



About Hawa AG

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

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

About this catalogue

Optimising space, creating rooms, solving problems, saving time – our hardware carries an impact that reaches far beyond its essential sliding, stacking and folding functionality. This catalogue provides you with detailed ordering information and technical data for our entire range of glass/metal folding and sliding hardware systems.

And should you have a specific requirement in the pipeline, please contact us – we are happy to be of help.

Find out about the rest of the Hawa range:

Architectural hardware wood

- Sliding doors
- Folding/Centre fold "Accordion" wall
- Wood sliding partitions
- Windows

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

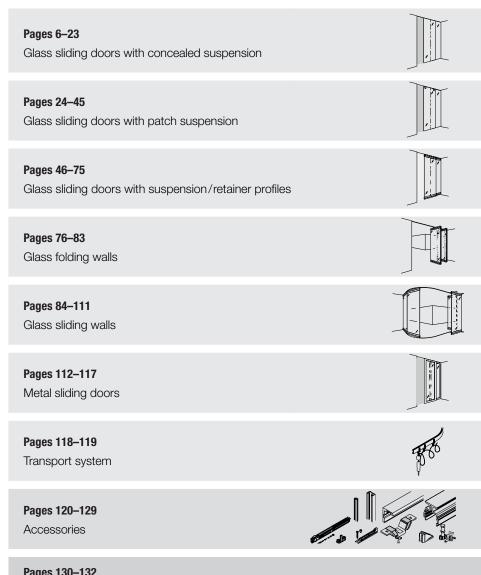
Hardware for folding and sliding shutters

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

Catalogue order no: 20896

Catalogue order no: 15625

Quality, Support and Service



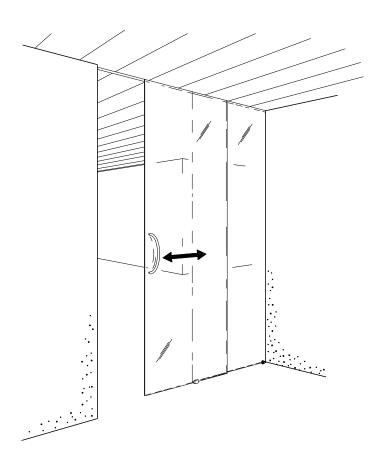
Pages 130-132

General Terms and Conditions (GTC) Always up-to-date – www.hawa.ch

H A W A -- Product index

| | Recomm | mended applica | ations in: | For exte | ernal use | Curved installations | Мо | ode of fixing |
|---|-----------------------|------------------|----------------------|--------------------|---------------|--|--------------|-----------------|
| | Residential buildings | Public buildings | Industrial buildings | Non coastal areas | Coastal areas | Minimum radius mm/inch | Wall fitting | Ceiling fitting |
| Glass sliding doors with concealed suspension | • | • | | | | | • | • |
| Glass sliding doors with patch suspension | • | • | | 0 | | | • | • |
| Glass sliding doors with suspension/retainer profiles | • | • | • | 0 0 0 0 0 0 | | 1000 (3'3 \frac{3}{8}") | • | • |
| Glass folding-/sliding walls | • | • | • | 0 0 0 0 0 0 | | 2000 (6'6 \(\frac{3}{4}\)") 4000 (13'1 \(\frac{1}{2}\)") 4000 (13'1 \(\frac{1}{2}\)") 4000 (13'1 \(\frac{1}{2}\)") | | • |
| Metal sliding doors | • | • | • | 0 | | 1000 (3'3 \frac{3}{8}") 4000 (13'1 \frac{1}{2}") | • | • |
| Transport system | | • | • | | | 500 (1'7'1") | | • |
| Accessories | • | • | • | 0 | | | • | • |
| Miscellaneous | • possible | under certain (| conditions | 2 80/120 kg | (176/264 lb | s.) 3 40/80/12 | 0 kg (88/176 | 6/264 lbs.) |

| | | | | | 1 | | | |
|---|--|--|--|--|--|------------------|---------------------|-------|
| | Roller | surface | www.h | awa.ch | | | | |
| Integration in concrete ceilings with HAWA-Adapto | Plastic roller surface (low track noise levels) | Steel roller surface (higher track noise levels) | HAWA-Productfinder → full information | HAWA-Systemplanner → planning and quoting | Hardware systems | | door weight | Page_ |
| • | • | | • | | HAWA-Puro 100–150 | 100/150 kg | 220/330 lbs. | 6 |
| • | • | | • | | HAWA-Purolino-PLUS 80 | 80 kg | 276 lbs. | 14 |
| 0 | • | | • | • | HAWA-Junior 40-80-120-160/GP | 40/80/120/160 kg | 88/176/264/352 lbs. | 24 |
| | | | • | | HAWA-Toplock (Lock for all-glass sliding door) | | | 32 |
| | • | | • | | HAWA-Ordena 70/P | 70 kg | 154 lbs. | 36 |
| | • | | • | | HAWA-Ordena 70/F | 70 kg | 154 lbs. | 40 |
| • | • | | • | • | HAWA-Junior 40-80/GS | 40/80 kg | 88/176 lbs. | 44 |
| • | • | | • | • | HAWA-Junior 40-80/GL | 40/80 kg | 88/176 lbs. | 46 |
| 0 | • | | • | • | HAWA-Junior 80-120-160/G | 80/120/160 kg | 176/264/352 lbs. | 54 |
| | • | | • | • | HAWA-Junior 250/G | 250 kg | 550 lbs. | 62 |
| | • | | • | • | HAWA-Telescopic 80/G | 80 kg | 176 lbs. | 66 |
| | • | | • | • | HAWA-Symmetric 80/G | 80 kg | 176 lbs. | 70 |
| | | • | • | | HAWA-Super 250/G | 250 kg | 550 lbs. | 72 |
| | | | | | | | | |
| | • | | • | • | HAWA-Variofold 80/GV | 80 kg | 176 lbs. | 76 |
| | • | | • | • | HAWA-Centerfold 80/GV | 80 kg | 176 lbs. | 80 |
| | • | | • | • | HAWA-Aperto 60/GL | 60 kg | 132 lbs. | 84 |
| | • | | • | • | HAWA-Variotec 150/GV | 150 kg | 330 lbs. | 92 |
| | • | | • | • | HAWA-Variotec 150/GR frame profile | 150 kg | 330 lbs. | 106 |
| | | • | • | | HAWA-Shopfront 400/G | 400 kg | 880 lbs. | 108 |
| | • | | • | | HAWA-Junior 80/M | 80 kg | 176 lbs. | 112 |
| | | • | • | | HAWA-Super 250/M | 250 kg | 550 lbs. | 114 |
| | | • | • | | HAWA-Super 500/M | 500 kg | 1100 lbs. | 116 |
| | • | | • | | HAWA-Varioflex 40/TS | 40 kg | 88 lbs. | 118 |
| • | | | • | | SoftMove for HAWA-Junior 40/80/120 NEW | 40/80/120 kg | 88/176/264 lbs. | 120 |
| | | | • | | Assembly set HAWA-Junior 40/80/120 NEW | 40/80/120 kg | 88/176/264 lbs. | 122 |
| | | | • | | HAWA-Adapto 80-120 | 80/120 kg | 176/264 lbs. | 124 |
| | | | | | Side-fixing angled profile | 40/80/120 kg | 88/176/264 lbs. | 126 |
| | | | • | | HAWA-SoundEx | 40/80/120 kg | 88/176/264 lbs. | 127 |
| | | | | | HAWA Assembly wedge | 120 kg | 264 lbs. | 128 |
| | | | | | Bottom guides/Bottom door stop | | | 129 |
| | | | | | Wall connection profile | | | 130 |
| | | | | | Rubber profile for glass edge protection | a final alara | | 130 |
| | | | | | Vertical sealing profile and bottom/wall profile t | o tixed glass | | 131 |
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| | | | | | | | | |



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.

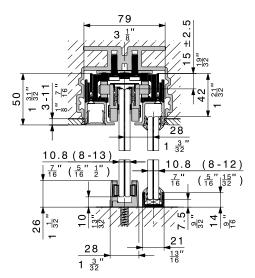
Features of the HAWA-Puro 100-150

- Maximum door weight 4-wheels, 100 kg (220 lbs.)
- Maximum door weight 6-wheels, 150 kg (330 lbs.)
- Minimum door width 750 mm (2'5¹⁷/₂₂")
- 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 mm (⁵/₁₅ "/³²/₁₂"/¹²")

VSG (fully tempered laminated glass): $8-12.7 \text{ mm} \left(\frac{5}{16} - \frac{1}{2}\right)$

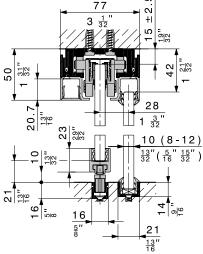
 Glass thickness fixed glass ESG (fully tempered monolithic glass)/
 VSG (fully tempered laminated glass): 8-12 mm (⁵/₁₆"-¹⁵/₃₂") with silicone up to 13 mm (¹⁷/₃₂")

Integration in concrete ceilings



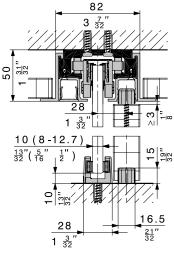
Two-part, rattle-proof floor guide and stationary element in a continuous surface-mounted floor profile.

Surface-mounted running track installation



Glass retention profile with rattle-proof floor guide and fixed glass in a continuous sunken floor profile.

Integration in suspended ceilings, with ceiling lug profiles



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 |
|-----------|---|-------|-------|-------|
| | Four-wheeled trolley, with plastic-tyred ball bearing wheels | 2 | | 21190 |
| | Six-wheeled trolley, with plastic-tyred ball bearing wheels | | 2 | 21191 |
| 1000 | Suspension wedges for glass mounting, set for 1 door | 1 | 1 | 21193 |
| | Track stop, 1 pair | 2 | 2 | 21319 |
| * A TABLE | Set of screws for mounting U-profile, 3,5 x 9,5 mm $(\frac{5}{32}$ 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 |
|---------------|--|--|-------|
| | | 8 (5 16) | 21194 |
| (130°) | Glass fixing parts for 1 sliding door, ESG1 | 10 (33") | 21195 |
| | | 12 (12,7) $(\frac{15}{32}"/\frac{1}{2}")$ | 21196 |
| Et an | Glass fixing parts for | $8,0-8,4 \left(\frac{5}{16} - \frac{11}{32}\right)$ | 21481 |
| OF THE STREET | 1 sliding door, VSG ² , incl. single use drilling jig | 8,5-10,4 (11 - 13 - 13 - 13 - 13 - 13 - 13 - 13 | 21390 |
| | | 10,5-13,0 $\left(\frac{13}{32} - \frac{17}{32}\right)$ | 21197 |

Possible combinations

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



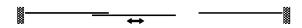
Stationary element in glass



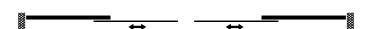
Stationary element in wood



Stationary element as pocket in wood



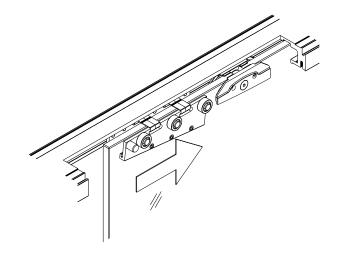
Two stationary elements in glass and one sliding door



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.



Running track sets to HAWA-Puro 100-150

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|---|---|-------|
| | Running track set, alu plain | 2500 (8'2 ⁷ / ₁₆ ") | 20864 |
| | anodized, predrilled, incl. u-profile and cover | 3500 (11'5 ¹³ / ₁₆ ") | 20863 |
| | profile, alu plain anodized | 6000 (19'8 ⁷ / ₃₂ ") | 21123 |
| | Running track set, alu plain anodized, predrilled, incl. u-profile and cover profile, alu unanodized | 6000 (19'8 ^{7"} / ₃₂) | 20857 |
| | Running track set, alu stainless steel effect, | 2500 (8'2 ⁷ / ₁₆ ") | 20867 |
| | brushed, predrilled, incl. | 3500 (11'5 ¹³ ") | 20866 |
| | u-profile and cover profile, alu stainless steel effect | 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 ⁷ / ₃₂ ") | | | 1 | 1 | | | | 21110 |
| alu | atainlass | 2500 (8'2 ⁷ / ₁₆ ") | | | | | 1 | | | 21317 |
| | stainless steel effect, brushed | 3500 (11'5 ¹³ ") | | | | | | 1 | | 21316 |
| | bradiloa | 6000 (19'8 ⁷ / ₃₂ ") | | | | | | | 1 | 21144 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 2 | | | | | | | 21363 |
| | plain anodized | 3500 (11'5 ¹³ ") | | 2 | | | | | | 21361 |
| U-profile for fixing | | 6000 (19'8 ⁷ / ₃₂ ") | | | 2 | | | | | 21352 |
| stationary section, predrilled, | unanodized | 6000 (19'8 ⁷ / ₃₂ ") | | | | 2 | | | | 21354 |
| to running track, alu | | 2500 (8'2 ⁷ / ₁₆ ") | | | | | 2 | | | 21364 |
| | stainless steel effect, brushed | 3500 (11'5 ¹³ ") | | | | | | 2 | | 21362 |
| | brusned | 6000 (19'8 ⁷ / ₃₂ ") | | | | | | | 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 |
| | atainlass | 2500 (8'2 ⁷ / ₁₆ ") | | | | | 2 | | | 21315 |
| | stainless steel effect, brushed | 3500 (11'5 ¹³ ") | | | | | | 2 | | 21314 |
| | brusned | 6000 (19'8 ⁷ / ₃₂ ") | | | | | | | 2 | 21283 |

Running track profiles cut to size

| Caution: - Hole positions vary - Minor differences in colour are possible | | | | |
|---|---|------------------------------------|-------|--|
| /// | Running track, predrilled, | plain anodized | 21145 | |
| | alu, cut to size | stainless steel effect, brushed | 21318 | |
| | | plain anodized | 21365 | |
| | U-Profile for fixing stationary section, predrilled, to running | unanodized | 21367 | |
| | track, alu, cut to size | stainless steel effect, brushed | 21366 | |
| | | plain anodized | 19548 | |
| | Cover profile to u-profile, | unanodized | 20856 | |
| | alu, cut to size | stainless steel effect, brushed | 21284 | |

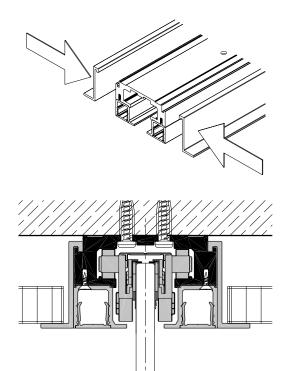
Ceiling joint profiles

| Caution: Minor differe | 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. | 6000 (19'8 ⁷ / ₃₂ ") | 21037 |
| | to running track | cut to size | 21127 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 21321 |
| | Ceiling joint profile, alu, stainless steel effect, | 3500 (11'5 13") | 21320 |
| | brushed, to running track | 6000 (19'8 ⁷ / ₃₂ ") | 21150 |
| | , , | cut to size | 21322 |

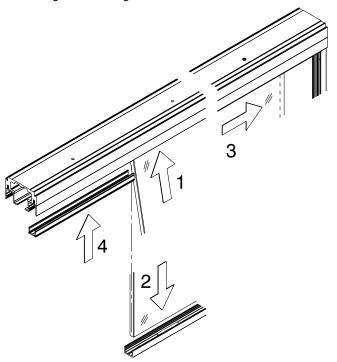
Integration in suspended ceilings

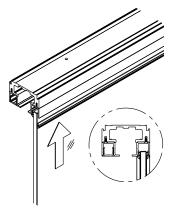
Ceiling joint profiles for running tracks enable simple designs for suspended lightweight ceilings. They are delivered as individual components.

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



Fitting of fixed glass

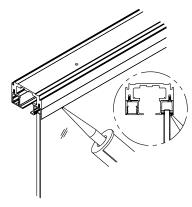




Dry glazing with the Hawa rubber profile.

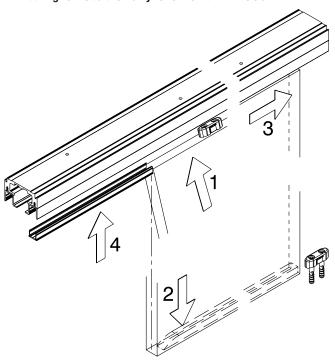
Attention:

to be used on both sides, i.e. order double the amount.



Silicone glazing provided by the customer.

Fitting of stationary element in wood

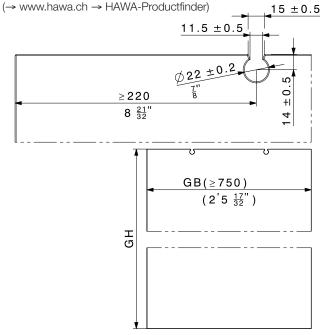


Glass cutouts

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 mm $(\frac{5}{32}/\frac{139}{32}/\frac{12}{32})$, thickness tolerance \pm 0,3 mm
- Glass thickness sliding door VSG (fully tempered laminated glass): 2×4 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm 2×5 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm 2×6 ± 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 $(\frac{3}{32}")$ in the glass cutout
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass) 8–12mm (⁵/₁₆"-¹⁵/₃₂") with silicone up to 13 mm (¹⁷/₃₂")

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



Wall connection profile

| Caution: Minor differences in colour are possible | | | mm/inch | code |
|---|--------------------|--------------------------|--|-------|
| | | 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, blad | ck, | roll of 2500 (8'2 ⁷ / ₁₆ ") | 16452 |
| for wall profile | | | roll of 3500 (11'5 13") | 16453 |
| Centering assembly black for all glass sliding doors, to wall profile | | | | 18663 |
| Centering assembly grey for all glass sliding doors | | | 18619 | |

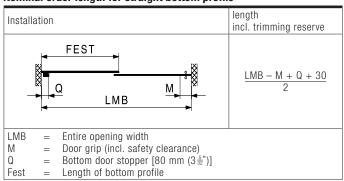
Bottom, wall and rubber profile to fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|---|--|-------|
| | Bottom/wall profile to fixed | 4000 (13'1 ¹ / ₂ ") | 19549 |
| | glass, alu, plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 19561 |
| | predrilled | cut to size | 20067 |
| | Bottom/wall profile to fixed | 4000 (13'1½") | 21285 |
| | glass, alu, stainless steel | 6000 (19'8 ⁷ / ₃₂ ") | 21286 |
| | effect, brushed, predrilled | cut to size | 21287 |
| | Rubber profile, black to fixed glass $8-9.9 \text{ mm} \left(\frac{5}{16}\text{"}-\frac{13}{32}\text{"}\right)$ | | 25787 |
| | Rubber profile, black to fixed glass $10-12 \text{ mm} \left(\frac{13}{32} - \frac{15}{32}\right)$ | roll of 10 m (32'9 ^{23"}) | 25789 |
| | Rubber profile, black to fixed glass 12.1–13.1 mm $(\frac{15^u}{32} - \frac{17^u}{32})$ | | 25763 |

Nominal order length for straight bottom profile

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

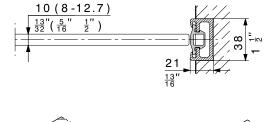
Nominal order length for straight bottom profile

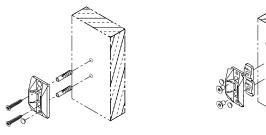


Refer to assembly instructions code 21133 for further calculation formulas. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

Wall connection profile

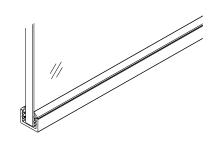
The ideal wall connection profile for all-glass sliding doors with unprotected glass edges.



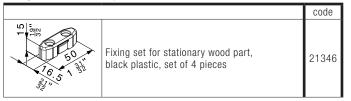


Bottom/wall profile to fixed glass

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

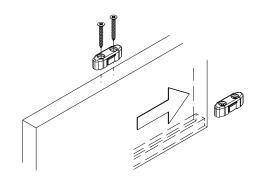


Fixing set for stationary wood



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.

