\frac{LMB + 30}{ST}$	(LMB + 30) x 4
	for STB: $\frac{LMB - 100}{AT}$ for DT: STB + 100	LMB x 4
	$\frac{LMB + 30}{ST}$	(LMB + 30) x 4
AT = Number of doors including pivot door ST = Number of sliding doors STB = Sliding door width DT = Pivot door		

Cover profiles/clip-on rubber

		mm/inch	code
	Cover profile, alu unanodized, (finished by customer) set for one door (4 pieces)	800 (2'7 ¹ / ₂ ")	19231
		1000 (3'3 ³ / ₈ ")	19232
		1200 (3'11 ¹ / ₄ ")	19233
	Cover profile, alu plain anodized, brushed, set for one door (4 pieces)	800 (2'7 ¹ / ₂ ")	19234
		1000 (3'3 ³ / ₈ ")	19235
		1200 (3'11 ¹ / ₄ ")	19236
	Cover profile, stainless steel effect, brushed, set for one door (4 pieces)	800 (2'7 ¹ / ₂ ")	19237
		1000 (3'3 ³ / ₈ ")	19238
		1200 (3'11 ¹ / ₄ ")	19239
	Clip-on rubber for cover profile, black, 10 m (32'9 ³ / ₈ ") roll		19175
The clip-on rubber is necessary for installing the cover profile.			

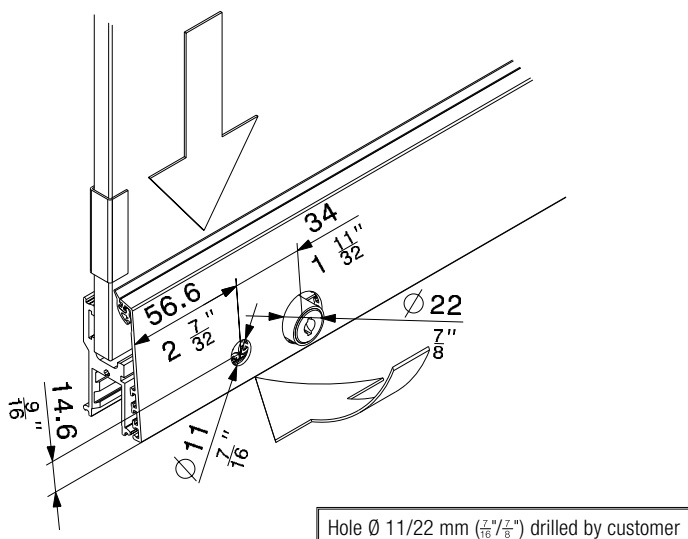
Glass fixing parts

		thickness of glass	code
	Glass fixing parts, set for one door (16 pieces)	8 mm ($\frac{5}{16}$ ")	19269
		9,5 mm ($\frac{3}{8}$ ")	19271
		10 mm ($\frac{13}{32}$ ")	19270
Glass fixing parts must be ordered to match the glass thickness.			

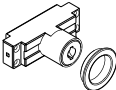
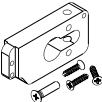
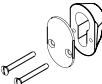
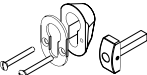
Cylinder module for round bar lock

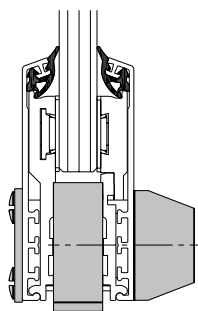
Lockable door sets include a round bar lock with rotary handle.
A cylinder module with 3 locking options may also be ordered where
it is necessary to secure the system.

A cylinder module for 17 mm ($\frac{11}{16}$ ") profile cylinders is available for installations with increased security requirements, e.g. shop fronts. It can be built into a locking installation and can also be fitted with a special security rosette for half or double-profiled cylinders.

