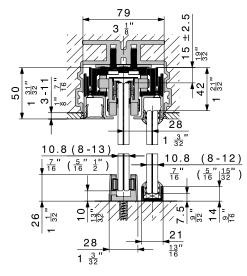


Integration in concrete ceilings



Two-part, rattle-proof floor guide and stationary element in a continuous surface-mounted floor profile.

6

Transparency through complete integration

Hardware system for all-glass sliding doors with concealed suspension, weighing up to 100 or 150 kg (220 or 330 lbs.).

Description

Hawa Puro 100/150: fascinating aesthetic appeal, smooth and easy sliding, and exemplary ease of installation. There are many reasons why sliding solutions incorporating Hawa Puro are so pleasing. High-quality ball bearing technology built into the system's trolleys allows you to slide doors weighing up to 150 kg (330 lbs.) smoothly and quietly along anodised running tracks. And assembly is made simple by benefits such as punctiform, rattle-proof, floor-mounted guides, centric glass suspension and the new, patent-pending wedge suspension. A further plus are removable additional profiles for quick and easy dressing and integration of fixed elements made of glass, wood or other materials.

Applications

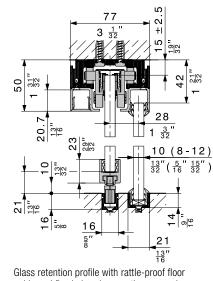
Wherever glass/glass or glass/wood combinations are used as room partitioning and design elements, not only in hotels, restaurants, conference rooms and administration buildings, but also for private interior design, especially in lofts with suspended ceilings.

Features of the Hawa Puro 100/150

- Maximum door weight 4-wheels, 100 kg (220 lbs.)
- Maximum door weight 6-wheels, 150 kg (330 lbs.)
- Minimum door width 750 mm (2'5¹⁷/₃₂")
- Trolleys with high-quality ball bearing technology
- Glass retention and wedge suspension technology integrated in the running track
- Can be combined with inset profile system Hawa Adapto 100/150 P
- · Ceiling joint profiles for suspended lightweight ceilings
- · Interlocking suspension of glass doors in the slide axis
- Additional profiles removable from below
- Glass thickness sliding door ESG (fully tempered monolithic glass): $8/10/12/12,7 \text{ mm} \left(\frac{5}{16} / \frac{13!}{32} / \frac{5}{2} / \frac{1}{2} ''\right)$ VSG (fully tempered laminated glass): 8–12,7 mm $\left(\frac{5}{16} - \frac{1}{2} ''\right)$
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass): 8–12 mm (⁵/₁₆ – ¹⁵/₃₂) with silicone up to 13 mm (¹⁷/₃₂)

Surface-mounted running track installation

Integration in suspended ceilings, with ceiling lug profiles



guide and fixed glass in a continuous sunken floor profile.

Two-part, rattle-proof floor guide and stationary element made of wood or other materials.



Hawa Puro 100/150, set without running track

	code
Hawa Puro 100, set for 1 glass sliding door, ESG ¹ /VSG ²	21141
Hawa Puro 150, set for 1 glass sliding door, ESG ¹ /VSG ²	21111
For two-panel sliding doors please order two sets for single doors.	

Set comprising

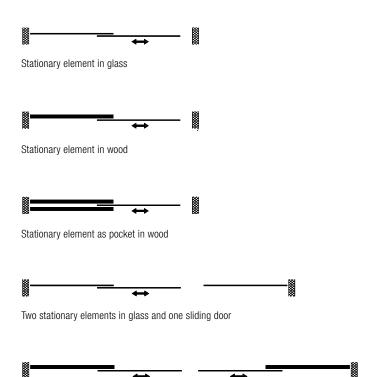
		21141	21111	code
C. C. L. L.	Four-wheeled trolley, with plastic-tyred ball bearing wheels	2		21190
	Six-wheeled trolley, with plastic-tyred ball bearing wheels		2	21191
A O O	Suspension wedges for glass mounting, set for 1 door	1	1	21193
A CONTRACTOR	Track stop, 1 pair	2	2	21319
<u> <u> </u></u>	Set of screws for mounting U-profile, 3,5 x 9,5 mm $\left(\frac{5}{32}$ x $\frac{3}{8}$ "), set of 25 pieces	1	1	21128
	Hex key, 3 mm ($\frac{1}{8}$ ") short version	1	1	10785