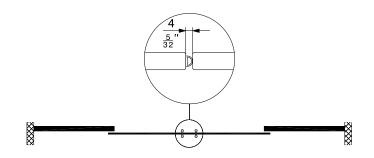


Rubber profile for glass edge protection

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

Rubber profile for glass edge protection

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

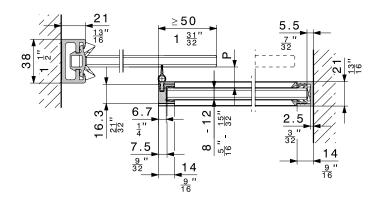


Vertical sealing profile

| Caution: Minor differe | ences in colour are possib | ole | mm/ inch | code |
|------------------------|---|----------------------------|--|-------|
| | Vertical seal 13/18, | plain | 2500 (8'2 ⁷ / ₁₆ ") | 20283 |
| | alu, for all-glass sliding doors wtih | anodized | 3500 (11'5 13") | 20284 |
| | fixed glass, set for glass distance $13-18,5 \text{ mm} \left(\frac{17}{32} - \frac{3}{4}\right)$ | stainless steel effect, | 2500 (8'2 ⁷ / ₁₆ ") | 21290 |
| | | brushed | 3500 (11'5 13") | 21291 |
| | Vertical seal 18/20, alu, for all-glass sliding doors with | plain | 2500 (8'2 ⁷ / ₁₆ ") | 21246 |
| | | anodized | 3500 (11'5 13") | 21247 |
| | fixed glass, set for glass distance | stainless | 2500 (8'2 ⁷ / ₁₆ ") | 21335 |
| | $18-20,5 \text{ mm } (\frac{23}{32} - \frac{13}{16})$ | steel effect, brushed | 3500 (11'5 ¹³ ") | 21336 |

Vertical sealing profile

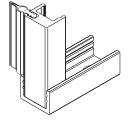
The vertical sealing profile is effective against draughts. The slim aluminium profile affixes frontally to glass elements 8–12 mm $(\frac{5}{16}"-\frac{15}{32}")$ thick using silicone adhesive. The two-part rubber seal is recessed into the profile and offers three advantages: it slides almost noiselessly,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



Glass distance «P» for vertical sealing profile

| System | Glass thickness sliding door | Vertical seal | Glass distance «P» |
|-------------------|------------------------------|------------------|---|
| HAWA-Puro 100–150 | 11–13 mm (7/16 – 17/32) | 13/18 | $13-18,5 \text{ mm}$ $\left(\frac{17}{32} - \frac{3}{4}\right)$ |
| HAWA-PUIO 100-150 | 8–10 mm (5/16 – 13/32) | 18/20 | 18-20,5 mm (²³ / ₃₂ "-13") |

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



Floor-mounted guides / Bottom door stop

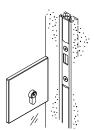
| Caution: Minor differen | nces in colour are pos | sible | mm/inch | code |
|---|---|------------------------|---|-------|
| // | Glass retention | plain | 6000 (19'8 ½") | 21402 |
| | profile for floor | anodized | cut to size | 21404 |
| | guide, alu, for glass thickness $8-13 \text{ mm} \left(\frac{5}{16}\text{"-}\frac{17}{32}\text{"}\right)$ | | 6000 (19'8 ⁷ / ₃₂ ") | 21405 |
| | | brushed | cut to size | 21403 |
| | Bottom guide | | 3500 (11'5 13") | 18864 |
| | channel, alu, predrilled 16 x 16 mm | plain anodized | 6000 (19'8 ½") | 18216 |
| | $\left(\frac{5}{8}^{"}X\frac{5}{8}^{"}\right)$ | | cut to size | 18477 |
| | Floor guide, screw mounting, rattle | plain anodize | ed | 21406 |
| | proof, alu, for glass retention profile | stainless ste | el effect | 21159 |
| | Rattle-proof floor guide 2-part, inc. self-adhesive sliders | dull chromiu | 21029 | |
| for satinised glass, glass thickness $8-13 \text{ mm} \left(\frac{5}{16}\text{"}-\frac{17}{32}\text{"}\right)$ stai | | stainless ste | el effect | 20858 |
| | Bottom door stop dull chromium finis | | | |
| with centering assembly sta | | stainless steel effect | | 21473 |

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



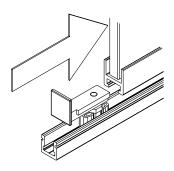
HAWA-Toplock with countercasing



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

Floor guide variants

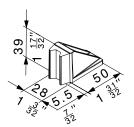
Doors can travel free of play through a continuous two-part floor guide. We recommend the continuous guide profile for doors wider than approx. 1500 mm to achieve optimum stability and best possible sliding properties. Furthermore, sliding doors should be stopped simultaneously at the top and bottom.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

HAWA-Adapto 100-150/P for HAWA-Puro 100-150

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

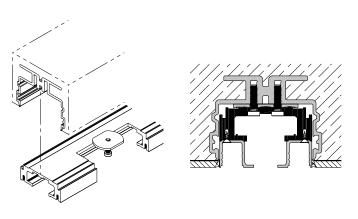
Set comprising

| | | mm/inch | 21446 | 21447 | 21448 | code |
|--|--|--|-------|-------|-------|-------|
| | HAWA-Adapto | 2500 (8'2 ⁷ 16") | 1 | | | 21157 |
| | 100–150/P inset profile for concrete surface, alu | 3500 (11'5 13") | | 1 | | 21156 |
| | alu | 6000 (19'8 ⁷ / ₃₂ ") | | | 1 | 21154 |
| | HAWA-Adapto 100–150/P polystyrene insert | 1000 (3'3 3") | 2 | 3 | 6 | 21399 |
| | | 500 (1'7 ¹¹ / ₁₆ ") | 1 | 1 | | 21400 |
| | HAWA-Adapto 100–150/P assembly clips, plastic black | | 4 | 5 | 7 | 21350 |
| Company of the Control of the Contro | 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 |
|---------------------------------------|--|-------|
| | to 2500 (8'2 ⁷ / ₁₆ ") | 21323 |
| Fitting sets to HAWA-Adapto 100–150/P | 2501 to 3500 (8'2 ¹⁵ / ₃₂ " to 11'5 ¹³ / ₁₆ ") | 21324 |
| TIAWA-Adapto 100-130/F | 3501 to 6000 (11'5 $\frac{27}{32}$ " to 19'8 $\frac{7}{32}$ ") | 21325 |

Sets comprising

| | | mm/ inch | 21323 | 21324 | 21325 | code |
|--|--|-------------------------------------|-------|-------|-------|-------|
| (In the state of t | | 1 (18") | 4 | 4 | 5 | 19398 |
| (Int 3, Int 3) | Distance plate, | 2 (32") | 4 | 4 | 5 | 19399 |
| | plastic | 3 (1/8") | 4 | 4 | 5 | 19400 |
| | | 5 (⁷ / ₃₂ ") | 4 | 4 | 5 | 19401 |
| anner. | Special pan head screws, $6 \times 22 \text{ mm } (\frac{1}{4} \times \frac{7}{8})$, 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

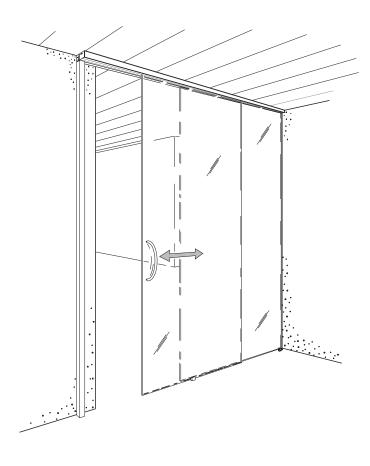
- Type and quantity of HAWA-Adapto 100-150/P sets
- Type and quantity of HAWA-Adapto 100-150/P fitting sets
- Type and quantity of ceiling joint profiles
- Type and quantity of bottom guide channel
- Type and length of rubber profile for glass edge protection
- Type and quantity of wall connection profile

Order specifications stationary sections

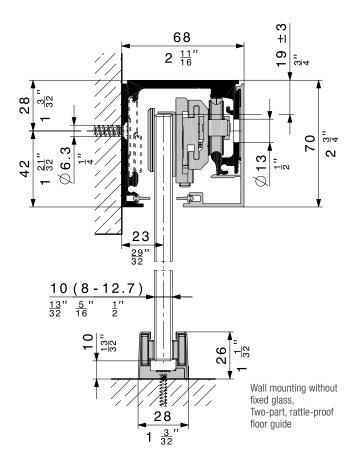
- Type and quantity of bottom/wall profile to fixed glass
- Type and quantity of rubber profile to fixed glass
- Type and quantity of vertical sealing profiles
- Quantity of fixing sets for stationary wood parts

Planning/installation

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



Example of application: wall mounting



Greatest possible transparency.

Hardware system for all-glass sliding doors with concealed suspension, weighing up to 80 kg (176 lbs.).

Description

HAWA-Purolino-PLUS 80: the sophisticated hardware system for all-glass sliding doors with concealed suspension for mounting to the wall or ceiling or integrating in the ceiling offers not only outstanding sliding convenience but also exemplary ease of installation. There are many reasons that make sliding solutions based on the HAWA-Purolino-PLUS 80 a pure pleasure. The high-quality ball-bearing technology incorporated in each trolley, for instance, allows you to move doors weighing up to 80 kg quietly and effortlessly on anodized running tracks. During installation, you will benefit from advantages such as the two-part, point-fixing and rattle-proof floor-mounted guide, the simple clip-on cover and screen profiles and the suspension wedges. The word «PLUS» stands for the optionally available soft closing mechanism SoftMove 80 for the HAWA-Purolino-PLUS 80, as well as for the fixed glass profile that guarantees a convenient option for room partitioning solutions when bolted to the running track. There are also optional additional profiles for vertical wall connections and for locking the installation with the HAWA-Toplock for all-glass sliding doors.

Applications

Ideal for situations incorporating glass as room partitioning and design elements, for instance in hotels, restaurants, retirement residences, conference rooms, administration buildings and private residences.

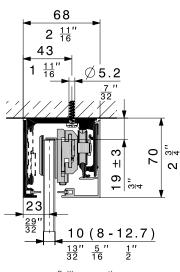
Features of the HAWA-Purolino-PLUS 80

- Maximum door weight 80 kg (176 lbs.)
- Minimum door width
 - without soft closing mechanism SoftMove 80: 600 mm (1'11 $\frac{5}{8}$ ") with SoftMove 80, two-sided damping: 850 mm (2'9 $\frac{15}{80}$ ")
- Trolleys with high-quality ball bearing technology
- Glass suspension technology completly integrated in the running track
- Fast installation and height adjustment thanks to suspension wedges
- · Glass doors with a interlocking connection to the hardware
- Surfaces of running tracks, fixed glass profiles and cover profiles available in plain anodized or stainless-steel effect
- Removable cover and screen profiles
- Fixed glass profile attachable to the running track
- High-quality metal cover caps for the face side of running tracks without fixed glass elements
- Combinable with a vertical wall profile and a HAWA-Toplock
- Glass thickness sliding door
 ESG (fully tempered monolithic glass):
 8/10/12/12,7 mm (\frac{5}{16}\frac{7}{32}\frac{32}{2}\frac{7}{2}\frac{1}{2}\frac{7}{2}\)
 VSG (fully tempered laminated glass): 8-12,7 mm (\frac{5}{16}\frac{1}{2}\frac{1}{2}\)
- Glass thickness fixed glass:
 ESG (fully tempered monolithic glass) and
 VSG (fully tempered laminated glass) 8–12 mm (⁵/₁₆"-¹⁵/₃₂")
 [with silicon up to 13 mm (¹⁷/₂₀")]

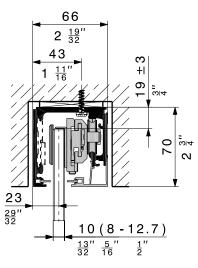
Further application examples

The HAWA-Purolino-PLUS 80 is ideal for mounting to the wall and ceiling and also for recessed ceiling applications. The two ceiling-mounting variants can be designed with or without fixed glass elements. The relevant components such as trolley, track stop and SoftMove 80 can be fitted and removed from underneath on every design option.

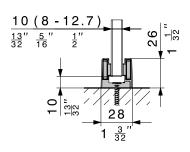
HAWA-Purolino-PLUS 80 makes an aesthetically appealing impression all round thanks to the cover and screen profiles that simply clip on when installation is complete.



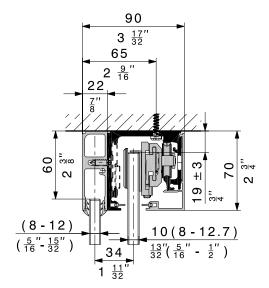
Ceiling mounting without fixed glass



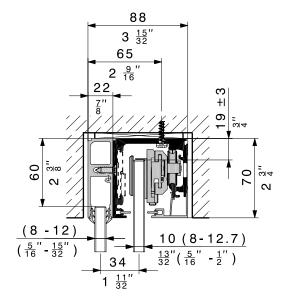
Integrated ceiling mounting without fixed glass



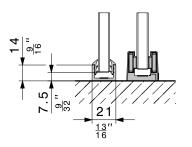
Two-part, rattle-proof floor guide



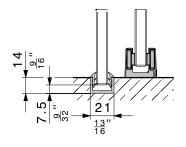
Ceiling mounting with profile for fixed glass



Integrated ceiling mounting with profile for fixed glass



Surface mounted bottom/wall profile to fixed glass, two-part, rattle-proof floor guide



Recess mounted bottom/wall profile to fixed glass, two-part, rattle-proof floor guide

HAWA-Purolino-PLUS 80, set without running tracks

| | code |
|--|-------|
| HAWA-Purolino-PLUS 80, set for 1 panel, fully tempered monolithic glass, anodised, no soft closing mechanism | 25549 |
| HAWA-Purolino-PLUS 80, set for 1 panel with 1 soft closing mechanism | 25550 |
| HAWA-Purolino-PLUS 80, set for 1 panel, fully tempered monolithic glass, stainless steel effect, no soft closing mechanism | 25551 |
| HAWA-Purolino-PLUS 80, set for 1 panel, fully tempered monolithic glass, stainless steel effect, soft closing mechanis | 25552 |

Set comprising

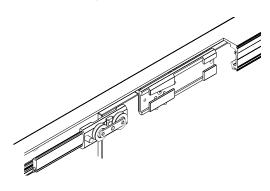
| | | | 25549 | 25550 | 25551 | 25552 | code |
|-----|--|--|-------|-------|-------|-------|-------|
| 565 | Two-wheeled trolley legistic-tyred ball bear | | 1 | 1 | 1 | 1 | 23941 |
| | Two-wheeled trolley r plastic-tyred ball bear | | 1 | 1 | 1 | 1 | 23942 |
| | Suspension wedges for glass mountig, left | or | 1 | 1 | 1 | 1 | 23939 |
| | Suspension wedges for glass mountig, right | or | 1 | 1 | 1 | 1 | 23940 |
| | Track stop, adjustable retaining force, left | 9 | 1 | 1 | 1 | 1 | 23874 |
| | Track stop, adjustable retaining force, right | | 1 | 1 | 1 | 1 | 23875 |
| | Glass fixing parts for fully tempered monolithic glass, thickness 8, 10, 12 (12,7) mm | | 1 | 1 | 1 | 1 | 25553 |
| | Glass connector, com | plete | - | 1 | - | 1 | 23747 |
| | SoftMove 80 for HAW | Soft closing mechanism SoftMove 80 for HAWA-Purolino- PLUS 80, two-sided damping | | 1 | _ | 1 | 23880 |
| | Trigger cams, complete, left or right mountable | | _ | 2 | _ | 2 | 24161 |
| | Rattle-proof floor guide 2-part, incl. self-adhesive sliders for | matt chromium finish | 1 | 1 | - | _ | 21029 |
| | satinised glass, glass thickness $8-13 \text{ mm} \left(\frac{5}{16} - \frac{17}{32}\right)$ | stainless- steel effect | _ | _ | 1 | 1 | 20858 |

Glass fixing parts

| | | mm | code |
|-----|---|-------|-------|
| 060 | Accessories HAWA-Purolino- | 2 x 4 | 25554 |
| | PLUS 80, fully tempered laminated glass | 2 x 5 | 25555 |
| | | 2 x 6 | 25556 |

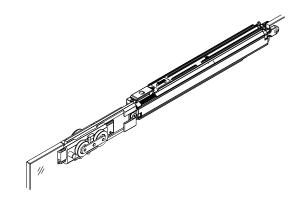
Suspension wedges for glass sliding doors

The suspension wedges set new standards with regard to ease and speed when installing and adjusting the height of glass sliding doors. Firstly, because the wedges simply slide into the trolleys; secondly, because the soft closing mechanism SoftMove 80 for the HAWA-Purolino-PLUS 80 attaches to the left-hand suspension wedge with no need for additional components.



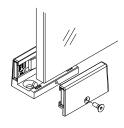
Soft closing mechanism SoftMove 80 for HAWA-Purolino-PLUS 80

The soft closing mechanism SoftMove 80 gently decelerates and closes sliding doors equipped with HAWA-Purolino-PLUS 80. Integrated completely in the running track, the soft closing mechanism SoftMove 80 gently decelerates the sliding doors and pulls them into the end position.



Bottom door stop

The sliding doors have a two-part, rattle-proof floor guide.



Running track set, wall mounting without fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | | mm inch | code |
|---|---|--|--|-------|
| | Running track set for wall mounting, predrilled, incl. angled | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 24151 |
| | cover profile, alu, screen profile, rubber black | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 24152 |

Running track set, ceiling mounting without fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | | mm inch | code |
|---|--|--|--|-------|
| | Running track set for ceiling mounting without fixed glass, | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 24153 |
| | predrilled, incl. angled cover profile, alu, screen profile, rubber black | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 24154 |

Running track set, ceiling mounting (with fixed glass)

| Caution: - Hole positions vary - Minor differences in colour are possible | | | | code |
|--|---|--|--|-------|
| mounting and fixed | | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 24157 |
| | glass profile, incl. angled cover profile, alu, screen profile, rubber black | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 24158 |
| Profile for fixed glass | to order separately | | | |

Running track set, integrated ceiling mounting (with/without fixed glass)

| Caution: - Hole positions vary - Minor differences in colour are possible | | | | code |
|--|--|--|--|-------|
| | Running track set, predrilled for integrated ceiling mounting and | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 24155 |
| | fixed glass profile, incl. lower cover profile, alu, screen profile, rubber black | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 24156 |
| Profile for fixed glass | to order separately | | | |

Trome for fixed glass to order separately

Bottom door stop

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

Wall or ceiling mounting without fixed glass

The running track is pre-drilled for wall or ceiling mounting; the angled cover profile is clipped on after installation.



Wall mounting: Running track without fixed glass, dressing with angled cover profile

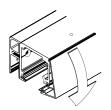


Ceiling mounting: Running track without fixed glass, dressing with angled cover profile

Ceiling mounting with fixed glass

The running track in the running track set for ceiling mounting has drill holes on two sides. Those on the top are for mounting to the ceiling and those on the side are for attaching the fixed glass profile (to be ordered separately).

The angled cover profile is clipped to the running track and fixed glass profile once they are attached to the ceiling.

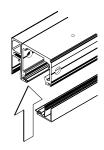


Ceiling mounting: Running track with fixed glass and dressing with angled cover profile

Integrated ceiling mounting with/without fixed glass

This running track set (running track drilled on two sides) is used for recessed ceiling installations with and without fixed glass elements. The profile for fixed glass elements (to be ordered separately) is attached to the running track with special countersunk screws.

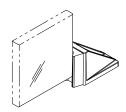
The clip-on cover profile is attached to the running track (with or without a fixed glass profile) from below after it is fitted in the ceiling.



Integrated ceiling mounting: Running track with fixed glass and dressing with lover cover profile

Bottom door stop

The bottom door stop and track stop simultaneously bring the sliding doors to a halt, quietly and with no strain on the hardware.



Running track, wall mounting without fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code | |
|---|--|---|--|-------|
| Running track with cutout, predrilled for wall mounting, alu | with cutout, | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 23841 |
| | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 23842 | |
| | Running track, predrilled for | plain | 6000 (19'8 ⁷ / ₃₂ ") | 23833 |
| | | anodized | cut to size | 23834 |
| wall me | wall mounting, | stainless- steel effect. | 6000 (19'8 ⁷ / ₃₂ ") | 23835 |
| | alu | | cut to size | 23836 |

Running track, ceiling mounting without fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code | |
|---|--------------------------|--|---|-------|
| Running track with cutout, predrilled for ceiling mounting, alu | | plain anodized | 2500 (8'27") | 23843 |
| | mounting, | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 23844 |
| Running track, | plain | 6000 (19'8 ⁷ / ₃₂ ") | 23837 | |
| | predrilled | anodized | cut to size | 23838 |
| for ceiling mounting, alu | stainless- | 6000 (19'8 ⁷ / ₃₂ ") | 23839 | |
| | steel effect, brushed | cut to size | 23840 | |

Running track, ceiling mounting (without/for fixed glass)

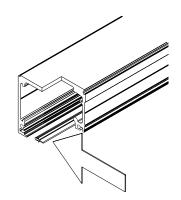
| Caution: - Hole positio - Minor differ | ns vary ences in colour a | re possible | mm/inch | code | |
|---|---|---|--|-------------|--|
| / min outout, | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 24120 | | |
| | grated ceiling mounting as well as fixed glass profile, alu | stainless- steel effect, brushed | 2500 (8'2 ⁷ 18') | 24121 | |
| | Running track, | plain | 6000 (19'8 ⁷ / ₃₂ ") | 24118 | |
| | ceiling and inte- grated ceiling - mounting as well as fixed glass | ceiling and integrated ceiling mounting as well | anodized | cut to size | 24122 |
| | | | mounting as well stain | stainless- | 6000 (19'8 ⁷ / ₃₂ ") |
| | | steel effect, brushed | cut to size | 24123 | |
| Profile for fixed glass | to order separatel | у | | | |

Cover and screen cover profile for running track

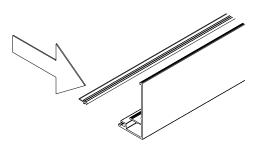
| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code | |
|---|--|---|--|-------|
| | | a la in | 2500 (8'2 ⁷ / ₁₆ ") | 23810 |
| | Angled cover | plain anodized | 6000 (19'8 ⁷ / ₃₂ ") | 23811 |
| | profile for running track, alu stainless- steel effect, | unouizou | cut to size | 23816 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 23817 | |
| | | steel effect, brushed | 6000 (19'8 ⁷ / ₃₂ ") | 23818 |
| | | | cut to size | 23819 |
| Lower cover | | 2500 (8'2 ⁷ / ₁₆ ") | 23899 | |
| | Lower cover profile for | plain anodized stainless- | 6000 (19'8 ⁷ / ₃₂ ") | 23898 |
| | | | cut to size | 23900 |
| | running track, | | 2500 (8'2 ⁷ / ₁₆ ") | 23902 |
| | alu | steel effect, | 6000 (19'8 ⁷ / ₃₂ ") | 23901 |
| | | brushed | cut to size | 23903 |
| | cover profile | | 2.5 m (8'2 ⁷ / ₁₆ ") | 23909 |
| | | rubber black | 10 m (32'9 ²³ ") | 23910 |
| | and running track | | 50 m (164'0½") | 23911 |

Running tracks, cover- and screen cover profiles

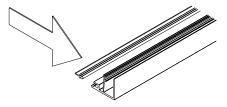
The running tracks, cover profile and screen profile are available not only as a set but also individually in lengths of 2500 mm (8'2 $\frac{7}{16}$ "), 6000 mm (19'8 $\frac{7}{32}$ ") and cut to size. Running tracks and cover profiles are available in plain anodized aluminium or a brushed stainless steel effect; the screen profiles are made of black rubber.