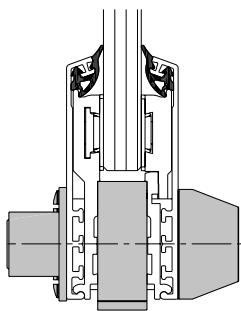


Cylinder module/cylinder rosette

	key	code
	Locking 01	19171
	Locking 02	19172
	Locking 03	19173
	Cylinder module for profile cylinder 17 mm ($\frac{11}{16}$ ")	19610
	Special security rose for single profile cylinder, length 29,5–31,5 mm ($1\frac{5}{32}$ – $1\frac{1}{4}$ ")	19680
	Special security rose for double profile cylinder, length 59–63 mm ($2\frac{11}{32}$ – $\frac{1}{2}$ ") incl. thumbturn long	19699



Single cylinder

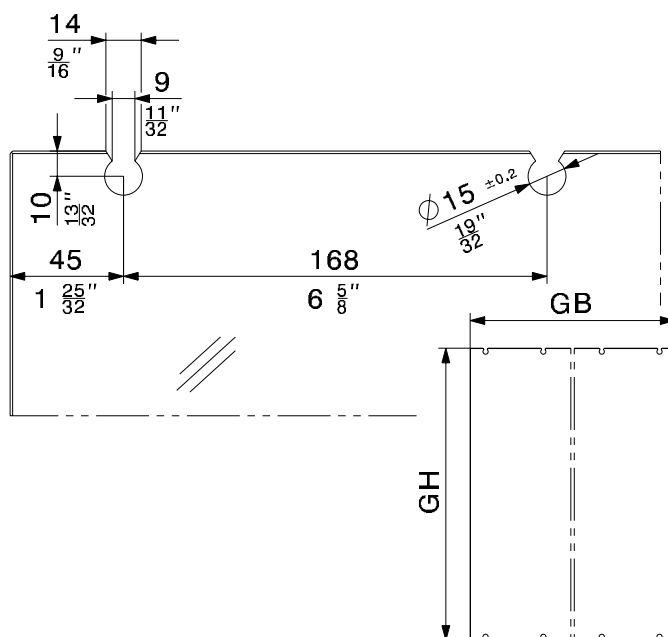


Double cylinder


Glass cutouts

Only glass ESG (fully tempered monolithic glass) may be used.

- Glass thickness sliding door ESG (fully tempered monolithic glass): 8/9,5/10 mm ($\frac{5}{16}"/\frac{3}{8}"/\frac{13}{32}"$), thickness tolerance $\pm 0,3$ mm
- All glass edges are seamed; maximum 1 mm ($\frac{1}{16}"$) in the glass cutout



Rubber profile for glass edge protection

		roll of	code
	Rubber profile self-adhesive, for 8/10 mm ($\frac{5}{16}$ " / $\frac{13}{32}$ ") glass thickness, black, glass distance 4 mm ($\frac{5}{32}$ ")	5 m (16'4 $\frac{27}{32}$ ")	19442
		10 m (32'9 $\frac{23}{32}$ ")	19443
		50 m (164'1 $\frac{1}{2}$ ")	19444
	Rubber profile self-adhesive, for 8/10 mm ($\frac{5}{16}$ " / $\frac{13}{32}$ ") glass thickness, translucent, glass distance 4 mm ($\frac{5}{32}$ ")	5 m (16'4 $\frac{27}{32}$ ")	19445
		10 m (32'9 $\frac{23}{32}$ ")	19446
		50 m (164'1 $\frac{1}{2}$ ")	19447

Customer tayilored installations

Please contact Hawa for customer tailored installations with special stacking areas, more than 9 doors, 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
- Quantity and length of running tracks: → calculation
- Quantity and length of bottom guide channels: → calculation
- Quantity and type of glass fixing parts
- Quantity and type of cover profiles: → calculation
- Quantity of clip-on rubber rolls: → calculation
- Quantity of top fixing plates: → calculation
- Quantity and type of connection pieces: → table
- Quantity of fixed glass sets
- Quantity and type of concealed stacking area interior
- Quantity and type of cylinder module
- Quantity and type of special security roses

Planning/installation

For planning and installation purposes, please use the installation drawing code 19200 (parallel) or code 19201 (90°).
(→ www.hawa.ch → Hawa Productfinder)