Glass fixing parts

		glass thickness mm/inch	code	
Par			21194	
(FO	Glass fixing parts for 1 sliding door, ESG ¹		10 (¹³ / ₃₂ ")	21195
		12 (12,7) (¹⁵ / ₃₂ // ¹ / ₂ ")	21196	
El an	Glass fixing parts for 1 sliding door, VSG ² , incl. single use drilling jig	$8,0-8,4$ $\left(\frac{5}{16},-\frac{11}{32},\right)$	21481	
		8,5-10,4 (11"-13")	21390	
		10,5–13,0 ($\frac{13}{32}$ – $\frac{17}{32}$)	21197	

Possible combinations

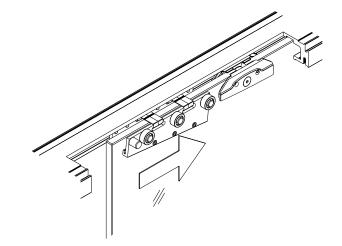
Flexible combination options with one-sided stationary elements in wood or glass and two-sided sliding door pockets in wood.



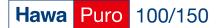
Two stationary elements in wood and two sliding doors

Wedge suspension for glass sliding doors

The new, patent-pending wedge suspension sets new standards with regard to the ease and speed of fitting and adjusting the height of sliding glass doors.



7



Running track sets to Hawa Puro 100/150

	Caution: - Hole positions vary - Minor differences in colour are possible		code
	Running track set, alu plain	2500 (8'2 ⁷ / ₁₆ ")	20864
	nici. u-prome and cover	3500 (11'5 ₁₆ ")	20863
1		6000 (19'8 ₃₂ ")	21123
	Running track set, alu plain anodized, predrilled, incl. u-profile and cover profile, alu unanodized	6000 (19'8 ⁷³² ")	20857
	Running track set, alu stainless steel effect.	2500 (8'2 ⁷ / ₁₆ ")	20867
	brushed, predrilled, incl. u-profile and cover profile, alu stainless steel effect	3500 (11'5 ¹³ ")	20866
		6000 (19'8 ⁷ 32")	20182

Running track sets comprising

		mm/ inch	20864	20863	21123	20857	20867	20866	20182	code
		2500 (8'2 ⁷ / ₁₆ ")	1							21142
	plain anodized	3500 (11'5 13")		1						21143
Running track, predrilled,		6000 (19'8 <u>3</u> ")			1	1				21110
alu	ataiplaga	2500 (8'2 ⁷ / ₁₆ ")					1			21317
	stainless steel effect, brushed	3500 (11'5 13")						1		21316
	brusned -	6000 (19'8 ₃₂ ")							1	21144
		2500 (8'2 ⁷ / ₁₆ ")	2							21363
U-profile for fixing stationary section, predrilled,	plain anodized	3500 (11'5 ¹³ ")		2						21361
		6000 (19'8 ⁷ 32")			2					21352
	unanodized	6000 (19'8 <u>32</u> ")				2				21354
to running track, alu	stainless steel effect, brushed	2500 (8'2 ⁷ / ₁₆ ")					2			21364
		3500 (11'5 ¹³ ")						2		21362
		6000 (19'8 <u>3</u> ")							2	21353
		2500 (8'2 ⁷ / ₁₆ ")	2							20865
	plain anodized	3500 (11'5 13")		2						21230
		6000 (19'8 ^{-7_} 32")			2					21229
Cover profile to u-profile, alu	unanodized	6000 (19'8 ^{7/32} ")				2				20855
	atainlasa	2500 (8'2 ⁷ / ₁₆ ")					2			21315
	stainless steel effect, brushed	3500 (11'5 ¹³ ")						2		21314
	brushou	6000 (19'8 <u>3</u> ")							2	21283

Running track profiles cut to size

Caution: - Hole positions vary - Minor differences in colour are possible				
- Millor ullielences il colour are possible				
///	Running track, predrilled,		21145	
	alu, cut to size	stainless steel effect, brushed	21318	
	U-Profile for fixing stationary section, predrilled, to running track, alu, cut to size	plain anodized	21365	
		section, predrilled, to running	unanodized	21367
				stainless steel effect, brushed
			19548	
	Cover profile to u-profile,	unanodized	20856	
	alu, cut to size		21284	