Running track with screen cover profile



Angled cover profile with screen cover profile



Lower cover profile with screen cover profile

Profile set for fixed glass

| Caution: Minor differen | tion: Minor differences in colour are possible | | | code |
|-------------------------|---|--|--|-------|
| | Profile set for fixed glass, incl. cover profile, | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 24159 |
| | alu, set incl. special countersunk screws, 5,5 x19 mm $(\frac{7}{32}$ " $\times \frac{3}{4}$ ") | stainless- steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 24160 |

Profile for fixed glass

| Caution: Minor differen | nces in colour are | possible | mm/inch | code |
|-------------------------|--|--|--|-------|
| | | | 2500 (8'2 ⁷ / ₁₆ ") | 23768 |
| | | plain anodized | 6000 (19'8 ⁷ / ₃₂ ") | 23770 |
| | Profile for fixed glass, | anouizou | cut to size | 23772 |
| | alu | stainless- | 2500 (8'2 ⁷ / ₁₆ ") | 23769 |
| | steel effect, | 6000 (19'8 ⁷ / ₃₂ ") | 23771 | |
| | brushed | cut to size | 23773 | |
| | Cover profile to profile fixed glass, | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 20865 |
| | | | 6000 (19'8 ⁷ / ₃₂ ") | 21229 |
| | | | cut to size | 19548 |
| | | stainless- | 2500 (8'2 ⁷ / ₁₆ ") | 21315 |
| | alu | steel effect, | 6000 (19'8 ⁷ / ₃₂ ") | 21283 |
| | | brushed | cut to size | 21284 |
| 8660 V | Special countersunk screws, 5,5 x 19 mm $\left(\frac{7}{26}"x\frac{2}{6}"'\right)$ for fixing profile fixed glass to running track, set of 5 pieces, for running track length up to 2500 (8'2 $\frac{7}{16}"$) mm | | | 24138 |

Bottom, wall and rubber profile to fixed glass

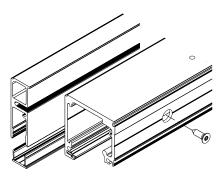
| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|---|--|-------|
| | Bottom/wall profile to fixed | 4000 (13'1 ¹ / ₂ ") | 19549 |
| | glass, alu, plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 19561 |
| | predrilled | cut to size | 20067 |
| | Bottom/wall 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 $8-9.9~\text{mm}~(\frac{5}{16}\text{"}-\frac{13}{32}\text{"})$ | | 25787 |
| | Rubber profile, black to fixed glass $10-12 \text{ mm} \left(\frac{13}{32} - \frac{15}{32}\right)$ | roll of 10 m (32'9 ²³ ") | 25789 |
| | Rubber profile, black to fixed glass 12.1–13.1 mm $(\frac{15}{32} - \frac{17}{32})$ | | 25763 |

Profile for fixed glas

The HAWA-Purolino-PLUS 80 is a versatile room partitioning system thanks to the combination of running track and fixed glass profile. The profile for fixed glass elements is attached to the running track with special countersunk screws.

The Hawa rubber profile or a silicone joint keeps the glass element in place without a cutout or hardware elements and prevent moisture from penetrating between glass and profile.

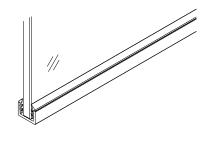
The clip-on cover profile is designed for the doorway area.



The profile for fixed glass elements is attached to the running track with special countersunk screws and covered from below with the cover profile.

Bottom/wall profile for fixed glass

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



End profile set wall surface assembly

| Caution: Minor differences in colour are possible | | mm/inch | code | |
|---|---------------------------------------|-----------------------|---|----------------|
| | set wall surface assembly, stainless. | plain | 2500 (8'2 ⁷ / ₁₆ ") | 22148 |
| | | anodized | 3500 (11'5 13") | 22150 |
| | | | stainless- steel effect, | 2500 (8'2 7 ") |
| I III | · | brushed | 3500 (11'5 13") | 22151 |
| | Rubber seal for end profile | | 2500 (8'2 ⁷ / ₁₆ ") | 22040 |
| | wall surface mou | wall surface mounting | | 22041 |

Scope of delivery for end profile for wall surface mounting:

• End profile

· Adhesive tape

- · Vertical aluminium profile
- Flat profile 20/4 mm
- Vertical plastic profileCleaning cloth
- Wall profile set for wall surface mounting

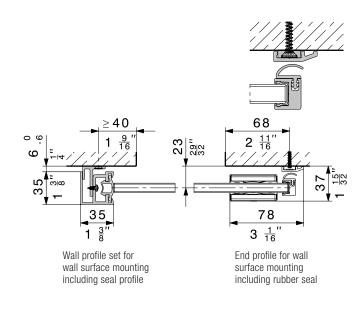
| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code | | | | |
|---|---|----------------------------|--|-----------------|-----------------------|-----------------------------|----------------|
| | mounting, alu, predrilled, incl. retainer steel e | plain | 2500 (8'2 ⁷ / ₁₆ ") | 22144 | | | |
| | | mounting, alu, predrilled, | anodized | 3500 (11'5 13") | 22146 | | |
| | | | | | incl retainer Stall | stainless- steel effect, | 2500 (8'2 7 ") |
| , , | | alu brushed | 3500 (11'5 13") | 22147 | | | |
| | Seal profile, black, for wall profile | | roll of 2500 (8'2 ⁷ / ₁₆ ") | 16452 | | | |
| | | | roll of 3500 (11'5 13") | 16453 | | | |

Wall connection profile

| Caution: Minor differen | tion: Minor differences in colour are possible mm/inch | | code | |
|--|--|-----------------|---|-------|
| | 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, | | ck, | roll 2500 (8'2 7 ") | 16452 |
| | for wall profile | | roll 3500 (11'5 13") | 16453 |
| Centering assembly black for all glass sliding doors, to wall profile Centering assembly grey for all glass sliding doors | | 18663 | | |
| | | 18619 | | |

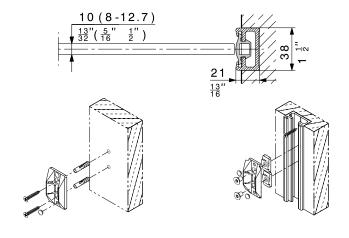
Wall surface mounting

The vertical additional profiles with rubber seals minimise the vertical gaps between the building wall and the sliding glass door. The strike plate of the HAWA-Toplock for glass sliding doors can be integrated in the wall profile set with the black seal profile 16452/16453 for lockable sliding doors that run in front of a wall.



Wall connection profile

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

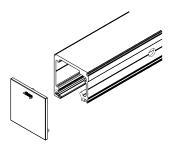


Side cover cap for running track without fixed glass

| | | | code |
|--|---|------------------------|-------|
| | Side cover cap, (incl. grub screw, metal, | dull chromium finish | 24145 |
| | suitable for both sides, 1 piece | stainless steel effect | 24080 |

Side cover cap for running track

The metal (Zamak) cover cap is available in a matt chromium finish or stainless steel effect for running tracks without a fixed glass profile. It is available individually and can be fitted left or right as required.

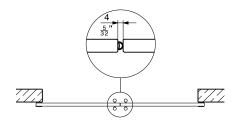


Rubber profile for glass edge protection

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

Rubber profile for glass edge protection

Self-adhesive rubber profile fitted along the glass edge minimises draughts and buffers impacts between adjacent glass sliding doors. Using the soft closing mechanism SoftMove 80 the doors are gently decelerated and pulled to the end position.

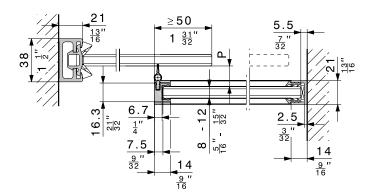


Vertical sealing profile

| | | mm/inch | code |
|---|----------|--|-------|
| Vertical seal 20/22, alu, for all-glass sliding doors with fixed glass, | plain | 2500 (8'2 ⁷ / ₁₆ ") | 20650 |
| set for glass ($\frac{25}{32}$ " – $\frac{7}{8}$ ") | anodized | 3500 (11'5 ½) | 20651 |

Vertical sealing profile The vertical sealing profile is effective.

The vertical sealing profile is effective against draughts. The slim alu-minium profile affixes frontally to glass elements 8-12 mm $(\frac{5}{16}"-\frac{15^{11}}{32}")$ 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.



Glass distance «P» for vertical sealing profile

| | glass thickness sliding door | Vertical seal | glass distance «P» |
|-----------------------|--|------------------|-------------------------------------|
| HAWA-Purolino-PLUS 80 | 8-12 mm (⁵ / ₁₆ - ¹⁵ / ₃₂ ") | 20/22 | 20-22 mm (²⁵ "- 78") |

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): $8/10/12/12,7 \text{ mm} \left(\frac{5}{16}\right)^{13}/\frac{15}{32}$, thickness tolerance $\pm 0,3 \text{ mm}$
- Glass thickness sliding door VSG (fully tempered laminated glass): $2x4 \pm 0.2 \text{ mm} \rightarrow \text{film thickness } 0.38/0.76/1.52 \text{ mm}$ $2\,x5\pm0.2$ mm \rightarrow film thickness 0,38/0,76/1,52 mm $2x6 \pm 0.2 \text{ mm} \rightarrow \text{film thickness } 0.38/0.76 \text{ mm}$
- All glass edges are seamed; maximum 1 mm $(\frac{1}{16}")$ in the glass cutout
- VSG (fully tempered laminated glass) permissible with max. offset of 2 mm $(\frac{3}{32}")$ in the glass cutout
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass) 8–12mm ($\frac{5}{16}$ " $-\frac{15}{32}$ ") with silicone up to 13 mm $(\frac{17}{32}")$

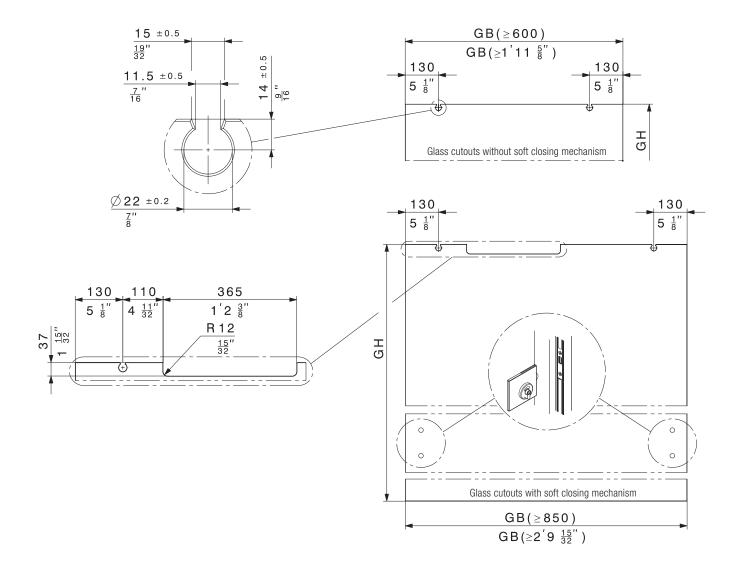
Please use assembly instructions number 25557 for detailed glass calculations and to order glass elements.

(→ www.hawa.ch → HAWA-Productfinder)

Glass sliding door and soft closing mechanism SoftMove 80

The maximum deflection of the glass element must not exceed ± 2 mm $(\frac{3}{32})$ to maintain the correct functionality of the soft closing mechanism SoftMove 80.

Pull handles are recommended instead of flush handles for greater convenience.



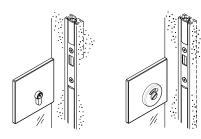
Better safe than sorry

The HAWA-Toplock for all glass sliding doors is the ideal solution as it is aesthetically appealing and very secure. Details: → HAWA-Toplock.





countercasing



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

Order specifications

- · Quantity of sets
- Type and quantity of running track sets
- Type and quantity of cover profiles and screen profiles

Optional order specifications

- Type and quantity of side cover caps
- Type and quantity of end profile set for wall surface mounting
- Type and quantity of wall profile set for wall surface mounting
- Type and quantity of wall joint profiles
- Type and quantity of bottom door stop
- Type and length of rubber profile for glass edge protection
- Type and quantity of additional components for VSG (fully tempered monolithic glass)

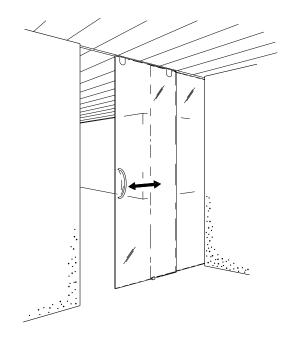
Optional order specifications fixed glass

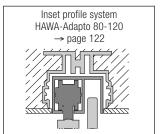
- Type and quantity of profile set for fixed glass
- Type and quantity of bottom/wall profile and rubber profile for fixed glass
- Type and length of vertical sealing profile

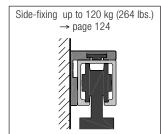
Planning/installation

For planning and installation purposes, please use the installation drawing code 25557. (→ www.hawa.ch → HAWA-Productfinder)

For convenient operation of sliding doors with soft closing mechanisms, use bow-type handles instead of shell handles.







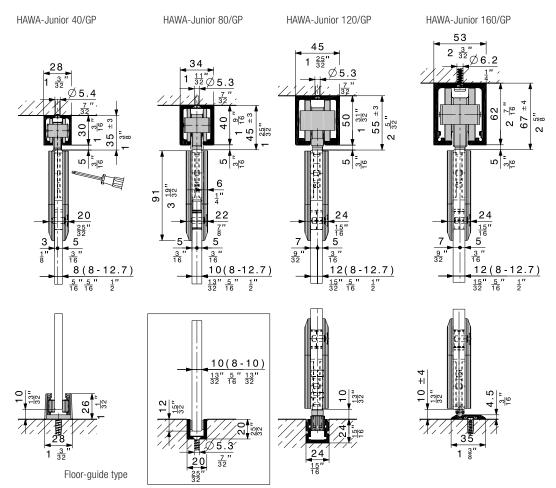
Hardware system with patch suspension for elegant all-glass sliding doors weighing up to 40, 80, 120 and 160 kg (88, 176, 264 and 352 lbs.).

Description

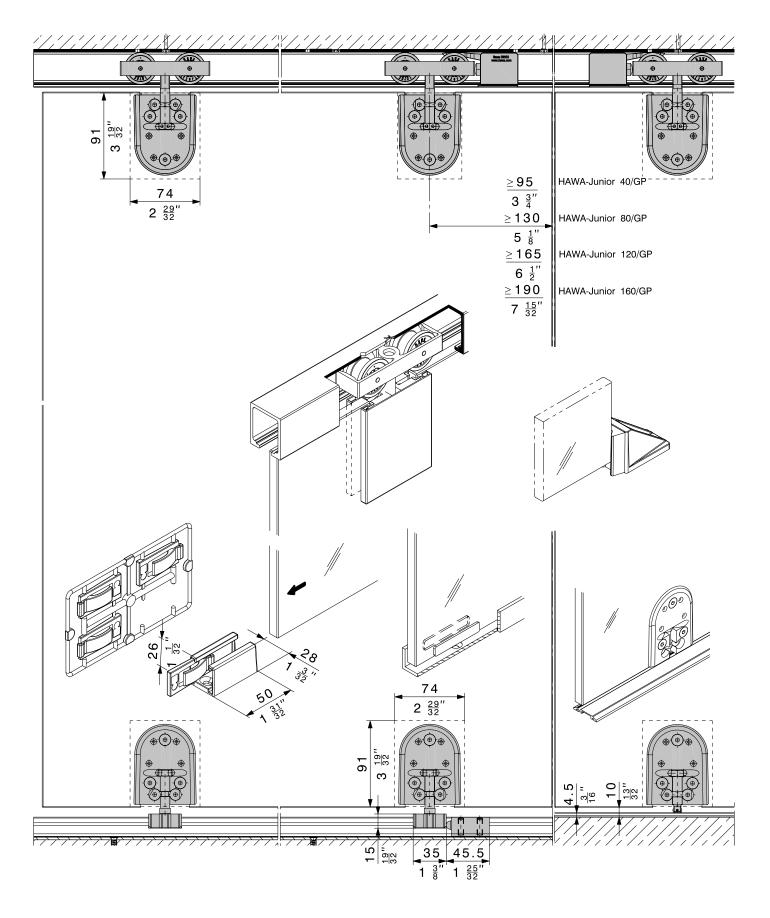
The HAWA-Junior 40-80-120-160/GP is an attractive addition to the highly successful HAWA-Junior family. With its clever glass attachment and guide mechanism, this sophisticated hardware system opens up new dimensions in the field of transparent room design for architects and planners. It is remarkably simple to install: the suspension is fitted from the interior, thus providing protection against break-ins, and the countersunk suspension bolt permits an especially low installation height. It is also extremely simple to adjust the position of the glass sliding door as the vertical adjustment can be carried out from the interior.

Features of the HAWA-Junior 40-80-120-160/GP

- Two-wheeled trolley, with plastic wheels
- Smooth and quiet operation
- track stop with adjustable retainer
- · Vertical adjustment without removing the glass door
- · Low installation height
- Cover in rounded or square and in different colours
- Special floor guide, screw mounting, rattle proof, for glass sliding doors
- Soft closing mechanism SoftMove 80 for HAWA-Junior 80
- Further profiles allow fixed glass to be fitted without the hardware being visible
- Glass thickness sliding door ESG (fully tempered monolithic glass): 8/10/12/12,7 mm $(\frac{5}{16},\frac{1/3}{32},\frac{1/3}{22},\frac{1}{2})$ VSG (fully tempered laminated glass): 8,7–12,7 mm $(\frac{11}{12},\frac{1}{2},\frac{1}{2})$
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/VSG (fully tempered laminated glass): $8-12 \text{ mm} \left(\frac{5}{16}^{-}-\frac{15}{32}^{-}\right)$ with silicone up to 13 mm $\left(\frac{17}{32}^{-}\right)$
- combinable with SoftMove 40-80-120 soft closing mechanism for Hawa-Junior 40-80-120



Examples of application



HAWA-Junior 40/GP, partial set, without running track

| | code |
|---|-------|
| HAWA-Junior 40/GP, partial set for single door (ESG¹/VSG²) | 25904 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | | pieces | code |
|---------|--|--------|-------|
| | Two-wheeled trolley, M8, with plastic wheels | 2 | 25898 |
| | Suspension bolt M8 and mounting screws | 2 | 16017 |
| | Patch suspension with glass holder insert, (ESG¹/VSG²), set of 1 piece | 2 | 20505 |
| 5 | Track stop, adjustable retaining force | 2 | 10640 |
| | Single use drilling jig, (ESG¹/VSG²) | 1 | 20400 |
| <u></u> | Screw-on rubber door stop | 1 | 10629 |
| | Vertical adjustment pin | 1 | 16329 |

HAWA-Junior 80/GP, partial set, without running track

| | code |
|--|-------|
| HAWA-Junior 80/GP, partial set for single door (ESG¹/VSG²) | 20491 |
| HAWA-Junior 80/GP, partial set for single door (ESG¹/VSG²), with 1 soft closing mechanism SoftMove 80, minimum door width: 690 mm (2'3 (3 m)) | 23091 |
| HAWA-Junior 80/GP, partial set for single door (ESG¹/VSG²), with 2 soft closing mechanisms SoftMove 80, minimum door width: 1030 mm (3'4 $\frac{9}{16}$ ") | 23092 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| Tartial Set Comprisi | -9 | | | | |
|----------------------|--|-------|-------|-------|-------|
| | | 20491 | 23091 | 23092 | code |
| | Two-wheeled trolley, M10, with plastic wheels | 2 | 2 | 2 | 10407 |
| | Suspension bolt M10 and mounting screws | 2 | 2 | 2 | 16018 |
| | Patch suspension with glass holder insert, (ESG¹/VSG²), set of 1 piece | 2 | 2 | 2 | 20505 |
| | Track stop, adjustable retaining force | 2 | 2 | 2 | 24497 |
| | Single use drilling jig, (ESG¹/VSG²) | 1 | 1 | 1 | 20400 |
| () | Screw-on rubber door stop | 1 | 1 | 1 | 10629 |
| | Vertical adjustment pin | 1 | 1 | 1 | 16329 |
| Service de | Soft closing mechanism SoftMove 80 for HAWA-Junior 80 | _ | 1 | 2 | 22444 |

¹fully tempered monolithic glass

² fully tempered laminated glass

HAWA-Junior 120/GP, partial set, without running track

| | code |
|---|-------|
| HAWA-Junior 120/GP, partial set for single door (ESG¹/VSG²) | 25909 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | | pieces | code |
|------------|--|--------|-------|
| | Two-wheeled trolley, M12, with plastic wheels | 2 | 25900 |
| | Suspension bolt M12 and mounting screws | 2 | 16019 |
| | Patch suspension with glass holder insert, (ESG¹/VSG²), set of 1 piece | 2 | 20505 |
| | Track stop, adjustable retaining force | 2 | 14858 |
| | Single use drilling jig, (ESG ¹ /VSG ²) | 1 | 20400 |
| () | Screw-on rubber door stop | 1 | 10629 |
| | Vertical adjustment pin | 1 | 16329 |

HAWA-Junior 160/GP, partial set, without running track

| | code |
|---|-------|
| HAWA-Junior 160/GP, partial set for single door (ESG¹/VSG²) | 20493 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | | pieces | code |
|---|--|--------|-------|
| | Two-wheeled trolley, M14, with plastic wheels | 2 | 10416 |
| 8 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | Suspension bolt M14 and mounting screws | 2 | 19605 |
| | Patch suspension with glass holder insert, (ESG¹/VSG²), set of 1 piece | 2 | 20505 |
| 5 THE | Track stop, adjustable retaining force | 2 | 10639 |
| | Single use drilling jig, (ESG¹/VSG²) | 1 | 20400 |
| () | Screw-on rubber door stop | 1 | 10629 |
| | Vertical adjustment pin | 1 | 16329 |