Stacking area sets

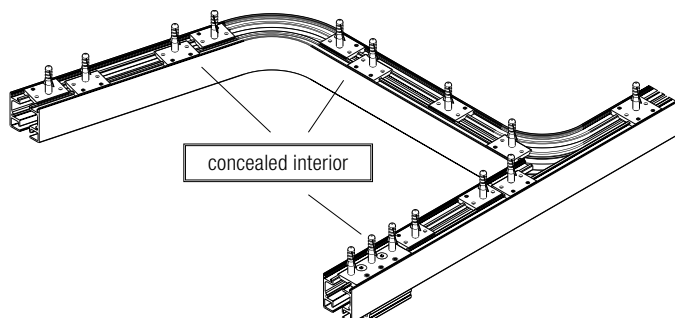
	code
Stacking area set, with bottom guide channel, stacking parallel	18756
Stacking area set, without bottom guide channel, stacking parallel	18757
Stacking area set, with bottom guide channel, stacking 90°	18758
Stacking area set, without bottom guide channel, stacking 90°	18759

sets comprising

		18756	18757	18758	18759	code
	Single running track curved segment, 75° inside, length of leg 580 mm (1'10 22/32")	1	1	–	–	17289
	Single running track curved segment, 75° outside, length of leg 580 mm (1'10 22/32")	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
	Hexagon key 4 mm, length 230 mm (9 1/16")	1	1	1	1	18751
	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 29/32")	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
	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

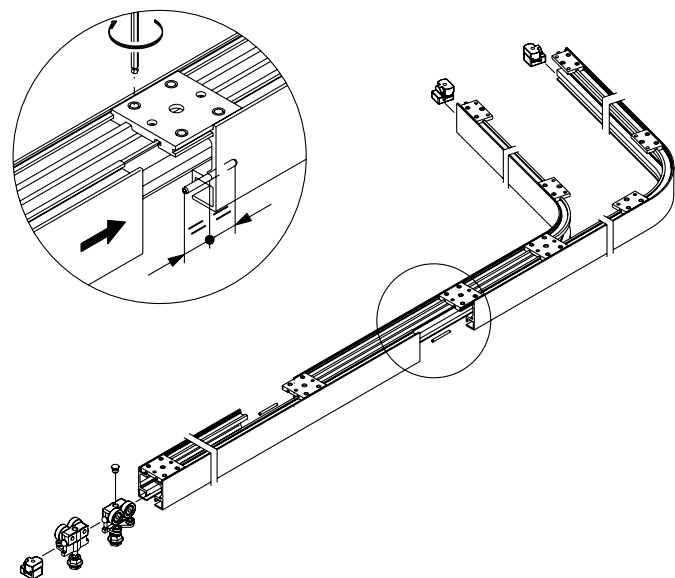
	code
Profile set for concealed interior for installations with stacking parallel to the slide axis, complete	19147
Profile set for concealed interior for installations with stacking 90° to the slide axis, complete	19148

Set comprising

		19147	19148	code
	Single running track curved segment, 75° inside, length of leg 580 mm (1'10 22/32")	1	1	17289
	Single running track 550 mm (1'7 11/16"), 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

Easy action

Top fixing plates must be fitted at the running track joints to ensure an easy sliding action.



Pivot door sets

	type	code
Pivot door set for installation with parallel stacking area, with bottom guide channel	A	19186
Pivot door set for installation with parallel stacking area, without bottom guide channel	B	19187
Pivot door set for installation with 90° stacking area, with bottom guide channel	C	19188
Pivot door set for installation with 90° stacking area, without bottom guide channel	D	19189

Set comprising

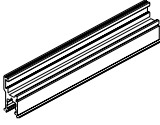
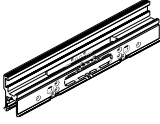


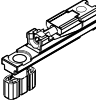
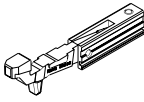