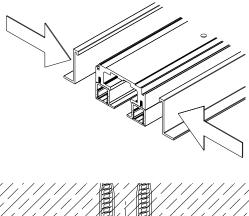
Ceiling joint profiles

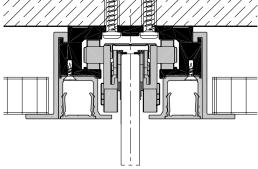
Caution: Minor differen	nces in colour are possible	mm/inch	code
		2500 (8'2 ⁷ / ₁₆ ")	21151
	Ceiling joint profile, alu plain anodized,	3500 (11'5 ¹³ ")	21149
	to running track	6000 (19'8 ⁷ / ₃₂ ")	21250
		cut to size	21152
	Ceiling joint profile, alu unanodized, to running track	6000 (19'8 ₃₂ ")	21037
		cut to size	21127
	Ceiling joint profile, alu, stainless steel effect, brushed, to running track	2500 (8'2 ⁷ / ₁₆ ")	21321
		3500 (11'5 ¹³ ")	21320
		6000 (19'8 ⁷ / ₃₂ ")	21150
		cut to size	21322

Integration in suspended ceilings

Ceiling joint profiles for running tracks enable simple designs for suspended lightweight ceilings. They are delivered as individual components.

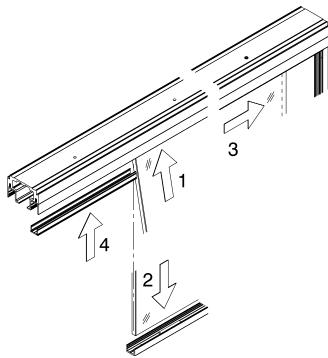
Maximum load per metre of ceiling joint profile: 15 kg/m.

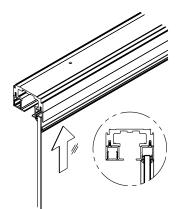




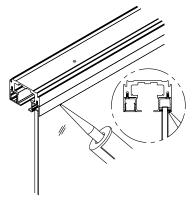


Fitting of fixed glass





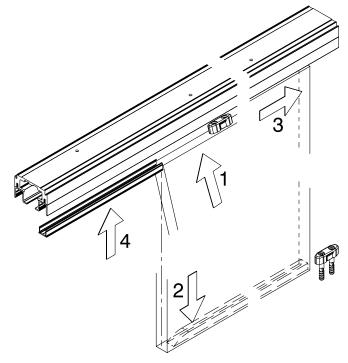
Dry glazing with the Hawa rubber profile. Attention: to be used on both sides, i.e. order double the amount.



Silicone glazing provided by the customer.

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

Fitting of stationary element in wood

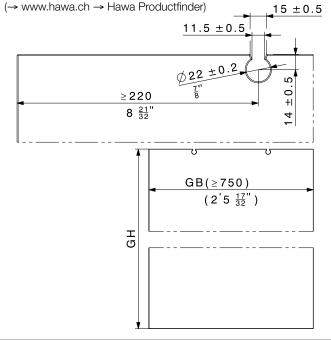


Glass cutouts

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): $8/10/12/12,7 \text{ mm} \left(\frac{5}{10} \frac{m/32}{12} \frac{m/32}{12} \frac{m/2}{12}\right)$, thickness tolerance ± 0,3 mm
- Glass thickness sliding door VSG (fully tempered laminated glass): 2x4 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm 2x5 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm 2x6 ± 0,2 mm → 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 (³/₃₂") in the glass cutout
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass) 8–12mm (⁵/₁₆⁻¹⁵) with silicone up to 13 mm (¹⁷/₁₃)

Please use assembly instructions number 21133 for detailed glass calculations and to order glass elements.