Accessories

| | | code |
|------------|---|-------|
| | SoftMove 40 soft closing mechanism for Hawa-Junior 40 | 25987 |
| \$ 10° 10° | SoftMove 80 soft closing mechanism for Hawa-Junior 80 | 22444 |
| | SoftMove 120 soft closing mechanism for Hawa-Junior 120 | 25988 |

Floor-mounted guides

| Caution: Minor differen | Caution: Minor differences in colour are possible | | code |
|---|---|---|-------|
| | Rattle-proof floor guide | dull chromium | |
| | inc. self-adhesive sliders | finish | 16029 |
| | for satinised glass, glass thickness 8–12,7 mm | stainless steel | |
| | $\left(\frac{5}{16} - \frac{1}{2}\right)$ | effect | 21267 |
| | | | |
| () () () () () () () () () () | Distance plate to bottom g | juide | 16657 |
| | Bottom guide channel, | 6000 mm /1010 7 "\ | 14414 |
| | alu plain anodized, predrilled, | 6000 mm (19'8 ⁷ / ₃₂ ") | 14414 |
| | 20 x 20 x 3 mm | cut to size | 14415 |
| | $\left(\frac{25}{32}^{\text{H}} \times \frac{25}{32}^{\text{H}} \times \frac{1}{8}^{\text{H}}\right)$ | 041 10 0120 | |
| | | (S.H.) | 10100 |
| | Self-adhesive sliders 8 mr | n (📆) glass | 16192 |
| | | | |
| | Self-adhesive sliders 10 m | ım (13") glass | 16193 |
| | | . , , , | |
| | Patch suspension with gla | ss holder insert, | |
| | (ESG¹/VSG²), set of 1 piece | | 20505 |
| 333 | guide slider, without moun | guide slider, without mounting screws | |
| | Spring bottom guide for point fixing, | | 19118 |
| | incl. mounting screws | | 10110 |
| 9 | Guide slider, rattle proof, | | |
| | plastic, with mounting scre | ′ | 16020 |
| ~ | suitable for patch suspens | sion | |
| | | 2500 mm (8'2 ⁷ / ₁₆ ") | 19348 |
| | Single bottom guide | 3500 mm (11'5 13") | 19349 |
| | channel, alu plain anodized | 6000 mm (19'8 ⁷ / ₃₂ ") | 18956 |
| | | cut to size | 19350 |
| | Set of fixing parts for sing | le hottom quido | |
| | channel 18956, 5 pieces | ie pottoiii guiue | 19162 |
| | (2 pieces per metre) | | |
| | | 6000 mm /1010 7 % | 15405 |
| | Bottom guide channel, alu plain anodized, | 6000 mm (19'8 ⁷ / ₃₂ ") | 10400 |
| | undrilled | cut to size | 15554 |
| | | 531 10 0120 | 10007 |
| | Stop bumper | | 15636 |
| | | | |

HAWA-Junior 40, 10-pieces sets

| | code |
|--|-------|
| Two-wheeled trolley, M8, with plastic wheels, 10-pieces set | 25963 |
| Track stop, adjustable retaining force, 10-pieces set | 25957 |

HAWA-Junior 80, 10-pieces sets

| | code |
|---|-------|
| Two-wheeled trolley, M10, with plastic wheels, 10-pieces set | 25952 |
| Track stop, adjustable retaining force, 10-pieces set | 25962 |

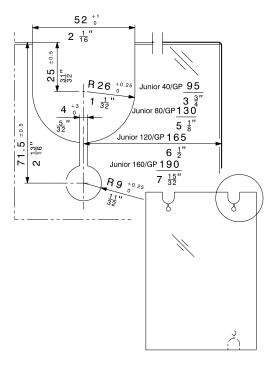
Cover plates

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

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 mm (\frac{5}{16} \frac{1}{32} \frac{1}{
- Glass thickness sliding door VSG (fully tempered laminated glass):
 2×4 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm
 2×5 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm
 2×6 ± 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 $(\frac{3}{32}")$ in the glass cutout
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass) 8–12mm (⁵/₁₆ "- ¹⁵/₃₂") with silicone up to 13 mm (¹⁷/₃₂")



1fully tempered monolithic glass

² fully tempered laminated glass

Running tracks to HAWA-Junior 40/GP

| Caution: - Hole positio - Minor differ | ns vary ences in colour are possible | mm/inch | code |
|---|---|--|-------|
| | | 1400 (4'7 ¹ / ₈ ") | 10213 |
| | | 1600 (5'3") | 10214 |
| /* °/ | | 1800 (5'10 ⁷ / ₈ ") | 10215 |
| | Running track, alu plain | 2000 (6'6 ³ / ₄ ") | 10216 |
| | anodized, predrilled | 3000 (9'10 ½") | 18530 |
| | | 4000 (13'1½") | 18531 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10211 |
| | | cut to size | 10217 |

Running tracks to HAWA-Junior 80/GP

| Caution: - Hole positio - Minor differ | ns vary ences in colour are possible | mm/inch | code |
|---|--|--|--|
| ** | Running track, alu plain anodized, predrilled | $\begin{array}{c} 1400 \ (4'7\frac{1}{8}") \\ 1600 \ (5'3") \\ 1800 \ (5'10\frac{7}{8}") \\ 2000 \ (6'6\frac{7}{4}") \\ 2200 \ (7'2\frac{5}{8}") \\ 2500 \ (8'2\frac{7}{16}") \\ 3000 \ (9'10\frac{1}{8}") \\ 4000 \ (13'1\frac{1}{8}") \\ 6000 \ (19'8\frac{7}{32}") \\ cut \ to \ size \\ \end{array}$ | 10189 10190 10191 10192 10193 10194 18532 18533 10186 10188 |
| | Running track, alu stainless steel effect, brushed, predrilled | $\begin{array}{c} 2500 \ (8'2\frac{7}{16}") \\ 4000 \ (13'1\frac{1}{2}") \\ 6000 \ (19'8\frac{7}{32}") \\ \text{cut to size} \end{array}$ | 22048 20005 20004 20006 |

Running tracks to HAWA-Junior 120/GP

| Caution: Hole position: | s vary | mm/inch | code |
|-------------------------|--------------------------|--|-------|
| * | | 2500 (8'2 ⁷ / ₁₆ ") 3000 (9'10 ¹ / ₈ ") | 14866 |
| | Running track, alu plain | | 14867 |
| | anodized, predrilled | 4000 (13'1½") | 14868 |
| | anouizeu, preurineu | 6000 (19'8 ⁷ / ₃₂ ") | 14869 |
| | | cut to size | 14871 |

Running tracks to HAWA-Junior 160/GP

| Caution: Hole positions | vary | mm/inch | code |
|-------------------------|--|--|-------|
| /。 | | 3000 (9'10 ¹ / ₈ ") | 24608 |
| | Dunning trook alu plain | 4000 (13'1½") | 24607 |
| | Running track, alu plain anodized, predrilled | 5000 (16'4 ²⁷ '') | 24606 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 24605 |
| | | cut to size | 24609 |
| | Connecting pins for profiles, set of 2 pieces | | 21347 |

Cover caps for running track

| | | | code |
|--|--|---------------------------|-------|
| | HAWA-Junior 40 Cover cap for running track, plastic anthracite-grey RAL 7016 | | 20901 |
| | HAWA-Junior 80 Cover cap for running | dull chromium finish | 24956 |
| | track, metal, suitable to both sides, 1 piece | stainless steel effect | 24957 |
| | HAWA-Junior 120 Cover cap for running track, metal, suitable to both sides, 1 piece | dull chromium finish | 25332 |

Running tracks with fixed glass, cut to size

| Caution: Hole positions vary | | code | |
|--|---|-----------------|-------|
| | Running track, alu, cut | HAWA-Junior 40 | 20103 |
| | | HAWA-Junior 80 | 20107 |
| | predrilled | HAWA-Junior 120 | 20056 |
| | Running track, alu, cut to size, stainless steel effect, predrilled | HAWA-Junior 80 | 21279 |
| Cover profile to running track, alu, cut to size, plain anodized | | 19548 | |
| | Cover profile to running trac cut to size, stainless steel e | ' ' | 21284 |

Running track sets to HAWA-Junior 40 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|---|---------------------------|-------|
| | Running track set to HAWA-Junior 40 with | 2000 (6'6\frac{3}{4}") | 20224 |
| | fixed glass, alu, plain anodized, predrilled | 6000 (19'8 \frac{7}{32}") | 20225 |

Running track sets comprising

| | mm/inch | 20224 | 20225 | code |
|--|--|-------|-------|-------|
| indiming tracit mitter sixed grace, | 2000 (6'63") | 1 | | 20101 |
| | 6000 (19'8 ⁷ / ₃₂ ") | | 1 | 20102 |
| Cover profile to running track with fixed glass, | 1250 (4'1 ⁷ / ₃₂ ") | 1 | | 19552 |
| | 3000 (9'10 ¹ / ₈ ") | | 1 | 19562 |

Running track sets to HAWA-Junior 80 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | | mm/inch | code |
|---|---------------------------------------|---|--|---------------|
| | nullilling track | | 2500 (8'2 ⁷ / ₁₆ ") | 20226 |
| /* */ | | l anadizad | anodized | 4000 (13'1½") |
| set to | | anouized | 6000 (19'8 ⁷ / ₃₂ ") | 20228 |
| | HAWA-Junior 80 with fixed glass, | stainless | 2500 (8'2 ⁷ / ₁₆ ") | 21270 |
| alu, predrilled | steel effect, | 4000 (13'1 ¹ / ₂ ") | 21271 | |
| | , , , , , , , , , , , , , , , , , , , | brushed | 6000 (19'8 ⁷ / ₃₂ ") | 21272 |

Running track sets comprising

| | | mm/inch | 20226 | 20227 | 20228 | 21270 | 21271 | 21272 | code |
|--------------------------------------|--------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 1 | | | | | | 20104 |
| | | 4000 (13'1 ¹ / ₂ ") | | 1 | | | | | 20105 |
| Running track | | 6000 (19'8 ⁷ / ₃₂ ") | | | 1 | | | | 20106 |
| with fixed glass, alu, predrilled | stainless | 2500 (8'2 ⁷ / ₁₆ ") | | | | 1 | | | 21276 |
| aia, prodriilou | steel effect, brushed | 4000 (13'1½") | | | | | 1 | | 21277 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | | | | | | 1 | 21278 |
| | | 1250 (4'132") | 1 | | | | | | 19552 |
| Cover profile to | plain anodized | 2000 (6'6 3") | | 1 | | | | | 19553 |
| running track | anouizeu | 3000 (9'10 ¹ / ₈ ") | | | 1 | | | | 19562 |
| with fixed glass, | stainless | 1250 (4'132") | | | | 1 | | | 21280 |
| alu ste | steel effect, | 2000 (6'63") | | | | | 1 | | 21281 |
| | brushed | 3000 (9'10 ¹ / ₈ ") | | | | | | 1 | 21282 |

Running track sets to HAWA-Junior 120 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | | mm/inch | code |
|---|-------------------|---------------|--|-------|
| /*/ | Running track set | | 3000 (9'10 1 ") | 20229 |
| with fixed glass to | plain anodized | 4000 (13'1½") | 20230 | |
| | alu, predrilled | | 6000 (19'8 ⁷ / ₃₂ ") | 20231 |

Running track sets comprising

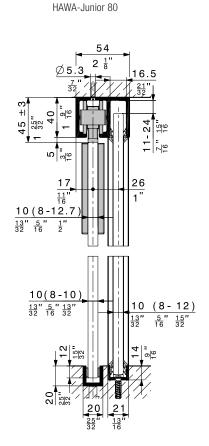
| | | mm/inch | 20229 | 20230 | 20231 | code |
|-----------------------------|----------------------|--|-------|-------|-------|-------|
| Running track with fixed | | 3000 (9'10 18") | 1 | | | 20235 |
| glass, alu, predrilled | | 4000 (13'1½") | | 1 | | 20054 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | | | 1 | 20055 |
| Cover profile to running | plain anodized | 2000 (6'6 3 ") | 1 | 1 | | 19553 |
| track with fixed glass, alu | piaiii ailouizeu | 3000 (9'10 ¹ / ₈ ") | | | 1 | 19562 |

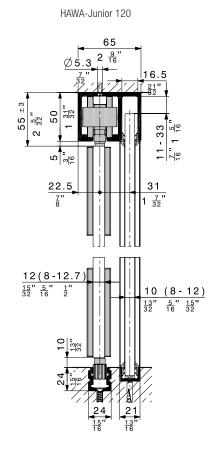
Running track sets with retainers for fixed glass

Our running track sets with integrated retainers for fixed glass add an extremely versatile and user-friendly partitioning system to the HAWA-Junior family.

The glass element is simply positioned in the track's fixed glass retainer. Glass cut-outs and visible hardware are now no longer necessary. A retainer profile for wall and floor fitting provides sufficient stability, whether flush or mounted. A Hawa rubber profile or a silicone groove hold the glass in position and prevent humidity seeping between glass and track. The running track set also has a cover profile made of aluminium which simply clips into and closes the fixed glass retainer in the walk-through area - a solution which is both easy to use and pleasing to the eye.

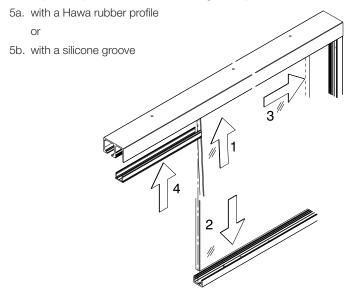
HAWA-Junior 40

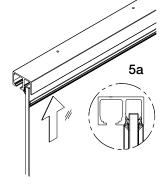




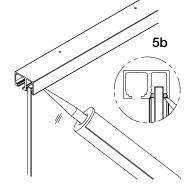
Easy fitting of fixed glass

- 1. Slide glass element into fixed glass retainer at the top
- Position the glass on the spacing block in the floor profile and/or
- 3. slide sideways into the wall profile
- 4. Clip cover profile into the walk-through area profile and seal





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



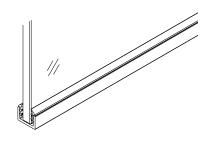
Silicone glazing provided by the customer.

Bottom, wall and rubber profile to fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|--|--|-------|
| glass, ali predrilled Bottom/w glass, alu | Bottom/wall profile to fixed | 4000 (13'1 ¹ / ₂ ") | 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 $8-9.9 \text{ mm} \left(\frac{5}{16} - \frac{13}{32}\right)$ | | 25787 |
| | Rubber profile, black to fixed glass $10-12 \text{ mm} \left(\frac{13}{32} - \frac{15}{32}\right)$ | roll of 10 m (32'9 ²³ ") | 25789 |
| | Rubber profile, black to fixed glass 12.1–13.1 mm $(\frac{15}{32}-\frac{17}{32})$ | | 25763 |

Bottom/wall profile to fixed glass

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

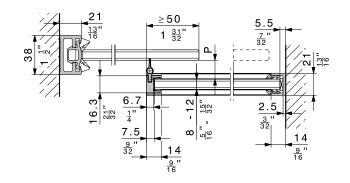


Vertical sealing profile

| Caution: Minor differe | nces in colour are possib | le | mm/inch | code |
|------------------------|--|--------------------------|--|-------|
| | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 20283 |
| | Vertical seal 13/18, alu, for all-glass sliding | anodized | 3500 (11'5 🔠") | 20284 |
| | 40 40 5 (178 38) | stainless | 2500 (8'2 7 ") | 21290 |
| | 13 10,3 11111 (32 4) | steel effect, brushed | 3500 (11'5 13") | 21291 |
| | Vertical seal 20/22, alu, for all-glass sliding doors wtih fixed glass, | plain | 2500 (8'2 ⁷ / ₁₆ ") | 20650 |
| | set for glass distance $20-22 \text{ mm} \left(\frac{25}{32} - \frac{7}{8}\right)$ | anodized | 3500 (11'5 ¹³ ") | 20651 |

Vertical sealing profile

The vertical sealing profile is effective against draughts. The slim aluminium profile affixes frontally to glass elements 8–12 mm $(\frac{5}{16}"-\frac{15}{32}")$ 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.



Glass distance «P» for vertical sealing profile

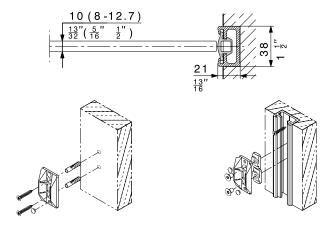
| | Glass thickness sliding door | Vertical seal | Gvlass distance «P» |
|--------------------|------------------------------|---------------|--|
| HAWA-Junior 40/GP | | 13/18 | 13-15 mm (¹⁷ / ₃₂ "- ¹⁹ / ₃₂ ") |
| HAWA-Junior 80/GP | 8–12 mm (5/6"– 15/5") | 13/18 | 15-17 mm (¹⁹ / ₃₂ "- ¹¹ / ₁₆ ") |
| HAWA-Junior 120/GP | (10 32) | 20/22 | 20–22 mm $(\frac{25}{32}$ " $-\frac{7}{8}$ ") |

Wall connection profile

| Caution: Minor differer | mm/inch | code | | |
|---|----------------------|----------------------------|---|-------|
| 112 | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 17020 |
| | Wall profile, | anodized | 3500 (11'5 13") | 17021 |
| | alu, undrilled | stainless steel effect, | 2500 (8'2 7 ") | 20119 |
| | | brushed | 3500 (11'5 13") | 20120 |
| | Seal profile, black, | | | |
| | for wall profile | | roll 3500 (11'5 13") | 16453 |
| Centering assembly black for all glass sliding doors, to wall profile | | | | |
| 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.

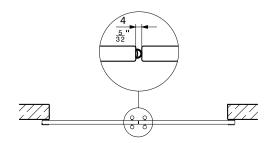


Rubber profile for glass edge protection

| | | roll of | code |
|---------------------------------------|---|---|-------|
| for 8. thick glass Rubb for 8. thick | Rubber profile self-adhesive, | 5 m (16'4 ²⁷ ") | 19442 |
| | for 8/10 mm $(\frac{5}{16}"/\frac{13}{32}")$ glass thickness, black, | 10 m (32'9 ²³ / ₃₂ ") | 19443 |
| | glass distance 4 mm (\frac{5}{32}") | 50 m (164'½") | 19444 |
| | Rubber profile self-adhesive, for 8/10 mm $(\frac{5}{10})^{13}$ glass thickness, translucent, glass distance 4 mm $(\frac{5}{52})^{13}$ | 5 m (16'4 ²⁷ / ₃₂ ") | 19445 |
| | | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| | | 50 m (164'½") | 19447 |

Rubber profile for glass edge protection

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



Fitting sets to HAWA-Adapto 80-120

| | mm/inch | code |
|-------------------------|--|-------|
| Fitting sets to | to 2500 (8'2 ⁷ / ₁₆ ") | 22841 |
| HAWA-Adapto 80, | 2501 to 4000 (8'2 $\frac{15}{32}$ " to 13'1 $\frac{1}{2}$ ") | 22842 |
| with countersunk screws | 4001 to 6000 (13'1 $\frac{17}{32}$ " to 19'8 $\frac{7}{32}$ ") | 22843 |
| Fitting sets to | to 2500 (8'2 ⁷ / ₁₆ ") | 20232 |
| HAWA-Adapto 120, | 2501 to 4000 (8'2 ¹⁵ / ₃₂ " to 13'1 ¹ / ₂ ") | 20233 |
| with pan head screws | 4001 to 6000 (13'1 $\frac{17"}{32}$ " to 19'8 $\frac{7}{32}$ ") | 20234 |

Fitting set to HAWA-Adapto 80-120

The HAWA-Junior running tracks both with and without a bottom profile for fixed glass can be screwed into the embedded HAWA-Adapto profile using special adjustable 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 $4 \text{ m} (13^{\circ}1\frac{1}{2}^{\circ})$.

For details on the HAWA-Adapto 80-120: \rightarrow supplementary parts on page 122

Set comprising

| | | mm/ inch | 22841 | 22842 | 22843 | 20232 | 20233 | 20234 | code |
|--|--|-------------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 (16") | 2 | 2 | 3 | 2 | 2 | 3 | 19398 |
| (Service) | Distance plate, plastic | 2 (32") | 2 | 2 | 3 | 2 | 2 | 3 | 19399 |
| Serve Serve | | 3 (1/8") | 2 | 2 | 3 | 2 | 2 | 3 | 19400 |
| | | 5 (7/32") | 4 | 4 | 6 | 4 | 4 | 6 | 19401 |
| Charles of the Control of the Contro | Special countersunk screws, $6 \times 21 \text{ mm} (\frac{1}{4} \times \frac{27}{32})$, set of 10 pieces | | 1 | 2 | 3 | _ | _ | - | 22844 |
| and the same | Special pan head screws, 6 x 22 mm $(\frac{1}{4}$ " x $\frac{7}{8}$ "), set of 10 pieces | | - | _ | _ | 1 | 2 | 3 | 20215 |

Bottom door stop

| | | | code |
|---|-------------------------|---------------------------|-------|
| 39 | Bottom door stop | dull chromium finish | |
| 7 38 6 5 5 35 1 35 1 35 1 35 1 35 1 35 1 35 | with centering assembly | stainless steel effect | 21473 |

The bottom door stop quietly and gently stalls sliding doors. Sliding doors should be stopped simultaneously at top and bottom.