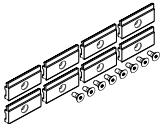



		19186	19187	19188	19189	
Door types		A	B	C	D	code
	Glass retainer profile 240 mm (9 ¹⁵ / ₃₂ "), alu	3	3	3	3	19026
	Glass retainer profile 240 mm (9 ¹⁵ / ₃₂ "), with lock cutout, alu	1	1	1	1	19027
	Top pivot bearing for installations with stacking parallel	1	1	–	–	18779
	Top pivot bearing for installations with stacking 90°	–	–	1	1	19142
	Bottom pivot, fitting with 16 x 16 mm (5/8" x 5/8") bottom guide channel	–	–	1	–	18730
	Bottom pivot with thrust bearing sleeve Ø 20 mm (3/4")	1	1	–	1	18785
	Sleeve closure including fitting screw	–	1	–	1	19149
	Pivot door snap closure including counter-piece	1	1	1	1	19050
	Round bar lock with square socket 7 mm (9/32")	1	1	1	1	19170
	Thumbturn, chromium finish, with square pin 24 mm (15/16")	1	1	1	1	19107
	Matching segment 300 mm (11 ¹³ / ₁₆ "), outside, for running track, concealed interior, stacking parallel	1	1	–	–	18804
	Matching segment 300 mm (11 ¹³ / ₁₆ "), inside, for running track, concealed interior, stacking parallel	1	1	–	–	19144

		19186	19187	19188	19189	
Door types		A	B	C	D	code
	Top fixing plate for 2 x single running track, alu	1	1	–	–	17128
	Fork spanner SW 13 mm (17/32")	1	1	1	1	19128
	Retainer plate for glass retainer profile, including screws, set of 8 pieces (for 1 door)	1	1	1	1	19264
	Suspension bolt for glass suspension profile, with set screws, set of 8 pieces (for 1 door)	1	1	1	1	19265
	Eccenter, plastic, for glass fixing, set of 8 pieces (for 1 door)	1	1	1	1	19266
	Cover caps for glass retainer profile, plastic anthracite-grey RAL 7016, set of 4 pieces (for 1 door)	1	1	1	1	19267

Sliding door sets

	type	code
Sliding door sets	E	19190
	F	19191
	G	19192
	H	19193
	I	19194
	K	19195
	L	19196
	M	19198
Sets comprising: → following page		

Sliding door sets comprising

	Door types	19190	19191	19192	19193	19194	19195	19196	19198	code
		E	F	G	H	I	K	L	M	
	Glass retainer profile 240 mm (9 ¹⁵ / ₃₂ "), aluminium	4	3	3	4	4	3	3	3	19026
	Glass retainer profile 240 mm (9 ¹⁵ / ₃₂ "), with lock cutout, aluminim	–	1	1	–	–	1	1	1	19027
	Two-wheeled trolley, M8, plastic-tyred ball bearings	2	2	2	2	2	2	2	2	18708
	Suspension plate, including M8 hanger bolt, with integrated assembly wedge	2	2	2	2	2	2	2	2	18651
	Floor guide rattle proof, plastic, 10 mm (¹³ / ₃₂ "), with suspension plate	1	–	1	1	–	1	–	–	18649
	Bottom locking device	–	–	–	–	1	–	1	–	18932
	Centering assembly, alu plain anodized	–	–	–	1	–	1	–	–	18930
	Sleeve closure including fitting screw	–	1	–	–	1	–	1	–	19149
	Round bar lock with square socket 7 mm (⁹ / ₃₂) and guide pin	–	–	–	–	–	–	–	1	19179
	Round bar lock with square socket 7 mm (⁹ / ₃₂)	–	1	1	–	–	–	–	–	19170
	Thumbturn, dull chromium finish, with square pin 24 mm (¹⁵ / ₁₆)	–	1	1	–	–	–	–	1	19107
	Retainer plate for glass retainer profile, including screws, set of 8 pieces (for 1 door)	1	1	1	1	1	1	1	1	19264
	Suspension bolt for glass suspension profile with set screw, set of 8 pieces (for 1 door)	1	1	1	1	1	1	1	1	19265
	Eccenter plastic, for glass fixing, set of 8 pieces (for 1 door)	1	1	1	1	1	1	1	1	19266
	Cover cap for glass retainer profile, plastic anthracite-grey RAL 7016, set of 4 pieces (for 1 door)	1	1	1	1	1	1	1	1	19267