Wall connection profile

Caution: Minor differen	nces in colour are	possible	mm/inch	code	
11 P	plain		plain	2500 (8'2 ⁷ / ₁₆ ")	17020
	Wall profile,	anodized	3500 (11'5 ¹³ ")	17021	
	alu, undrilled	stainless	2500 (8'2 ⁷ / ₁₆ ")	20119	
	steel effect, – brushed	3500 (11'5 ¹³ ")	20120		
	Seal profile, black, for wall profile		roll of 2500 (8'2 716")	16452	
			roll of 3500 (11'5 ₁₆ ")	16453	
00000000000000000000000000000000000000	Centering assem for all glass slidi to wall profile	,		18663	
	Centering assembly grey for all glass sliding doors			18619	

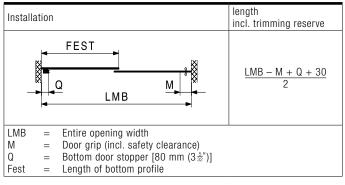
Bottom, wall and rubber profile to fixed glass

	Caution: - Hole positions vary - Minor differences in colour are possible		code
	Bottom/wall profile to fixed		19549
	glass, alu, plain anodized,	6000 (19'8 ^{7/32} ")	19561
	predrilled	cut to size	20067
	Bottom/wall profile to fixed glass, alu, stainless steel effect, brushed, predrilled	4000 (13'1 ¹ / ₂ ")	21285
		6000 (19'8 ^{7/32} ")	21286
		cut to size	21287
	Rubber profile, black to fixed glass $8-9.9 \text{ mm} \left(\frac{5}{16}, -\frac{139}{32}\right)$		25787
	Rubber profile, black to fixed glass $10-12 \text{ mm} \left(\frac{13^{u}}{32}-\frac{15^{u}}{32}\right)$	roll of 10 m (32'9⅔")	25789
	Rubber profile, black to fixed glass $12.1 - 13.1 \text{ mm} \left(\frac{15^{\mu}}{32} - \frac{17^{\mu}}{32}\right)$		25763

Nominal order length for straight bottom profile

Approximate lengths for ordering floor profiles for fixed glass elements can be calculated as follows:

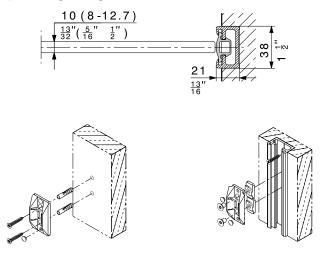
Nominal order length for straight bottom profile



Refer to assembly instructions code 21133 for further calculation formulas. (\rightarrow www.hawa.ch \rightarrow Hawa Productfinder)

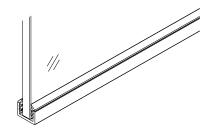
Wall connection profile

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



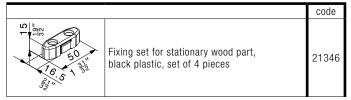
Bottom/wall profile to fixed glass

The retention profile provides stability for the fixed glass element, whether mounted on or sunk into the floor.



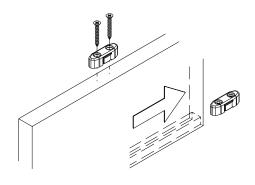


Fixing set for stationary wood



Fixing set for stationary wood

The fixing set is needed to secure stationary elements made of wood or other materials. Fixing brackets are screwed to the top of the stationary element and to the floor.

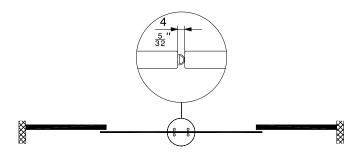


Rubber profile for glass edge protection

		roll of	code
	Rubber profile self-adhesive,	5 m (16'4 ²⁷ ")	19442
	for 8/10 mm $\left(\frac{5}{32}^{"}/\frac{139}{32}\right)$ glass thickness, black, glass distance 4 mm $\left(\frac{5}{32}^{"}\right)$	10 m (32'9 $\frac{23}{32}$ ")	19443
		50 m (164' ¹ / ₂ ")	19444
	Rubber profile self-adhesive, for 8/10 mm $\left(\frac{5}{16} \frac{y}{120}\right)$ glass thickness, translucent, glass distance 4 mm $\left(\frac{5}{52}\right)$	5 m (16'4 ²⁷ ")	19445
¥		10 m (32'9 ²³ ")	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.