Accessories

Accessories → pages 120-129

Order specifications

- Type and quantity of partial sets
- Type and quantity of cover plates
- Type and length of running track
- Type and length of bottom guide channel
- Type and quantity of floor-mounted guides

Optional order specifications

- Length of rubber profile for glass edge protection
- Quantity of centering assemblies for wall connection profile

Order specifications fixed glass

- Type and quantity of running tracks with fixed glass
- Type and quantity of fitting sets

Optional order specification fixed glass

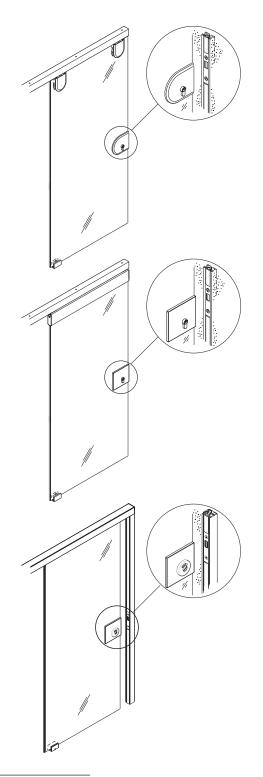
- Type and quantity of bottom/wall profile
- Type and quantity of rubber profile to fixed glass
- Type and quantity of vertical sealing profiles

Planning/installation

For planning and installation purposes, please use the installation drawing code 16023. (→ www.hawa.ch → HAWA-Productfinder)

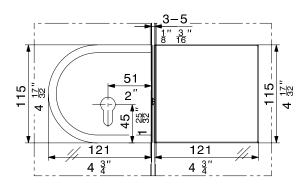
For convenient operation of sliding doors with soft closing mechanisms, use bow-type handles instead of shell handles.

H A W A - Toplock



Lock front view

The outside dimensions of the rounded and square cover plates are identical.



Lock for all-glass sliding door for fully tempered monolithic glass and fully tempered laminated glass.

Description

The HAWA-Toplock for sliding doors offers two outstanding features: its aesthetic design and a high level of security. It is a high-quality lock for securing sliding doors fitted with a 17 mm $(\frac{11}{16}")$ profile, 22 mm $(\frac{7}{8}")$ round cylinder or thumbturn four-square lock 8 mm $(\frac{5}{16}")$. It has been designed to blend perfectly like for example HAWA-Junior GP range of sliding door systems in terms of both form and colour. A countercasing is available for locking double-panel sliding door systems. A wall-fitting profile with integrated locking plate allows securing doors to a wall surface. The angled countercasing enables locking of doors that run in front of a wall, or fixed glass.

Applications

This hardware system is suitable for use wherever high quality and elegance are called for, e.g. in shopping centres, hotels, restaurants, banks, airports, railway stations, interiors of private households and public administration buildings.

Features of the HAWA-Toplock

- Suitable for securing single- and double-panel systems
- Available for 17 mm (¹¹/₁") profile cylinder, 22 mm (⁷/₈") round cylinder locks and thumbturn four-square lock 8 mm (⁵/₁")
- The lock can be used on the left or right as desired
- Cover s available in a variety of colours
- Simple to install
- Various fitting options

Glass cutouts

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

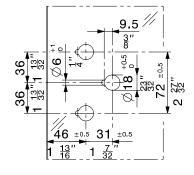
- Glass thickness sliding door ESG (fully tempered monolithic glass): 8/10/12/12,7 mm $(\frac{5}{16})^{1/3}/\frac{2}{32})^{1/2}/\frac{1}{2}$), thickness tolerance \pm 0,3 mm
- Glass thickness sliding door VSG (fully tempered laminated glass): 2×4 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm 2×5 ± 0,2 mm → film thickness 0,38/0,76/1,52 mm 2×6 ± 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 ($\frac{3}{32}$ ") in the glass cutout

Glass cutout A

For lock for sliding door and countercasing.

Glass cutout B

For lock bracket.



Subject to modification. Metric specifications are exact. Inches are approximate. $\label{eq:specification}$

H A W A - Toplock

Installation options

| with coun | tercasing | with fixed glass | | | le profile mounting | with wall conr | nection profile | with wal for wall surfa | |
|--|---|---|--|--|------------------------|--|---|--|--|
| | | | 3 | | | | 3 | | |
| | | | | | | | 0 0 0 | 3 | |
| glass cutout | glass cutout | glass cutout | ⊕ ⊕ ⊕ glass cutout | glass cutout | lock bracket | glass cutout | wall profile | glass cutout | wall profile wall surface mounting |
| HAWA-Junior 40 HAWA-Junior 40 HAWA-Junior 80 HAWA-Telescop HAWA-Symmetr HAWA-Junior 40 HAWA-Puro 100 HAWA-Purolino- | -80-120-160/GP 0-80/GL -120-160-250/G ic 80/G ic 80/G 0-80/GS 0-150 | HAWA-Junior 40 HAWA-Junior 40 HAWA-Junior 80 HAWA-Puro 100 HAWA-Purolino- | 0-80-120/GP 0-80/GL 0-120/G 1–150 | HAWA-Junior 4 HAWA-Junior 4 HAWA-Junior 8 HAWA-Purolino | 0-80/GL 0-120/G | HAWA-Junior 40 HAWA-Junior 40 HAWA-Junior 80 HAWA-Telescop HAWA-Junior 40 HAWA-Puro 100 HAWA-Purolino- | 0-80/GL 0-120-160/G ic 80/G 0-80/GS 0-150 | HAWA-Junior 40 HAWA-Junior 40 HAWA-Purolino- |)-80/GP)-80/GL |

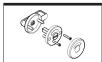
HAWA-Toplock

| | | | code |
|-----|--|--|-------|
| | | profile cylinder 17 mm (11) | 20494 |
| | cover plates | round cylinder 22 mm ($\frac{7}{8}$ ") | 20495 |
| | | for four-square lock 8 mm (516") | 22097 |
| | Countercasing, including centering assemblies, (ESG¹/VSG²) without cover pla | 20496 | |
| | Multi-purpose drilling jig for lock and countercasing | 17162 | |
| NG. | Security rose for profile | 12 mm (¹⁵ / ₃₂ ") | 14147 |
| | cylinder 17 mm (11) chrome nickel steel | 14 mm (⁹ / ₁₆ ") | 17839 |

Profile cylinder

| | Short cylinder 28 mm (1½"), | dull nickel finish | 24287 | | |
|--|-----------------------------|-------------------------|-------|--|--|
| | incl. 2 triangular keys | dull chromium finish | 24288 | | |

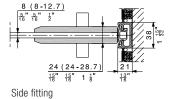
Provided by customer

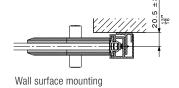


Standard thumbturn with rosette for four-square lock 8 mm $(\frac{5}{16}")$

Wall connection profile

| Caution: Minor differer | nces in colour are | possible | mm/inch | code |
|-------------------------|---|---------------------------------------|---|-------|
| | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 17020 |
| | Wall profile, | anodized | 3500 (11'5 13") | 17021 |
| | alu, undrilled | stainless- steel effect, | 2500 (8'2 ⁷ / ₁₆ ") | 20119 |
| | | brushed | 3500 (11'5 13") | 20120 |
| M \$1. | for wall surface mounting, alu, predrilled, incl. retainer profile, alu | plain | 2500 (8'2 ⁷ / ₁₆ ") | 22144 |
| | | anodized | 3500 (11'5 13") | 22146 |
| | | stainless steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 22145 |
| 1 | | | 3500 (11'5 13") | 22147 |
| | Seal profile, blac | k, | roll of 2500 (8'2 7 ") | 16452 |
| | for wall profile | | roll of 3500 (11'5 13") | 16453 |
| | Strike plate for v and wall profile v including centeri | 17182 | | |





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

¹fully tempered monolithic glass

² fully tempered laminated glass

H A W A - Toplock

Components for fixed glass or side fitting

| | acc or clas intang | | | | |
|-----------------------|--------------------|------------------------|-------|-------|--|
| | | | | | |
| HAWA-Junior 40 | a | b 1 mm (तं") | c c | a | b 3 mm (⅓") 3 mm (⅓") |
| HAWA-Junior 80 | 17203 17203 | 3 mm (½") | 20497 | 17203 | 19621 6 mm (½") 9 9 9 |
| HAWA-Puro 100–150 | 17203 | 3 mm (½") 1 mm (½") | 20497 | 17203 | 17000 |
| HAWA-Junior 120 | 17203 | 9 mm (3°) | 20497 | 17203 | 12 mm (⅓") 12 mm (⅓") 19622 |
| HAWA-Purolino-PLUS 80 | 17203 | 12 mm (15th) | | 17203 | 6 mm (¹ / ₄ ") 6 mm (¹ / ₄ ") 6 mm (¹ / ₄ ") 6 mm (¹ / ₄ ") |

Lock bracket

| LUCK DI ACKEL | | |
|---------------|---|-------|
| | | code |
| | Lock bracket, without cover plate | 17203 |
| | Lock bracket fixture for fixed glass (ESG ¹ /VSG ²), without cover plate | 20497 |

Spacer for lock bracket

| In combination with th | e fixed glass or side fitting | code |
|------------------------|--|-------|
| | Spacer 9 mm ($\frac{3}{8}$ "), for lock bracket in combination with fixed glass, alu plain anodized | 20276 |
| | Spacer 3 mm $(\frac{1}{8})$, for lock bracket, in combination with wall fitting, alu plain anodized | 19621 |
| | Spacer 6 mm (½"), for lock bracket, in combination with wall fitting, alu plain anodized | 17688 |
| | Spacer 12 mm (ﷺ), for lock bracket, in combination with wall fitting, alu plain anodized | 19622 |

¹fully tempered monolithic glass

² fully tempered laminated glass

H A W A -- Toplock

Cover plates

| | | | code |
|--|---|------------------------|-------|
| | Rounded cover plates, | dull chromium finish | 17184 |
| | for 17 mm (11/16), | stainless steel effect | 17186 |
| | cylinder, plastic (1 pair) | raw | 17188 |
| | Rounded cover plates, | dull chromium finish | 17189 |
| | for 22 mm (7/8"), | stainless steel effect | 17191 |
| | cylinder, plastic (1 pair) | raw | 17193 |
| | Rounded cover plates | dull chromium finish | 17194 |
| | for countercasing, | stainless steel effect | 17196 |
| | plastic (1 piece) | raw | 17198 |
| | Rounded cover plates | dull chromium finish | 17204 |
| | for lock bracket, | stainless steel effect | 17206 |
| | plastic (1 piece) | raw | 17208 |
| | Rounded cover plates for lock bracket fixture for fixed glass | dull chromium finish | 18525 |
| | | stainless steel effect | 18527 |
| | | raw | 18339 |
| | Square cover plates | dull chromium finish | 19095 |
| | for 17 mm (11/16), | stainless steel effect | 19096 |
| | cylinder, plastic (1 pair) | raw | 19097 |
| | Square cover plates | dull chromium finish | 19098 |
| | for 22 mm (7/8"), | stainless steel effect | 19099 |
| | cylinder, plastic (1 pair) | raw | 19100 |
| | Square cover plates for square lock, | dull chromium finish | 22100 |
| | plastic (1 pair) | stainless steel effect | 22101 |
| | Square cover plate | dull chromium finish | 19101 |
| | for countercasing, | stainless steel effect | 19102 |
| | plastic (1 piece) | raw | 18998 |

Angle profile for wall mounting

Details for angle profile for wall mounting: → page 124

Order specifications

- Quantity lock for all-glass sliding door
- Type of cylinder, 17, 22 mm $(\frac{11}{16}, \frac{11}{8})$ or four-square lock 8 mm $(\frac{5}{16})$
- Type and quantity of cover plates
- Drilling jig
- Counter part requirement for lock for all-glass sliding door:
 - Quantity countercasing, including centering assemblies
 - Quantity lock bracket
 - Quantity and type wall connection profile

Order specifications optional

- · Quantity lock bracket fixture for fixed glass
- Quantity and type spacer for lock bracket
- Quantity and type Security rose for profile cylinder

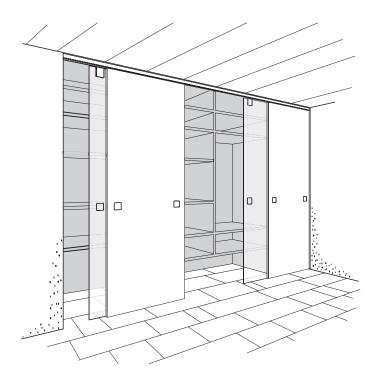
Provided by customer

• Thumbturn with rosette for four-square lock 8 mm (5 mm (5 mm)

Planning/installation

For planning and installation purposes, please use the installation drawing code 17199.

(→ www.hawa.ch → HAWA-Productfinder)



63
2 \(\frac{15}{32}'' \)
\(\frac{1}{32}'' \)
\(\frac{15}{32}'' \)
\(\frac{1}{32}'' \)
\(

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

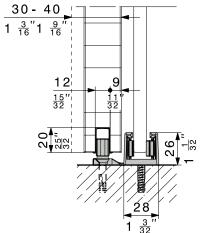
A fit-anywhere, frameless sliding hardware system for wooden and glass sliding doors weighing up to 70 kg (154 lbs.). Ideal not only for walk-in closets, but also for room-height and flexible partitions in residential and office settings. The possibility of combining glass and wood sliding doors gives 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.

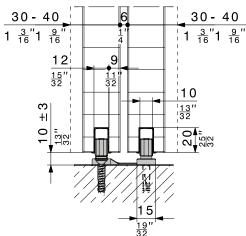
Applications

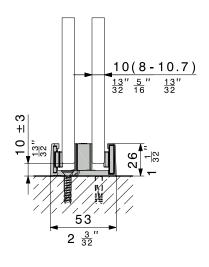
Everywhere that variable space utilisation and unrestricted access should leave a tidy impression, e.g. walk-in closets for office and residential settings, and as a partition or aesthetic room divider in hotels, restaurants, hospitals, schools, offices, and private residential interiors.

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 ")
- Minimum door width 600 mm (1'11 \frac{5}{8}")
- Door thickness, wood 30–40 mm (1 3/16 1 19/32)
- Door thickness, glass:
 - ESG (fully tempered monolithic glass): 8/10 mm $(\frac{5}{16}"/\frac{13}{32}")$ VSG (fully tempered laminated glass): 8,7–10,7 mm $(\frac{11}{32}"-\frac{7}{16}")$
- 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







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

Door stop sets

| | number of doors | code |
|---|-----------------|-------|
| Door stop set for systems with point guidance, incl. single use drilling jig, (ESG¹/VSG²) | 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 |
| THE STATE OF THE S | Single use drilling jig, (ESG ¹ /VSG ²) | 1 | 1 | 1 | 20400 |
| • | Screw-on rubber door stop | 2 | 2 | 2 | 10629 |
| S. A. | Suspsension assembly locking wrench | 1 | 1 | 1 | 10778 |
| | Hex key, 3 mm $(\frac{1}{8}")$ short version | 1 | 1 | 1 | 10785 |
| | Vertical adjustment pin | 1 | 1 | 1 | 16329 |

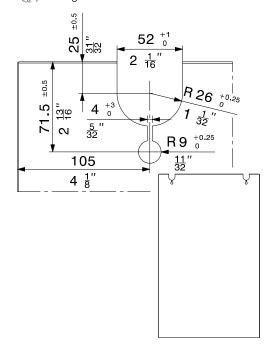
Running tracks

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

Glass cutouts for sliding door

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

- Glass thickness sliding door ESG (fully tempered monolithic glass): $8/10 \text{ mm} \left(\frac{5}{10}\frac{"/3}{32}\right)$, thickness tolerance \pm 0,3 mm
- Glass thickness sliding door VSG (fully tempered laminated glass): $2\times4\pm0.2$ mm \rightarrow film thickness 0,38/0,76/1,52 mm $2\times5\pm0.2$ 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

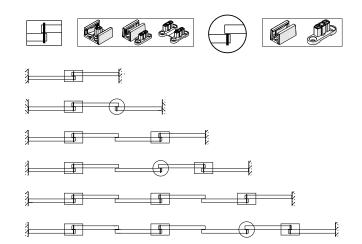


Floor guides

| | 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, 20x12x1300 mm (ईड "x गुंड" x 4'3 गुँड"), groove mounted, set of 10 pieces | 14540 |

Screw-in floor guide variants

Single and dual point guidance.



Cover plates

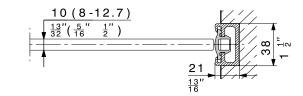
| | | | code |
|--|--|--------------|-------|
| | Rounded cover plate, plastic. | 1 piece | 16049 |
| | dull chromium finish | 4-pieces set | 16042 |
| | Rounded cover plate, plastic. | 1 piece | 17161 |
| | polished chromium finish | 4-pieces set | 17160 |
| | Rounded cover plate, | 1 piece | 16050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

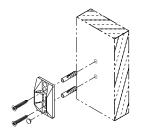
Wall connection profile

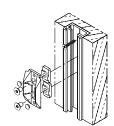
| Caution: Minor differer | nces in colour are | possible | mm/inch | code |
|---|--------------------|-----------------------------|---|-------|
| MD. | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 17020 |
| | Wall profile, | anodized | 3500 (11'5 13") | 17021 |
| | alu, undrilled | stainless- steel effect, | 2500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

Wall connection profile

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





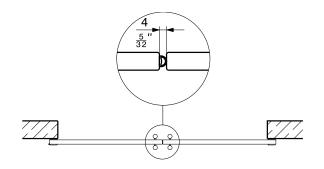


Rubber profile for glass edge protection

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

Rubber profile for glass edge protection

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



Accessories

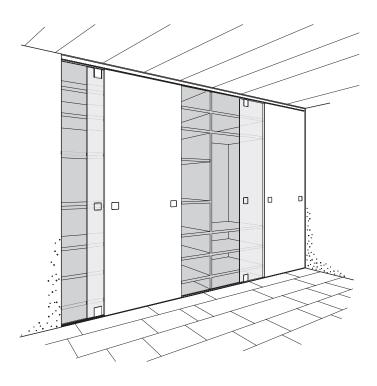
Accessories: → pages 120-129

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. (\rightarrow www.hawa.ch \rightarrow 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

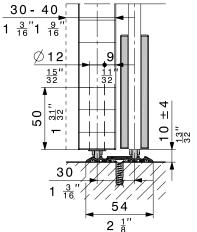
A fit-anywhere, frameless sliding hardware system for wooden and/or glass sliding doors weighing up to 70 kg (154lbs.). Ideal not only for walk-in closets, but also for room-height and flexible partitions in residential and office settings. The possibility of combining glass and wood sliding doors gives 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.

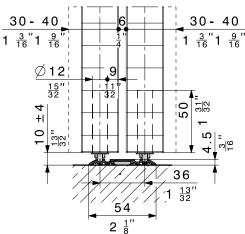
Applications

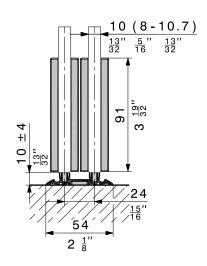
Everywhere that variable space utilisation and unrestricted access should leave a tidy impression, e.g. walk-in closets for office and residential settings, and as a partition or aesthetic room divider in hotels, restaurants, hospitals, schools, offices and private residential interiors.

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 (13 high floor guide track
- Frameless and easy to install
- Doors can slide across the entire opening width
- · Centre stop to hold sliding doors in position
- Maximum door weight 70 kg (154 lbs.)
- Maximum door height 2600 mm (8'6 3 ")
- Minimum door width 600 mm (1'115/8")
 Door thickness, wood 30-40 mm (1 3/16"-132")
- 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 $\left(\frac{3}{32}\right|^{2} \frac{5}{16}\right|^{2}$ minimum clearance between the running track and the top edge of the sliding doors







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

Door stop sets

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

Sets comprising

| | | 20588 | 20591 | 20592 | 20593 | 20594 | code |
|----------|--|-------|-------|-------|-------|-------|-------|
| | Track stop, plastic, with adjustable retainer | 4 | 4 | 4 | 4 | 4 | 10602 |
| | Centre stop, complete | _ | 1 | 2 | 3 | 4 | 19277 |
| THE | Single use drilling jig, (ESG¹/VSG²) | 1 | 1 | 1 | 1 | 1 | 20400 |
| • | Screw-on rubber door stop | 2 | 2 | 2 | 2 | 2 | 10629 |
| 5. M. S. | Suspsension assembly locking wrench | 1 | 1 | 1 | 1 | 1 | 10778 |
| | Hex key, 3 mm $(\frac{1}{8}")$ short version | 1 | 1 | 1 | 1 | 1 | 10785 |
| | Vertical adjustment pin | 1 | 1 | 1 | 1 | 1 | 16329 |

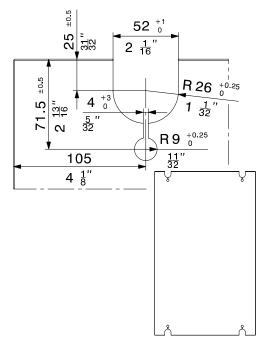
Running tracks

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

Glass cutouts for sliding door

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

- Glass thickness sliding door ESG (fully tempered monolithic glass): $8/10 \text{ mm} \left(\frac{5}{18}\text{m}^{1/3}\right)$, thickness tolerance $\pm 0.3 \text{ mm}$
- Glass thickness sliding door VSG (fully tempered laminated glass): $2\times4\pm0.2$ mm \rightarrow film thickness 0,38/0,76/1,52 mm $2\times5\pm0.2$ 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/bottom guide profile

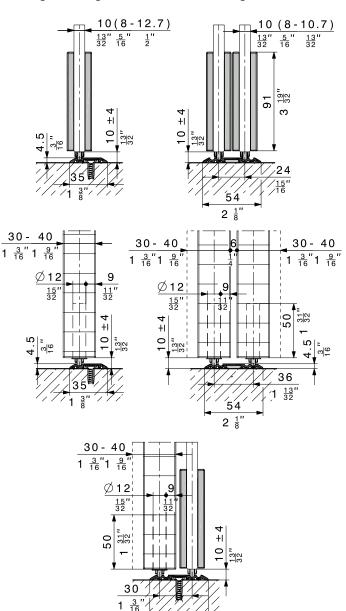
| | | | code | |
|------------------------------------|--|---|-------|--|
| | Spring bottom guide for 1 glass sliding door (ESG¹/VSG²) (2 pieces) | | | |
| ĵŪ | Spring bottom guide for 1 wooden sliding door (2 p | pieces) | 19155 | |
| - Ca | Dual bottom guide channel, alu plain anodized | 2500 mm (8'2 ⁷ / ₁₆ ") | 18944 | |
| | | 3500 mm (11'5 13") | 18945 | |
| | | 6000 mm (19'8 ⁷ / ₃₂ ") | 18824 | |
| | | cut to size | 18946 | |
| | | 2500 mm (8'2 ⁷ / ₁₆ ") | 19348 | |
| | Single bottom guide channel, alu plain | 3500 mm (11'5 13") | 19349 | |
| | anodized | 6000 mm (19'8 ⁷ / ₃₂ ") | 18956 | |
| | | cut to size | 19350 | |
| | Set of fixing parts for single bottom guide channel, 5 pieces (2 pieces per metre) | | | |
| For more guide options: → page 127 | | | | |

Cover plates

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

Floor guide variants

With single bottom guide channel or dual bottom guide channel.