Vertical sealing profile

Caution: Minor differe	Caution: Minor differences in colour are possible				
	Vertical seal 13/18,	plain	2500 (8'2 ⁷ / ₁₆ ")	20283 20284 21290	
	alu, for all-glass sliding doors with fixed glass, set for glass distance $13-18,5 \text{ mm}\left(\frac{32}{2}-\frac{3}{4}\right)$ Vertical seal 18/20, alu, for all-glass sliding doors with fixed glass, set for glass distance	anodized	3500 (11'5 ¹³ ")	20284	
		stainless	2500 (8'2 ⁷ / ₁₆ ")	21290	
		steel effect, brushed	3500 (11'5 ¹³ ")	21291	
		plain	2500 (8'2 ⁷ / ₁₆ ")	21246 21247	
		anodized	3500 (11'5 ¹³ ")		
		stainless	2500 (8'2 ⁷ / ₁₆ ")	21335	
	18–20,5 mm (32 – 13")	steel effect, brushed	3500 (11'5 ¹³ ")	21336	

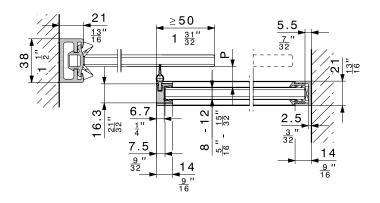
Glass distance «P» for vertical sealing profile

System	Glass thickness sliding door	Vertical seal	Glass distance «P»
Hawa Puro 100/150	$\frac{11-13 \text{ mm}}{\binom{7}{16}-\frac{17}{32}}$	13/18	$13-18,5 \text{ mm} \ (\frac{17}{32}^{n}-\frac{3}{4}^{n})$
	$\begin{array}{c} 8-10 \text{ mm} \\ \left(\frac{5}{16}, -\frac{13}{32}, \right) \end{array}$	18/20	$\substack{18-20,5 \text{ mm} \\ \binom{23}{32}^{u} - \frac{13}{16}^{u}}$

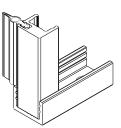
Subject to modification. Metric specifications are exact. Inches are approximate

Vertical sealing profile

The vertical sealing profile is effective against draughts. The slim aluminium profile affixes frontally to glass elements $8-12 \text{ mm} \left(\frac{5}{16}^{-}-\frac{15^{\circ}}{32^{\circ}}\right)$ thick using silicone adhesive. The two-part rubber seal is recessed into the profile and offers three advantages: it slides almost noiselessly, creates minimal resistance to motion and, compared to conventional brush seals, retains its impeccable looks throughout years of service.



The vertical sealing profile is inserted into the floor/wall profile for fixed glass elements.



11

Hawa Puro 100/150

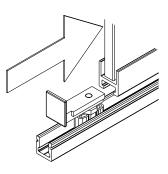
Floor-mounted guides / Bottom door stop

Caution: Minor differences in colour are possible		mm/inch	code	
	Glass retention	plain	6000 (19'8 ⁷ / ₃₂ ")	21402
	profile for floor guide, alu, for glass thickness $8-13 \text{ mm} \left(\frac{5}{16} - \frac{17}{32}\right)$	anodized	cut to size	21404
		stainless steel effect,	6000 (19'8 ⁷ / ₃₂ ")	21405
		brushed	cut to size	21403
	Bottom guide channel, alu, predrilled 16 x 16 mm $\left(\frac{5}{8}^{"} x \frac{5}{8}^{"}\right)$		3500 (11'5 ¹³ ")	18864
		plain anodized	6000 (19'8 ⁷ / ₃₂ ")	18216
			cut to size	18477
	Floor guide, screw mounting, rattle	plain anodized		21406
	proof, alu, for glass retention profile	stainless ste	21159	
e	Rattle-proof floor guide 2-part, inc. self-adhesive sliders for satinised glass, glass thickness $8-13 \text{ mm} \left(\frac{5}{16} - \frac{17\pi}{32}\right)$	dull chromiu	21029	
		stainless ste	20858	
	Bottom door stop with centering	dull chromium finish		20773
	assembly	stainless ste	21473	

Patents

Floor guide variants

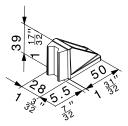
Doors can travel free of play through a continuous two-part floor guide. We recommend the continuous guide profile for doors wider than approx. 1500 mm to achieve optimum stability and best possible sliding properties. Furthermore, sliding doors should be stopped simultaneously at the top and bottom. The bottom door stopper does the job quietly and is gentle to the hardware.