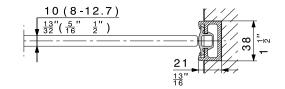


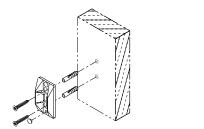
Wall connection profile

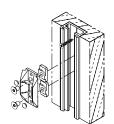
| Caution: Minor differences in colour are possible mm/inch | | | code | |
|---|---|--------------------------|---|-------|
| | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 17020 |
| | Wall profile, alu, undrilled | anodized | 3500 (11'5 13") | 17021 |
| | | stainless- | 2500 (8'2 7 ") | 20119 |
| | | steel effect, brushed | 3500 (11'5 13") | 20120 |
| | Seal profile, black, for wall profile | | roll of 2500 (8'2 7 ") | 16452 |
| | | | roll of 3500 (11'5 13") | 16453 |
| 800 | 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.





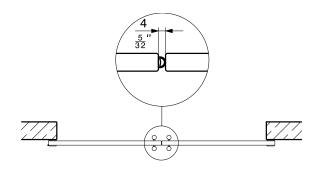


Rubber profile for glass edge protection

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

Rubber profile for glass edge protection

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



Accessories

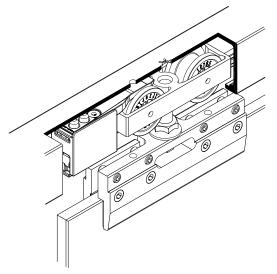
Accessories: → pages 120-129

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. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)



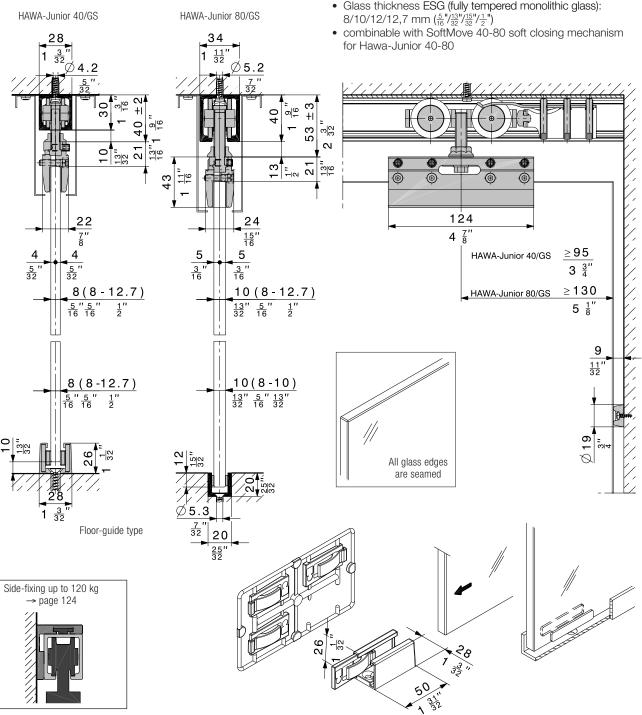
HAWA-Junior hardware system in combination with clamping shoe for all-glass sliding doors up to 40 kg (88 lbs.) or 80 kg (176 lbs.).

Description

The clamp mechanism of the HAWA-Junior 40-80/GS hardware system permits installation of all-glass sliding doors without glass $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2$ cutouts. This means that you can offer your customers time-saving and flexible solutions, together with the high quality of HAWA-Junior

Features of the HAWA-Junior 40-80/GS

- · Without glass cutout
- Special Floor guide, screw mounting, rattle proof, plastic
- Vertical adjustment
- Track stop with adjustable retainer
- Soft closing mechanism SoftMove 80 for HAWA-Junior 80
- Glass thickness ESG (fully tempered monolithic glass):



H A W A -- Junior 40-80/GS

Partial set for single door, without tracks

| | code |
|---|-------|
| HAWA-Junior 40/GS | 25905 |
| HAWA-Junior 80/GS | 17941 |
| For two-panel sliding doors please order two sets for single doors. | |

HAWA-Junior 40/GS, partial set comprising

| | | pieces | code |
|---|--|--------|-------|
| | Two-wheeled trolley, M8, with plastic wheels | 2 | 25898 |
| | Track stop, adjustable retaining force | 2 | 10640 |
| | Clamping shoe, with hanger bolt M8 | 2 | 16131 |
| • | Screw-on rubber door stop | 1 | 10629 |

HAWA-Junior 80/GS, partial set comprising

| | pieces | code |
|---|--------|-------|
| Two-wheeled trolley, M10, with plastic wheels | 2 | 10407 |
| Track stop, adjustable retaining force | 2 | 24497 |
| Clamping shoe, with hanger bolt M10 | 2 | 16132 |
| Screw-on rubber door stop | 1 | 10629 |

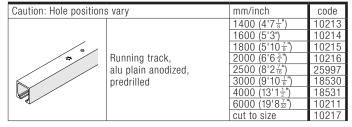
Floor-mounted guides/Bottom door stop

| | | | code |
|--|---|---------------------------|-------|
| | inc. self-adhesive sliders for satinised glass, glass thickness 8–12,7 mm | dull chromium finish | 16029 |
| | | stainless steel effect | 21267 |
| | Self-adhesive sliders 8 mm (5 glass | | 16192 |
| | Self-adhesive sliders 10 mm $\binom{139}{32}$ glass | | |
| | Bottom door stop with centering assembly | dull chromium finish | 20773 |
| | | stainless steel effect | 21473 |

Bottom guide channels

| Caution: Hole positions vary | | mm/inch | code |
|--|--|-------------|-------|
| Bottom guide channel, alu plain anodized, predrilled, 31 x 28 mm (1 \(\frac{7}{32} \) x 1 \(\frac{1}{8} \)") | 6000 (19'8 ⁷ / ₃₂ ") | 13688 | |
| | cut to size | 13690 | |
| Bottom guide channel, alu plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 14414 | |
| predrilled 20 x 20 x 3 mm | | cut to size | 14415 |

Running tracks to HAWA-Junior 40/GS



Running tracks to HAWA-Junior 80/GS

| Caution: Hole positions vary. | | mm/inch | code |
|-------------------------------|---|--|-------|
| | | 1400 (4'7\frac{1}{8}") | 10189 |
| | | 1600 (5'3") | 10190 |
| /。 | | 1800 (5'10 ⁷ / ₈ ") | 10191 |
| * | Running track, alu plain anodized, predrilled | 2000 (6'6 ³ / ₄ ") | 10192 |
| | | 2200 (7'2 ⁵ / ₈ ") | 10193 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 10194 |
| | | 3000 (9'10 ¹ / ₈ ") | 18532 |
| | | 4000 (13'1½") | 18533 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10186 |
| | | cut to size | 10188 |

SoftMove 40-80 soft closing mechanism for Hawa-Junior 40-80

| | code |
|--|-------|
| SoftMove 40 soft closing mechanism for Hawa-Junior 40 (details:→ page 120) | 25987 |
| SoftMove 80 soft closing mechanism for Hawa-Junior 80 (details:→ page 120) | 22444 |

Wall connection profile

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

Accessories

Accessories: → pages 120-129

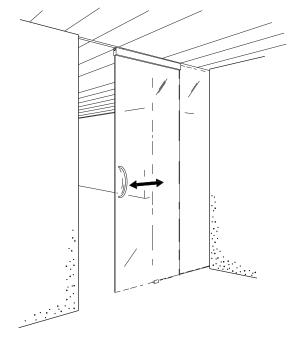
Order specifications

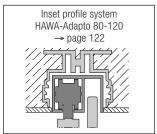
- Type and quantity of partial sets
- Type and length of running tracks
- Type and length of bottom guide channel
- Type and quantity of bottom guides

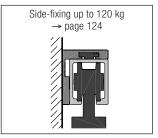
Planning/installation

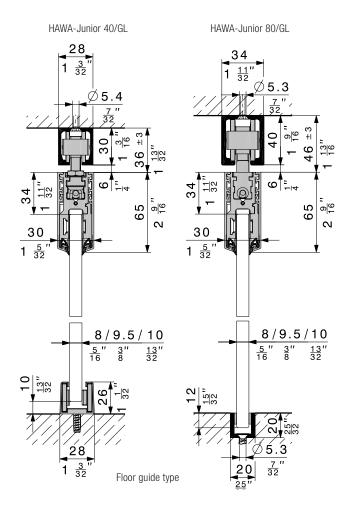
For planning and installation purposes, please use the installation drawing code 16138. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

For convenient operation of sliding doors with soft closing mechanisms, use bow-type handles instead of shell handles.









For unobtrusive, straight-running sliding glass doors.

Hardware system with stainless steel effect or plain anodised finish for all-glass sliding doors weighing up to 40 (88 lbs.) or 80 kg (176 lbs.).

Description

HAWA-Junior 40-80/GL with plain anodised or stainless steel effect cover profiles, running tracks and angle profiles fits in well with any contemporary setting. It offers an efficient and cost-effective solution that is also highly reliable, thanks to tried and tested HAWA-Junior moving parts. Down at floor level, rattle-proof bottom guides ensure quiet

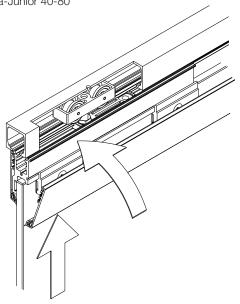
running and keep doors steady in the presence of draughts. HAWA-Junior 40-80/GL hardware is easy to install and absolutely dependable. The dry glazing system requires simple drilling in the glass. The interlocking glass fixing (patented) ensures lasting reliability in use, even under maximum load. Aluminium cover profiles for the slim glass retention profile fit easily, using rubber clips.

Applications

Wherever rooms need closing with unobtrusive, reliable all-glass sliding doors at optimum price/performance, e.g. in hotels, restaurants, conference rooms, airports, office buildings, or even private residential interiors and outdoor applications.

Features of the HAWA-Junior 40-80/GL

- Maximum door weight 40/80 kg (88/176 lbs.)
- Maximum door width 1200 mm (3'11¹/₄")
- Glass thickness sliding door ESG (fully tempered monolithic glass): 8/9,5/10 mm (⁵/₁₈"/³/₃"/³/₃")
- 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 (¹⁷/₂₂")
- Profile height 65 mm (2 ⁹/₁₆")
- Interlocking glass fixing for maximum safety and reliability
- · Gentle, quiet running
- Track stop with adjustable retainer
- · Vertical adjustment without removing the glass door
- · Cover profiles in various anodised finishes
- Rattle proof floor guide for glass sliding doors
- Simple installation
- Further profiles allow fixed glass to be fitted without the hardware being visible
- Can be combined with HAWA-Toplock and wall joint profile, and HAWA-Junior angle profile for wall fixing
- Soft closing mechanism SoftMove 80 for HAWA-Junior 80
- combinable with SoftMove 40-80 soft closing mechanism for Hawa-Junior 40-80



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

HAWA-Junior 40/GL, partial set for single door, without running track

| | code |
|--|-------|
| HAWA-Junior 40/GL, partial set for 1 door | 25906 |
| For two-nanel cliding doors please order two sets for single doors | |

Partial set comprising

| | | pieces | code |
|---------|---|--------|-------|
| | Two-wheeled trolley, M8, with plastic wheels | 2 | 25898 |
| | Suspension plate with hanger bolt M8 | 2 | 19421 |
| | Track stop, adjustable retaining force | 2 | 10640 |
| | Glass retainer profile 240 mm (9 ½"), aluminium | 2 | 19026 |
| | Cover caps for glass retainer profile, plastic, anthracite-grey RAL 7016, set of 2 pieces | 1 | 19927 |
| | Fitting set for 2 glass suspension profiles (1 horizontal profile) | 1 | 19926 |
| | Hex key, 4 mm $(\frac{5}{32}")$, length 160 mm $(6\frac{5}{16}")$ | 1 | 19931 |
| | Adjustment tool for eccentric glass retainer | 1 | 19256 |
| 2° Mari | Adjustment and fixing key for suspension assembly | 1 | 10793 |

Cover profiles

| <u> </u> | | | |
|------------------------|---|--|-------|
| Caution: Minor differe | nces in colour are possible | mm/inch | code |
| | Cover profile, alu unanodized, (to be finished by customer), 2 pieces for 1 horizontal profile, incl. clip-on rubber | 1200 (3'11 ¹ / ₄ ") | 19923 |
| | Cover profile, alu plain anodized, brushed, 2 pieces for 1 horizontal profile, incl. clip-on rubber | 1200 (3'11 ¹ / ₄ ") | 19924 |
| | Cover profile, stainless steel effect, brushed, 2 pieces for 1 horizontal profile, incl. clip-on rubber | 1200 (3'11 ¹ / ₄ ") | 19925 |

Glass fixing parts

| | | thickness of glass | code | |
|--|---|--|-------|--|
| Glass fixing parts for glass retainer profile 240 mm (9 5) | 8 mm (⁵ / ₁₆ ") | 19928 | | |
| | glass retainer profile 240 mm (9 ½) | 9,5 mm (³ / ₈ ") | 19930 | |
| (A) | (1 horizontal profile) | 10 mm (¹³ / ₃₂ ") | 19929 | |
| Glass fixing parts must be ordered to match the glass thickness. | | | | |

HAWA-Junior 80/GL, partial set for single door, without running track

| | code |
|---|-------|
| HAWA-Junior 80/GL, partial set for 1 door | 19933 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | pieces | code |
|---|--------|-------|
| Two-wheeled trolley, M10, with plastic wheels | 2 | 10407 |
| Suspension plate with hanger bolt M10 | 2 | 19937 |
| Track stop, adjustable retaining force | 2 | 24497 |
| Glass retainer profile 240 mm (9 ½"), aluminium | 2 | 19026 |
| Cover caps for glass retainer profile, plastic, anthracite-grey RAL 7016, set of 2 pieces | 1 | 19927 |
| Fitting set for 2 glass suspension profiles (1 horizontal profile) | 1 | 19926 |
| Hex key, 4 mm $(\frac{5}{32}")$, length 160 mm $(6\frac{5}{16}")$ | 1 | 19931 |
| Adjustment tool for eccentric glass retainer | 1 | 19256 |

Running tracks to HAWA-Junior 40/GL

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|---|--|-------|
| | | 1400 (4'7 ¹ / ₈ ") | 10213 |
| | | 1600 (5'3") | 10214 |
| | | 1800 (5'10 ½") 2000 (6'6 ¾") 2500 (8'2 ½") 3000 (9'10 ½") | 10215 |
| ** | Donata a Assala alia alah | | 10216 |
| | Running track, alu plain anodized, predrilled | | 25997 |
| | anouizeu, preumieu | | 18530 |
| | | 4000 (13'1 ¹ / ₂ ") | 18531 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10211 |
| | | cut to size | 10217 |

Running tracks to HAWA-Junior 80/GL

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|--|--|-------|
| | | 1400 (4'71/8") | 10189 |
| | | 1600 (5'3") | 10190 |
| | | 1800 (5'10 ⁷ / ₈ ") | 10191 |
| | | 2000 (6'63") | 10192 |
| | Running track, alu plain | 2200 (7'25") | 10193 |
| , ° | anodized, predrilled | 2500 (8'276") | 10194 |
| | | 3000 (9'10 ¹ / ₈ ") | 18532 |
| | | 4000 (13'1½") | 18533 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10186 |
| | | cut to size | 10188 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 22048 |
| | Running track, | 4000 (13'1½") | 20005 |
| | alu stainless steel effect, brushed, predrilled | 6000 (19'8 ⁷ / ₃₂ ") | 20004 |
| | pradition, prodititon | cut to size | 20006 |

Cover caps for running track

| | | code |
|---|---------------------------|-------|
| HAWA-Junior 40 Cover cap for running track, plastic anthrazite-grey RAL 7016 | | 20901 |
| HAWA-Junior 80 Cover cap for running track, | dull chromium finish | 24956 |
| metal, suitable to both sides, 1 piece | stainless steel effect | 24957 |

SoftMove 40-80 soft closing mechanism for Hawa-Junior 40-80

| | | code |
|------|--|-------|
| | SoftMove 40 soft closing mechanism for Hawa-Junior 40 (details:→ page 120) | 25987 |
| E Je | SoftMove 80 soft closing mechanism for Hawa-Junior 80 (details:→ page 120) | 22444 |

Running track sets to HAWA-Junior 40 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | | mm/inch | code |
|---|--|----------|--|-------|
| * | Running track set to HAWA-Junior 40 | plain | 2000 (6'6 ³ / ₄ ") | 20224 |
| | with fixed glass, alu, predrilled | anodized | 6000 (19'8 ⁷ / ₃₂ ") | 20225 |

Running track set comprising

| | | mm/inch | 20224 | 20225 | code |
|--------------------------------|------------------|--|-------|-------|-------|
| Running track with fixed | plain anodized | 2000 (6'6 ³ / ₄ ") | 1 | | 20101 |
| glass, alu, predrilled | piaiii aiiouizeu | 6000 (19'8 ⁷ / ₃₂ ") | | 1 | 20102 |
| Cover profile to running track | plain anodized | 1250 (4'1 ⁷ / ₃₂ ") | 1 | | 19552 |
| with fixed glass, alu | piaiii ailouizeu | 3000 (9'10 1 ") | | 1 | 19562 |

Running track sets to HAWA-Junior 80 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | | mm/inch | code |
|---|-------------------|---|--|-------|
| HAWA-Junior 80 with fixed glass, | | | 2500 (8'2 ⁷ / ₁₆ ") | 20226 |
| | plain anodized | 4000 (13'1 ¹ / ₂ ") | 20227 | |
| | HAWA-Junior 80 | anouizeu | 6000 (19'8 ⁷ / ₃₂ ") | 20228 |
| | | | 2500 (8'2 ⁷ / ₁₆ ") | 21270 |
| | | stainless steel effect | 4000 (13'1 ¹ / ₂ ") | 21271 |
| | | SIGGI GIIGGI | 6000 (19'8 ⁷ / ₃₂ ") | 21272 |

Running track set comprising

| | | mm/inch | 20226 | 20227 | 20228 | 21270 | 21271 | 21272 | code |
|--------------------------------------|---------------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | | 2500 (8'2 ⁷ / ₁₆ ") | 1 | | | | | | 20104 |
| | plain anodized | 4000 (13'1½") | | 1 | | | | | 20105 |
| Running track | anouizeu | 6000 (19'8 ⁷ / ₃₂ ") | | | 1 | | | | 20106 |
| with fixed glass, alu, predrilled | stainless steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | | | | 1 | | | 21276 |
| aiu, prourincu | | 4000 (13'1½") | | | | | 1 | | 21277 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | | | | | | 1 | 21278 |
| | plain anodized | 1250 (4'132") | 1 | | | | | | 19552 |
| Cover profile to | | 2000 (6'63") | | 1 | | | | | 19553 |
| running track | | 3000 (9'10 ¹ / ₈ ") | | | 1 | | | | 19562 |
| with fixed glass, alu | stainless | 1250 (4'132") | | | | 1 | | | 21280 |
| | steel effect, | 2000 (6'63") | | | | | 1 | | 21281 |
| | brushed | 3000 (9'10 1 ") | | | | | | 1 | 21282 |

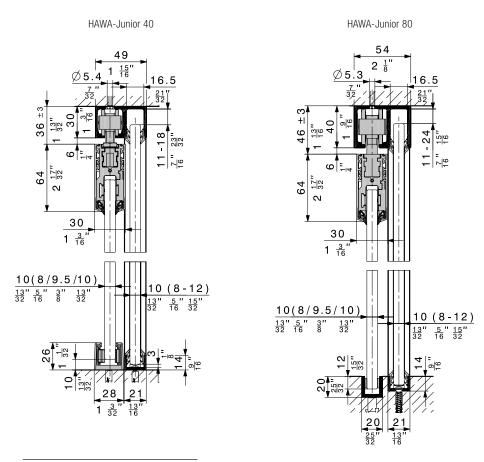
Running track with fixed glass, cut to size

| Caution: Hole position: | s vary | | code |
|-------------------------|--|----------------|-------|
| | Running track, alu, cut to size, | HAWA-Junior 40 | 20103 |
| | | HAWA-Junior 80 | 20107 |
| | Running track, alu, cut to size, stainless steel effect, predrilled | HAWA-Junior 80 | 21279 |
| | Cover profile to running track, alu, cut to size, plain anodized | | 19548 |
| | Cover profile to running trac cut to size, stainless steel e | ' ' | 21284 |

Running track sets with retainers for fixed glass

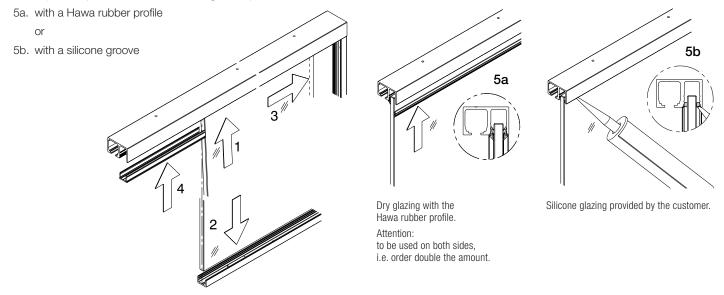
Our running track sets with integrated retainers for fixed glass add an extremely versatile and user-friendly partitioning system to the HAWA-Junior family.