Rattle-proof floor guide, continuous

Rattle-proof floor guide, 2-part



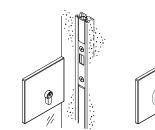
Bottom door stop with centering assembly

Better safe than sorry

Thanks to its combined aesthetic and security appeal, the Hawa Toplock for all-glass sliding doors makes the ideal solution. Details: \rightarrow Hawa Toplock



Hawa Toplock with countercasing



Hawa Toplock with wall profile and seal profile, black 16452/16453.

Hawa Adapto 100/150 P for Hawa Puro 100/150

	mm/inch	code
Hawa Adapto 100/150 P, inset profile for concrete surface, set for Hawa Puro 100/150	2500 (8'2 ⁷ / ₁₆ ")	21446
	3500 (11'5 ¹³)	21447
	6000 (19'8 ⁷ / ₃₂ ")	21448

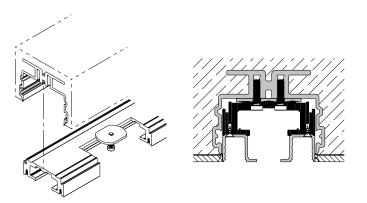
Set comprising

		mm/inch	21446	21447	21448	code
	Hawa Adapto 100/150 P inset profile for concrete surface, alu	2500 (8'2 ⁷ 16")	1			21157
		3500 (11'5 ^{13"})		1		21156
		6000 (19'8 ⁷ / ₃₂ ")			1	21154
	Hawa Adapto 100/150 P polystyrene insert	1000 (3'3 ³ /8")	2	3	6	21399
		500 (1'7 ^{11"})	1	1		21400
	Hawa Adapto 100/150 P assembly clips, plastic black		4	5	7	21350
Contraction of the second seco	Hawa Adapto 100/150 P cover plate, plastic grey		2	2	2	21343



Easy installation of Hawa Puro running tracks

The Hawa Adapto 100/150 P profile has two screw ducts. Hawa Puro running tracks can be attached via the screw duct with special adjustable screws (cheese head screws). Dimensional differences in the structure can be quickly and effectively levelled out by inserting spacing plates at the track ends, with additional plates in the centre for lengths of more than 3,5 m (11'5 $\frac{13}{16}$).



Please observe when designing

The Hawa Adapto 100/150 P profile must be fitted exactly to the shuttering.

For planning and installation purposes, please use the installation drawing code 21119. (\rightarrow www.hawa.ch \rightarrow Hawa Productfinder)

Fitting sets to Hawa Adapto 100/150 P

	mm/inch	code
Fitting sets to Hawa Adapto 100/150 P	to 2500 (8'2 ⁷ / ₁₆ ")	21323
	2501 to 3500 (8'2 $\frac{15"}{32}$ to 11'5 $\frac{13"}{16}$)	21324
	3501 to 6000 (11'5 $\frac{27}{32}$ " to 19'8 $\frac{7}{32}$ ")	21325

Sets comprising

		mm/ inch	21323	21324	21325	code
Land State	Distance plate, plastic	1 (¹ / ₁₆ ")	4	4	5	19398
Land States		2 (³³ / ₃₂ ")	4	4	5	19399
A CONTRACT OF THE OWNER		3 (¹ / ₈ ")	4	4	5	19400
and the second s		5 (⁷ /32")	4	4	5	19401
CARAMANA CARAMANA	Special pan head screws, 6 x 22 mm $(\frac{1}{4}^{w} x \frac{7}{8}^{w})$, set of 10 pieces		1	2	3	20215

Order specifications

- Type and quantity of sets
- Type and quantity of glass fixing parts
- Type and quantity of running track sets
- Type and quantity of floor-mounted guides

Optional order specifications

- Type and quantity of Hawa Adapto 100/150 P sets
- Type and quantity of Hawa Adapto 100/150 P fitting sets
- Type and quantity of ceiling joint profiles
- Type and quantity of bottom guide channel
- Type and length of rubber profile for glass edge protection
- Type and quantity of wall connection profile

Order specifications stationary sections

- Type and quantity of bottom/wall profile to fixed glass
- Type and quantity of rubber profile to fixed glass
- Type and quantity of vertical sealing profiles
- Quantity of fixing sets for stationary wood parts

Planning/installation

For planning and installation purposes, please use the installation drawing code 21133. (\rightarrow www.hawa.ch \rightarrow Hawa Productfinder)