The glass element is simply positioned in the track's fixed glass retainer. Glass cut-outs and visible hardware are now no longer necessary. A retainer profile for wall and floor fitting provides sufficient stability, whether flush or mounted. A Hawa rubber profile or a silicone groove hold the glass in position and prevent humidity seeping between glass and track. The running track set also has a cover profile made of aluminium which simply clips into and closes the fixed glass retainer in the walk-through area – a solution which is both easy to use and pleasing to the eye.



Easy fitting of fixed glass

- 1. Slide glass element into fixed glass retainer at the top
- Position the glass on the spacing block in the floor profile and/or
- 3. slide sideways into the wall profile
- 4. Clip cover profile into the walk-through area profile and seal



Bottom guide channel to HAWA-Junior 40-80/GL

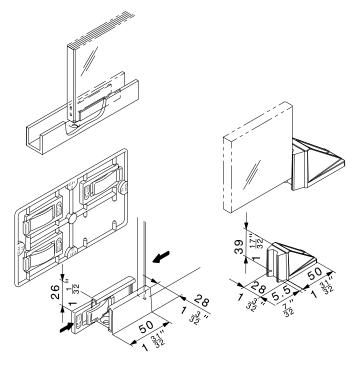
| Caution: Hole positi | Caution: Hole positions vary | | code |
|---|---|---|-------|
| Bottom guide channel, alu plain anodized, | | 6000 (19'8 ⁷ / ₃₂ ") | 14414 |
| | predrilled, 20 x 20 mm (ﷺ x 💯 x 💯) | cut to size | 14415 |
| Self-adhesive sliders 8 mm (ई") glass | | | 16192 |
| Self-adhesive sliders 10 mm (13") glass | | 16193 | |

Floor-mounted guides/Bottom door stopper

| Caution: Minor differences in colour are possible | | | code |
|---|--|---------------------------|-------|
| | Rattle-proof floor guide inc. self-adhesive sliders for satinised glass, glass | dull chromium finish | 16029 |
| | thickness 8–12,7 mm $\left(\frac{5}{16} - \frac{1}{2}\right)$ | stainless steel effect | 21267 |
| | Distance plate to bottom guide | | |
| | Bottom door stop | dull chromium finish | 20773 |
| | with centering assembly | stainless steel effect | 21473 |

Bottom guide / Bottom door stopper

16193 sliders can be used for 9,5 mm ($\frac{3}{8}$ ") glass.



Floor guide, screw mounting, rattle proof

Bottom door stopper

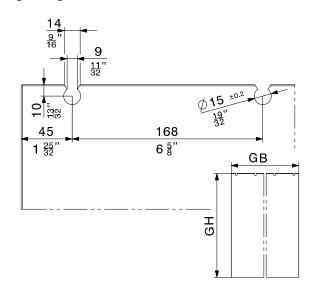
Glass cutouts/Glass calculation - sliding doors

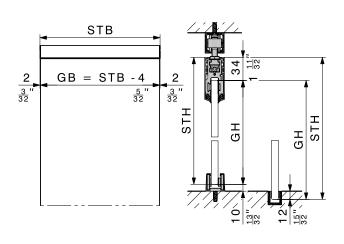
Only glass ESG (fully tempered monolithic glass) may be used.

- 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

Fixed glass without glass cutouts

- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass) 8–12mm (⁵/₁₆ – ¹⁵/₃₂) with silicone up to 13 mm (¹⁷/₃₂)
- All glass edges are seamed





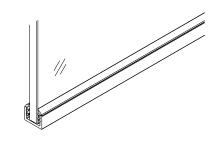
Subject to modification. Metric specifications are exact. Inches are approximate.

Bottom, wall and rubber profile to fixed glass

| | Caution: - Hole positions vary - Minor differences in colour are possible | | code |
|--|--|--|-------|
| | Bottom/wall profile to fixed | 4000 (13'1 ¹ / ₂ ") | 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 | 4000 (13'1 ¹ / ₂ ") | 21285 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 21286 |
| | effect, brushed, predrilled | cut to size | 21287 |
| | Rubber profile, black to fixed glass $8-9.9 \text{ mm} \left(\frac{5}{16} - \frac{13}{32}\right)$ | | 25787 |
| | Rubber profile, black to fixed glass $10-12 \text{ mm} \left(\frac{13}{32} - \frac{15}{32}\right)$ | roll of 10 m (32'9 ²³ ") | 25789 |
| | Rubber profile, black to fixed glass 12.1–13.1 mm $(\frac{15^{"}}{32} - \frac{17"}{32})$ | | 25763 |

Bottom/wall profile to fixed glass

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



Vertical sealing profile

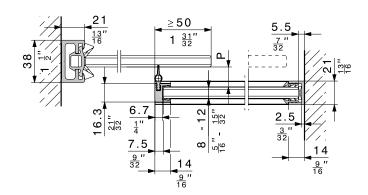
| Caution: Minor differer | nces in colour are possib | le | mm/ inch | code |
|--|---------------------------|--|--|-------|
| alu, for all-glass sliding doors with fixed glass, set for glass distance 13–18,5 mm (½" – ¾") | plain | 2500 (8'2 ⁷ / ₁₆ ") | 20283 | |
| | alu, for all-glass | anodized | 3500 (11'5 ¹³ ") | 20284 |
| | set for glass distance | stainless steel effect, | 2500 (8'2 ⁷ / ₁₆ ") | 21290 |
| | 10 10,0 11111 (32 4 / | brushed | 3500 (11'5 13") | 21291 |

Glass distance «P» for vertical sealing

| | Glass thickness sliding door | Vertical seal | Glass distance «P» |
|-------------------|---|---------------|--|
| HAWA-Junior 40/GL | 8–10 mm | 13/18 | 13-16 mm (¹⁷ / ₃₂ - ⁵ / ₈ ") |
| HAWA-Junior 80/GL | $\left(\frac{5}{16} - \frac{13}{32}\right)$ | 13/10 | 15–18 mm (¹⁹ / ₃₂ – ²³ / ₃₂ ") |

Vertical sealing profile

The vertical sealing profile is effective against draughts. The slim aluminium profile affixes frontally to glass elements 8–12 mm $(\frac{5}{16} - \frac{15}{32})$ 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.

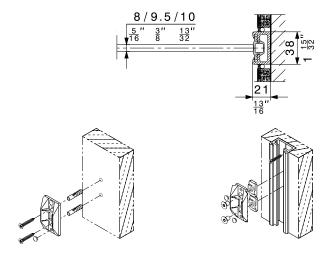


Wall connection profile

| Caution: Minor differences in colour are possible | | | mm/inch | code |
|---|---|-----------------|---|-------|
| | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 17020 |
| | Wall profile, | anodized | 3500 (11'5 13") | 17021 |
| | alu, undrilled | stainless- | 2500 (8'2 7 ") | 20119 |
| | steel effect, brushed | 3500 (11'5 13") | 20120 | |
| | Seal profile, black, | | | 16452 |
| | for wall profile | | roll of 3500 (11'5 18") | 16453 |
| 300 | Centering assembly black for all glass sliding doors, to wall profile | | | 18663 |
| Centering assembly grey for all glass sliding doors | | | 18619 | |

Wall connection profile

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

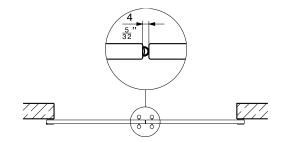


Rubber profile for glass edge protection

| | | roll of | code |
|--|---|---|-------|
| | Rubber profile self-adhesive, | 5 m (16'4 ²⁷ ") | 19442 |
| | alace distance 4 mm (5") | 10 m (32'9 ²³ / ₃₂ ") | 19443 |
| | | 50 m (164'½") | 19444 |
| | Rubber profile self-adhesive, for 8/10 mm $(\frac{5}{16})^{\prime\prime}(\frac{33}{32})$ glass thickness, translucent, glass distance 4 mm $(\frac{5}{32})$ | 5 m (16'4 ²⁷ / ₃₂ ") | 19445 |
| | | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| | | 50 m (164'½") | 19447 |

${\bf Rubber\ profile\ for\ glass\ edge\ protection}$

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



Fitting sets to HAWA-Adapto 80-120

| | mm/inch | code |
|-------------------------|---|---|
| Fitting sets to | to 2500 (8'2 ⁷ 16") | 22841 |
| HAWA-Adapto 80, | 2501 to 4000 (8'2 $\frac{15}{32}$ " to 13'1 $\frac{1}{2}$ ") | 22841 ") 22842 \(\frac{1}{2}\)") 22843 20232 ") 20233 |
| with countersunk screws | 4001 to 6000 (13'1½" to 19'8½") | 22843 |
| Fitting sets to | to 2500 (8'2 ₇₆ ") | 20232 |
| HAWA-Adapto 120, | 2501 to 4000 (8'2 $\frac{15}{32}$ " to 13'1 $\frac{1}{2}$ ") | 20233 |
| with pan head screws | 4001 to 6000 (13'1 $\frac{17"}{32}$ " to 19'8 $\frac{7}{32}$ ") | 20234 |

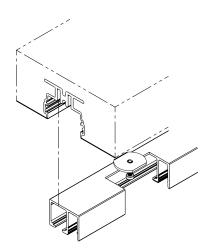
Set comprising

| | | mm/ inch | 22841 | 22842 | 22843 | 20232 | 20233 | 20234 | code |
|--|--|-------------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 (16") | 2 | 2 | 3 | 2 | 2 | 3 | 19398 |
| (A STATE OF THE S | Distance plate, plastic | 2 (33") | 2 | 2 | 3 | 2 | 2 | 3 | 19399 |
| 1948 | | 3 (1/8") | 2 | 2 | 3 | 2 | 2 | 3 | 19400 |
| | | 5 (32") | 4 | 4 | 6 | 4 | 4 | 6 | 19401 |
| ARTH STATE | Special countersunl screws, 6 x 21 mm set of 10 pieces | | 1 | 2 | 3 | _ | _ | _ | 22844 |
| ARREACH. | Special pan head so $6 \times 22 \text{ mm } (\frac{1}{4}\text{"} \times \frac{7}{8}\text{"}),$ set of 10 pieces | | _ | _ | _ | 1 | 2 | 3 | 20215 |

Fitting set to HAWA-Adapto 80-120

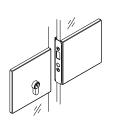
The HAWA-Junior running tracks both with and without a bottom profile for fixed glass can be screwed into the embedded HAWA-Adapto profile using special adjustable screws.

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 4 m (13'1 $\frac{1}{2}$ "). For details on the HAWA-Adapto 80-120: \rightarrow supplementary parts

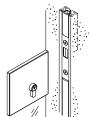


Better safe than sorry

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.

Accessories

Accessories: → pages 120-129

Order specifications

- Type and quantity of partial sets
- Type and quantity of cover profiles
- Type and quantity of glass fixing parts
- Type and length of running tracks
- Type and quantity of floor-mounted guides

Order specifications optional

- Quantity of bottom door stopper
- Type and length of wall profile
- Type and length of seal profile to wall profile
- Type and quantity of centering assemblies for wall connection
- Type and length of rubber profile for glass edge protection

Order specifications fixed glass

- Type and quantity of running tracks with fixed glass
- Type and quantity of fitting sets

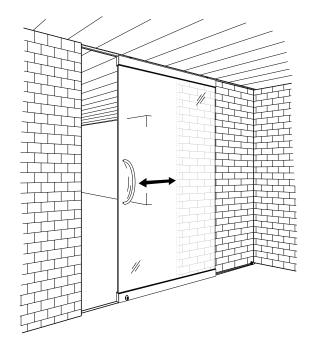
Optional order specification fixed glass

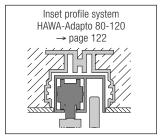
- Type and quantity of bottom-/wall profile
- · Type and quantity of rubber profile to fixed glass
- Type and quantity of vertical sealing profile

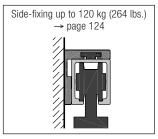
Planning/installation

For planning and installation purposes, please use the installation drawing code 19918. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

For convenient operation of sliding doors with soft closing mechanisms, use bow-type handles instead of shell handles.



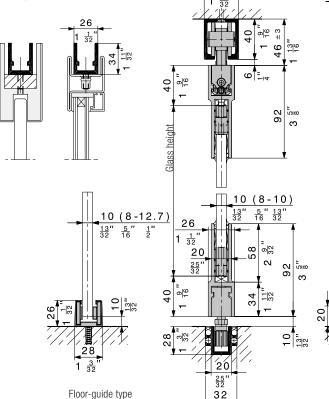




HAWA-Junior 80/G

Hawa-advantage

Hawa offers a suspension profile (12915) which permits the use of either a standard or a customised top-fixed glass suspension/retainer profile.



 $1\frac{1}{4}'$

Hardware systems for all-glass sliding doors weighing up to 80, 120 and 160 kg (176, 264 and 352 lbs.).

Description

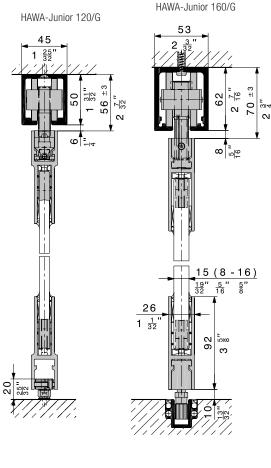
The HAWA-Junior 80-120-160/G is a truly robust sliding-door hardware system for all-glass sliding doors with top-fixed suspension. Its top-fixed suspension and glass retainer can also be used for fixed glass panels and doors, and thus provide ideal prerequisites for a uniform complete solution.

Applications

This hardware system is suitable for use wherever there is a need for combining top quality with smooth and quiet operation, e.g. in residential and public buildings, industrial premises or the administrative sector.

Features of the HAWA-Junior 80-120-160/G

- Two-wheeled trolley, with plastic wheels
- Track stop with adjustable retainer
- Glass thickness sliding door ESG (fully tempered monolithic glass): 8–16 mm $(\frac{5}{16} \frac{5}{8})$
- Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass): $8-12 \text{ mm} \left(\frac{5}{16} \frac{15}{32}\right)$ with silicone up to 13 mm $\left(\frac{17}{12}\right)$
- Smooth and quiet operation
- · Vertical adjustment
- Special floor guide, screw mounting, rattle proof, for glass sliding doors
- Further profiles allow fixed glass to be fitted without the hardware being visible
- Soft closing mechanism SoftMove 80 for HAWA-Junior 80
- combinable with SoftMove 80-120 soft closing mechanism for Hawa-Junior 80-120



HAWA-Junior 80/G, partial set, without running track

| | code |
|---|-------|
| HAWA-Junior 80/G, partial set for single door ESG ¹ | 11689 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | | pieces | code |
|-----|--|--------|-------|
| | Two-wheeled trolley, M10, with plastic wheels | 2 | 10407 |
| | Suspension plate with hanger bolt M10 | 2 | 10476 |
| | Track stop, adjustable retaining force | 2 | 24497 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | 2 | 20907 |
| 9 | Screw-on rubber door stop | 1 | 10629 |
| 5 M | Suspsension assembly locking wrench | 1 | 10778 |

HAWA-Junior 80, 10-pieces sets

| | code |
|--|-------|
| Two-wheeled trolley, M10, with plastic wheels, 10-pieces set | 25952 |
| Track stop, adjustable retaining force, 10-pieces set | 25962 |

HAWA-Junior 120/G, partial set, without running track

| | code |
|---|-------|
| HAWA-Junior 120/G, partial set for single door ESG ¹ | 25910 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | pieces | code |
|--|--------|-------|
| Two-wheeled trolley, M12, with plastic wheels | 2 | 25900 |
| Suspension plate with hanger bolt M12 | 2 | 15294 |
| Track stop, adjustable retaining force | 2 | 14858 |
| Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | 2 | 20907 |
| Screw-on rubber door stop | 1 | 10629 |
| Suspension assembly locking wrench | 1 | 14861 |

HAWA-Assembly wedge for HAWA-Junior 80/G and 120/G

| | | code |
|---|---|-------|
| 9 | HAWA-Assembly wedge for sliding doors running in the ceiling, set for 1 sliding door (details:→ page 126) | 15770 |

HAWA-Junior 160/G, partial set, without running track

| | code |
|---|-------|
| HAWA-Junior 160/G, partial set for single door ESG ¹ | 12219 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | . - | pieces | code |
|----------|--|--------|-------|
| | Two-wheeled trolley, M14, with plastic wheels and hanger bolt M14 | 2 | 10424 |
| | Suspension plate, M14, with fixing screws | 2 | 10471 |
| A | Track stop, adjustable retaining force | 2 | 10639 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | 2 | 20907 |
| | Screw-on rubber door stop | 1 | 13114 |

Interlocking glass retainer

| | | code | |
|--|--|-------|--|
| | Glass holder insert, plastic, with screw M6 x 30 mm | 10792 | |
| 2 pieces per glass suspension/retainer profile | | | |

Glass suspension/retainer profile

| | | mm/inch | code |
|--|---|---|-------|
| | Glass suspension/retainer profile, alu plain anodized, | 6500 (21'3 ²⁹ / ₃₂ ") | 21783 |
| | brushed undrilled, glass up to 16 mm $(\frac{5}{8})$ | cut to size | 21784 |
| | Glass suspension/retainer profile, alu unanodized, | 6500 (21'3 ²⁹ / ₃₂ ") | 13158 |
| | undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 13159 |
| | Cover cap for glass suspension 21783/21784/13158/131 plastic anthracite-grey RAL | | |
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 10 mm (32") Glass suspension/retainer profile, alu unanodized, undrilled, glass up to 10 mm (32") | 6500 (21'3 ²⁹ ") | 21781 |
| | | cut to size | 21782 |
| | | 6500 (21'3 ²⁹ ") | 10348 |
| | | cut to size | 10349 |
| | Cover cap for glass suspension 21781/21782/10348/103 plastic anthracite-grey RAL | | |
| | Multi purpose suspension | 6500 (21'3 🖑 ") | 10345 |
| | and retainer profile, alu plain anodized, undrilled | cut to size | 12915 |

Running tracks to HAWA-Junior 80/G

| Caution: - Hole positio - Minor differ | ns vary ences in colour are possible | mm/inch | code |
|---|---|--|-------|
| | | 1400 (4'71/8") | 10189 |
| | | 1600 (5'3") | 10190 |
| | | 1800 (5'10 ⁷ / ₈ ") | 10191 |
| | Running track, | 2000 (6'63") | 10192 |
| /。, | alu plain anodized, predrilled | 2200 (7'25") | 10193 |
| */ | | 2500 (8'2 ⁷ / ₁₆ ") | 10194 |
| | | 3000 (9'10 ½") | 18532 |
| | | 4000 (13'1½") | 18533 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10186 |
| | | cut to size | 10188 |
| | Running track, | 2500 (8'2 ⁷ / ₁₆ ") | 22048 |
| | , , | 4000 (13'1½") | 20005 |
| | alu stainless steel effect, | 6000 (19'8 ⁷ / ₃₂ ") | 20004 |
| | brushed, predrilled | cut to size | 20006 |

Running tracks to HAWA-Junior 120/G

| Caution: Hole positions | s vary | mm/inch | code |
|-------------------------|--------------------------|--|-------|
| | | 2500 (8'2 ⁷ / ₁₆ ") | 14866 |
| /* '/ | Running track, alu plain | 3000 (9'10 ¹ / ₈ ") | 14867 |
| | anodized, predrilled | 4000 (13'1½") | 14868 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 14869 |
| *4 | | cut to size | 14871 |

Running tracks to HAWA-Junior 160/G

| Caution: Hole positions | s vary | mm/inch | code |
|---|---------------------|--|-------|
| | | 3000 (9'10 ½") | 24608 |
| | Running track, | 4000 (13'1½") | 24607 |
| | alu plain anodized, | 5000 (16'4 27") | 24606 |
| | predrilled | 6000 (19'8 ⁷ / ₃₂ ") | 24605 |
| | | cut to size | 24609 |
| Connecting pins for profiles, set of 2 pieces | | 21347 | |

Cover cap for running track

| | | code |
|--|---------------------------|-------|
| HAWA-Junior 80 Cover cap for running | dull chromium finish | 24956 |
| track, metal, suitable to both sides, 1 piece | stainless steel effect | 24957 |
| HAWA-Junior 120 Cover cap for running track, metal, suitable to both sides, 1 piece | dull chromium finish | 25332 |

Bottom guide channels/bottom door stop

| | _ | | |
|------------------------|--|---|-------|
| Caution: Hole position | s vary | | code |
| | Bottom guide channel, alu plain anodized, predrilled, | 6000 mm (19'8 ⁷ / ₃₂ ") | 13688 |
| | 31 x 28 mm (1 ⁷ / ₃₂ " x 1 ¹ / ₈ ") | cut to size | 13690 |
| | Connecting bolt, Ø 6 x 40 m | $\lim \left(\frac{1}{4} \times 1\frac{19}{32}\right)$ | 13759 |
| | Guide with plastic slider, rattle proof, 14 mm ($\frac{0}{16}$) and suspension block | | 13781 |
| | Rattle-proof floor mounted guide, with wheels (surface mounted lock not possible) | | |
| | Rattle-proof floor guide inc. self-adhesive sliders | dull chromium finish | 16029 |
| | for satinised glass, glass thickness 8–12,7 mm $\left(\frac{5}{16}-\frac{1}{2}\right)$ | stainless steel effect | 21267 |
| (a) (d) | Distance plate to bottom guide | | 16657 |
| | Bottom door stop | dull chromium finish | 20773 |
| | with centering assembly | stainless steel effect | 21473 |

Running track sets to HAWA-Junior 80 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code | |
|---|---|-------------------|--|-------|
| /- | Running track set to HAWA-Junior 80 | | 2500 (8'2 ⁷ / ₁₆ ") | 20226 |
| / # " / | | plain anodized | 4000 (13'1 ¹ / ₂ ") | 20227 |
| set to | | anouizou | 6000 (19'8 ⁷ / ₃₂ ") | 20228 |
| | | stainless | 2500 (8'2 ⁷ / ₁₆ ") | 21270 |
| | | steel effect. | 4000 (13'1 ¹ / ₂ ") | 21271 |
| | | brushed | 6000 (19'8 ⁷ / ₃₂ ") | 21272 |

Running track sets comprising

| | | mm/inch | 20226 | 20227 | 20228 | 21270 | 21271 | 21272 | code |
|---------------------------------|---------------------------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | | 2500 (8'2 ⁷ / ₁₆ ") | 1 | | | | | | 20104 |
| | plain anodized | 4000 (13'1½") | | 1 | | | | | 20105 |
| Running track with fixed glass, | allouizeu | 6000 (19'8 ⁷ / ₃₂ ") | | | 1 | | | | 20106 |
| alu, predrilled | stainless steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | | | | 1 | | | 21276 |
| ara, prodrinou | | 4000 (13'1½") | | | | | 1 | | 21277 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | | | | | | 1 | 21278 |
| | plain anodized | 1250 (4'132") | 1 | | | | | | 19552 |
| Cover profile to | | 2000 (6'63") | | 1 | | | | | 19553 |
| running track | | 3000 (9'10 ¹ / ₈ ") | | | 1 | | | | 19562 |
| with fixed glass, alu | stainless | 1250 (4'132") | | | | 1 | | | 21280 |
| | steel effect, | 2000 (6'63") | | | | | 1 | | 21281 |
| | brushed | 3000 (9'10 ¹ / ₈ ") | | | | | | 1 | 21282 |

Running track sets to HAWA-Junior 120 with fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code | |
|---|---|--|-----------------|-------|
| * . | Running track set | | 3000 (9'10 1 ") | 20229 |
| with fixed glass to pl | with fixed glass to HAWA-Junior 120, | plain anodized | 4000 (13'1½") | 20230 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 20231 | |

Running track sets comprising

| | | mm/inch | 20229 | 20230 | 20231 | code |
|---|------------------|--|-------|-------|-------|-------|
| Dunning trook with fixed | | 3000 (9'10 ½") | 1 | | | 20235 |
| Running track with fixed glass, alu, predrilled | plain anodized | 4000 (13'1½") | | 1 | | 20054 |
| giass, aiu, preurifieu | | 6000 (19'8 ⁷ / ₃₂ ") | | | 1 | 20055 |
| Cover profile to running | plain anodized | 2000 (6'6 3") | 1 | 1 | | 19553 |
| track with fixed glass, alu | piaili allouizeu | 3000 (9'10 ½") | | | 1 | 19562 |

Running tracks with fixed glass, cut to size

| Caution: Hole positions vary | | | |
|--|---|---|-------|
| cut to size, plain anodized, predrilled Running track, alu, cut to size, stainles | Running track, alu, | HAWA-Junior 80 | 20107 |
| | anodized, predrilled | HAWA-Junior 120 | 20056 |
| | Running track, alu, cut to size, stainless steel effect, predrilled | HAWA-Junior 80 | 21279 |
| | Cover profile to running track, alu, cut to size, plain anodized | | 19548 |
| | | Cover profile to running track, alu, cut to size, stainless steel effect | |

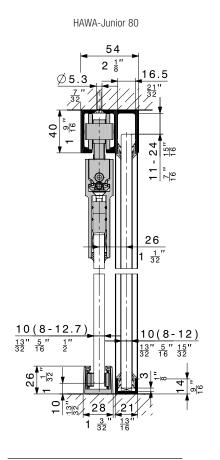
SoftMove 80-120 soft closing mechanism for Hawa-Junior 80-120

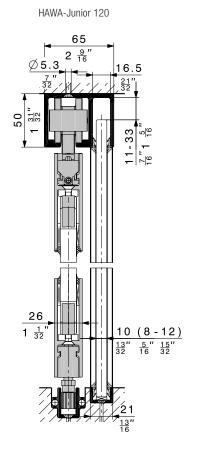
| | | code |
|--|--|-------|
| Service Servic | SoftMove 80 soft closing mechanism for Hawa-Junior 80 (details:→ page 120) | 22444 |
| | SoftMove 120 soft closing mechanism for Hawa-Junior 120 (details:→ page 120) | 25988 |

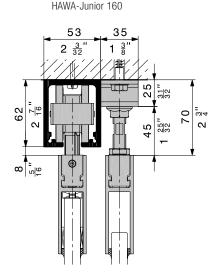
Running track sets with retainers for fixed glass

Our running track sets with integrated retainers for fixed glass add an extremely versatile and user-friendly partitioning system to the HAWA-Junior family.

The glass element is simply positioned in the track's fixed glass retainer. Glass cut-outs and visible hardware are now no longer necessary. A retainer profile for wall and floor fitting provides sufficient stability, whether flush or mounted. A Hawa rubber profile or a silicone groove hold the glass in position and prevent humidity seeping between glass and track. The running track set also has a cover profile made of aluminium which simply clips into and closes the fixed glass retainer in the walk-through area – a solution which is both easy to use and pleasing to the eye.





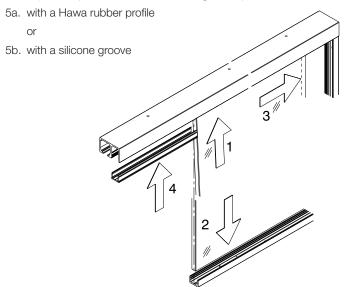


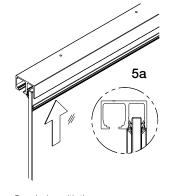
The suspension bracket set number 14687 is available for this fixed glass component.

Details: → page 61

Easy fitting of fixed glass

- 1. Slide glass element into fixed glass retainer at the top
- Position the glass on the spacing block in the floor profile and/or
- 3. slide sideways into the wall profile
- 4. Clip cover profile into the walk-through area profile and seal





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

5b

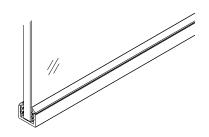
Silicone glazing provided by the customer.

Bottom, wall and rubber profile to fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|---|--|-------|
| | Bottom/wall profile to fixed | 4000 (13'1 ¹ / ₂ ") | 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 (13'1½") | 21285 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 21286 |
| | | cut to size | 21287 |
| | Rubber profile, black to fixed glass $8-9.9 \text{ mm} \left(\frac{5}{16}\text{"}-\frac{13}{32}\text{"}\right)$ | | 25787 |
| | Rubber profile, black to fixed glass 10–12 mm $(\frac{13}{32}$ $-\frac{15}{32}$ $)$ | roll of 10 m (32'9 ²³ ") | 25789 |
| | Rubber profile, black to fixed glass $12.1-13.1 \text{ mm} \left(\frac{15}{32} - \frac{17}{32}\right)$ | | 25763 |

Bottom/wall profile to fixed glass

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

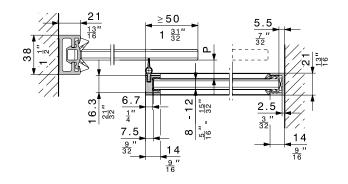


Vertical sealing profile

| Caution: Minor differen | nces in colour are possible | Э | mm | code |
|-------------------------|--|----------------------------|------|-------|
| | Vertical seal 13/18, | plain | 2500 | 20283 |
| | alu, for all-glass sliding | anodized | 3500 | 20284 |
| | doors wtih fixed glass, set for glass distance | stainless steel effect. | 2500 | 21290 |
| | 13-10,3 11111 (32 - 4 / | brushed | 3500 | 21291 |
| | Vertical seal 20/22, alu, for all-glass sliding doors wtih fixed glass, | plain | 2500 | 20650 |
| | set for glass distance $20-22 \text{ mm} \left(\frac{55}{32} - \frac{7}{8}\right)$ | anodized | 3500 | 20651 |

Vertical sealing profile

The vertical sealing profile is effective against draughts. The slim aluminium profile affixes frontally to glass elements $8-12~\text{mm}\,(\frac{5}{10}\text{m}-\frac{15}{32}\text{m})$ 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.



Glass distance «P» for vertical sealing profile

| | glass thickness sliding door | Vertical seal | glass distance «P» |
|------------------|---|---------------|--|
| HAWA-Junior 80/0 | 8-13 mm | 13/18 | 15-17 mm (\frac{19"}{32}"-\frac{11"}{16}") |
| HAWA-Junior 120 | G $\left(\frac{5}{16}" - \frac{17}{32}"\right)$ | 20/22 | 20-22 mm (25 - 7 - 7) |

Fitting sets to HAWA-Adapto 80-120

| | mm/inch | code |
|---|---|-------|
| Fitting sets to | to 2500 (8'2 ⁷ / ₁₆ ") | 22841 |
| HAWA-Adapto 80, | 2501 to 4000 (8'2 $\frac{15}{32}$ " to 13'1 $\frac{1}{2}$ ") | 22842 |
| with countersunk screws | 4001 to 6000 (13'1 $\frac{17}{32}$ " to 19'8 $\frac{7}{32}$ ") | 22843 |
| Fitting sets to HAWA-Adapto 120, with pan head screws | to 2500 (8'2 ⁷ / ₁₆ ") | 20232 |
| | 2501 to 4000 (8'2 $\frac{15}{32}$ " to 13'1 $\frac{1}{2}$ ") | 20233 |
| | 4001 to 6000 (13'1 $\frac{17"}{32}$ " to 19'8 $\frac{7}{32}$ ") | 20234 |

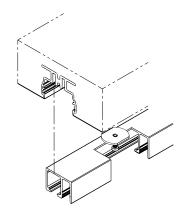
Fitting set to HAWA-Adapto 80-120

The HAWA-Junior running tracks both with and without a bottom profile for fixed glass can be screwed into the embedded HAWA-Adapto profile using special adjustable 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 4 m (13'1 $\frac{1}{2}$ ").

For details on the HAWA-Adapto 80-120: \rightarrow supplementary parts on page 122

Set comprising

| | | mm/ inch | 22841 | 22842 | 22843 | 20232 | 20233 | 20234 | code |
|--|--|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 (1/16") | 2 | 2 | 3 | 2 | 2 | 3 | 19398 |
| | Distance plate, | 2 (32") | 2 | 2 | 3 | 2 | 2 | 3 | 19399 |
| Series . | plastic | 3 (18") | 2 | 2 | 3 | 2 | 2 | 3 | 19400 |
| | | 5 (⁷ / ₃₂ ") | 4 | 4 | 6 | 4 | 4 | 6 | 19401 |
| Charles of the Control of the Contro | Special countersund screws, 6 x 21 mm set of 10 pieces | | 1 | 2 | 3 | _ | _ | 1 | 22844 |
| ARRIVER. | Special pan head screws, 6 x 22 mm $(\frac{1}{4}$ " x $\frac{7}{8}$ "), set of 10 pieces | | _ | _ | _ | 1 | 2 | 3 | 20215 |



Wall connection profile

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

Protective transparent edge trims

| | | Glass | mm/inch | code |
|---|--|--|---|-------|
| _ | | 10 mm | 3000 (9'10 ¹ / ₈ ") | 13822 |
| | | (13") | 6000 (19'8 ⁷ / ₃₂ ") | 13600 |
| | Protective | 12 mm | 3000 (9'10 ¹ / ₈ ") | 13908 |
| | transparent edge profile, plastic | $(\frac{15}{32}")$ | 6000 (19'8 ⁷ / ₃₂ ") | 13907 |
| | 12,7 mm (½") | 12,7 mm | 3000 (9'10 ¹ / ₈ ") | 13912 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 13911 | |
| | Double-sided adhesive tape for protective edge trim | | roll of 50 m (164'½") | 13988 |
| | Rubber profile self | | 5 m (16'4 ²⁷ ") | 19442 |
| | for 8/10 mm ($\frac{5}{16}$ "/ $\frac{15}{32}$ " thickness, black, | ") glass | 10 m (32'9 ²³ / ₃₂ ") | 19443 |
| | glass distance 4 mm $(\frac{5}{32}")$ | | 50 m (164'½") | 19444 |
| | Rubber profile self | | 5 m (16'4 ²⁷ ") | 19445 |
| | for 8/10 mm ($\frac{5}{16}$ "/ $\frac{13}{32}$) thickness, transluce | | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| | glass distance 4 mm $(\frac{5}{32}")$ | | 50 m (164'½") | 19447 |

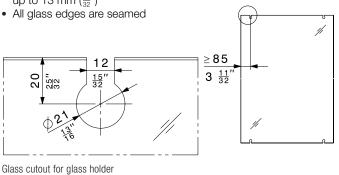
Glass cutouts - sliding doors

The glass ESG (fully tempered monolithic glass) must be provided with cutouts for installation of the glass holder inserts and the safety locks.

- Glass thickness sliding door: ESG (fully tempered monolithic glass) $8-16 \text{ mm} \left(\frac{5}{16} \frac{5}{8}\right)$, thickness tolerance $\pm 0.3 \text{ mm}$
- All glass edges are seamed; maximum 1 mm $(\frac{1}{16}")$ in the glass cutout

Fixed glass without glass cutouts

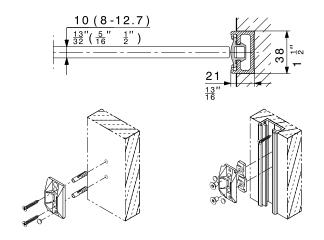
 Glass thickness fixed glass ESG (fully tempered monolithic glass)/ VSG (fully tempered laminated glass) 8–12mm (⁵/₁₆ – ¹⁵/₃₂") with silicone up to 13 mm (¹⁷/₃₂")



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

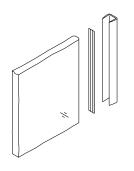
Wall connection profile

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



Glass edge protection

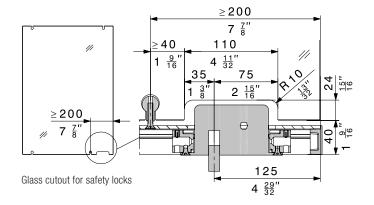
A transparent glass edge protection profile and the self-adhesive rubber profile are recommended to protect vertical glass edges. The latter not only protects the glass edge, but also reduces draughts to a minimum.



The glass edge protection profile is made of transparent plastic and is fitted to the glass edge with double-sided adhesive tape.



The self-adhesive rubber profile in black or translucent reduces draughts to a minimum and protects the glass edge.



Integrated locks

| | | | code |
|---|--|----------------------------------|-------|
| | | profile cylinder 17 mm (11 ") | 16760 |
| | Bar bolt lock, with retention pin | round cylinder 22 mm (7 ") | 16761 |
| 9 | | square/hexagon socket | 16762 |
| | | profile cylinder 17 mm (11 ") | 18484 |
| | Bar bolt lock, with guide pin and fixing parts | round cylinder 22 mm (7/8") | 18485 |
| | | square/hexagon socket | 18486 |
| | Security rose 16 mm (⁵ / ₈ " for double cylinder 17/6 chrome nickel steel | | 18502 |
| | | profile cylinder 17 mm (11 ") | 18493 |
| | Spacer for security rose | round cylinder 22 mm (7/8") | 18494 |
| 0 | Floor-mounted sleeve wi chromium-plated brass s | 13787 | |
| | Rosette for floor-mounte | 17326 | |
| | Strike plate, chromium-p | 13130 | |

Services

Service items such as cutouts for safety locks and cylinders as well as surface treatments are charged separately. Price on request.

Cutouts

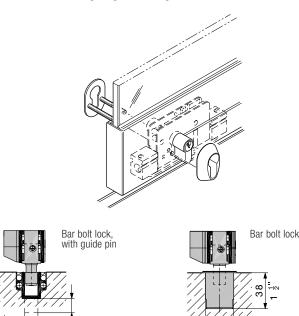
| | code |
|---|-------|
| Cutout, bar bolt lock for 17 mm ($\frac{11}{16}$ "), for double cylinder | 18489 |
| Cutout left, bar bolt lock for 17 mm (11 m/16), for single cylinder | 21331 |
| Cutout right, bar bolt lock for 17 mm (11), for single cylinder | 21332 |
| Cutout, bar bolt lock for 22 mm ($\frac{7}{8}$ "), for double cylinder | 18490 |
| Cutout left, bar bolt lock for 22 mm $(\frac{7}{8})$, for single cylinder | 21333 |
| Cutout right, bar bolt lock for 22 mm $(\frac{7}{8})$, for single cylinder | 21334 |
| Cutout, bar bolt lock, left, square/hexagon socket | 18492 |
| Cutout, bar bolt lock, right, square/hexagon socket | 18491 |

Surface treatments

| | code |
|--|-------|
| Basic treatment fee to surface treatment, lump sum per colour | 16741 |
| Powder-coated to RAL code | 14163 |
| Plain anodized, polished, brushed | 14626 |
| Stainless-steel effect, hard anodized, brushed, polished, mat finish | 14378 |
| Chrome effect, polished finish | 14630 |
| Nickel-plated, mirror finish | 14631 |

Safety first

An integrated bar bolt lock compatible with the 17 mm $(\frac{11}{16}")$ profile cylinder, 22 mm $(\frac{7}{8}")$ round cylinder and square/hexagon socket is available for securing all-glass sliding doors.



Locking doors at handle height

The HAWA-Toplock for all-glass sliding doors is ideal for locking doors at handle height.

 $\frac{\emptyset 30}{1\frac{3}{16}}$

Details: → HAWA-Toplock.

Accessories

Accessories: → page 120-129

Order specifications

- Type and quantity of partial sets
- Type and length of running tracks
- Type and length of glass suspension/retainer profile
- Quantity of glass holder insert
- Type and quantity of bottom guides

Optional order specifications

- Type and quantity of cover caps for suspension and retainer profile
- Type and quantity of bar bolt lock
- Accessories for bar bolt lock
- Type and quantity of wall connection profile
- Type and quantity of protective transparent edge profile

Optional order specification fixed glass

- Type and quantity of running tracks with fixed glass
- Type and quantity of bottom/wall profile
- · Type and quantity of rubber profile to fixed glass
- Type and quantity of vertical sealing profiles
- Type and quantity of fitting sets

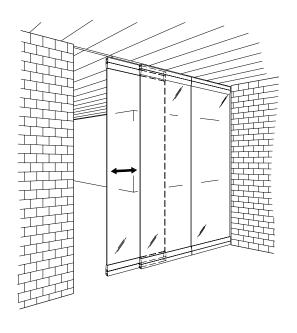
Planning/installation

For planning and installation purposes, please use the installation drawing code 18183. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

For convenient operation of sliding doors with soft closing mechanisms, use bow-type handles instead of shell handles.

Stationary glass HAWA-Fixed Glass

The suspension bracket set is a further method of installing fixed glass components. When used together with the glass suspension and retainer profile it enables fixed glass components and sliding glass doors to form a harmonious unit, thus creating the ideal prerequisites for a comprehensive uniform solution.



Stationary glass HAWA-Fixed Glass

| | code |
|--|-------|
| Top-fixing plate for fixed glass, with hanger bolt M12, HAWA-Junior 80/G | 14686 |
| Top-fixing plate for fixed glass, with hanger bolt M12, HAWA-Junior 120/G | 15472 |
| Top-fixing plate for fixed glass, with hanger bolt M12, HAWA-Junior 160/G | 14687 |

Bottom profiles for fixed glass

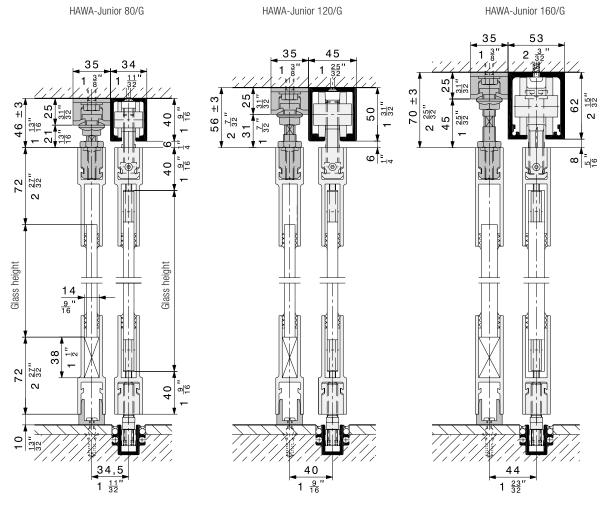
| | mm | code |
|---------------------------|---|-------|
| Bottom profile, alu, | 6000 (19'8 ⁷ / ₃₂ ") | 14691 |
| plain anodized, undrilled | cut to size | 14692 |

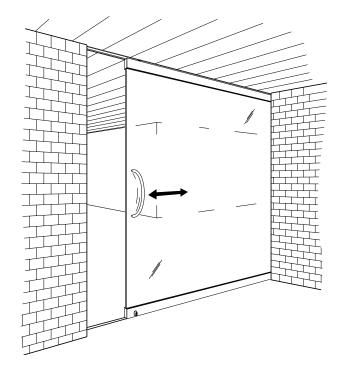
Order specifications for HAWA-Fixed Glass

- · Quantity and type of top-fixing plate
- Length of bottom profile

Planning/installation

For planning and installation purposes, please use the installation drawing code 18183. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)





Generous elegance – running strong

Hardware system for all-glass sliding doors weighing up to 250 kg (550 lbs.)

Description

HAWA-Junior 250/G is a tough hardware system with a horizontal suspension profile for low installation heights. Tried and tested HAWA-Junior technology guarantees smooth running properties, durability and ease of operation for large-surface, all-glass sliding doors up to 250 kg (550 lbs.). The neutral, modest and clear-cut glass suspension and retainer profile has two compelling properties. Aesthetic appeal: the classic design blends into any environment -Safety: the interlocking glass retainer guarantees permanent user safety, even under heavy use. The profile's integrated suspension is a further advantage. The minimal distance between running track and retainer profile of 10 mm [\pm 5 mm ($\frac{7}{32}$ ")] enables a low installation height and renders a cover unnecessary. The same glass suspension and retainer profile at the bottom in combination with a rattle-proof, two-point guide, a continuous floor track and/or a discretely integrated bar bolt lock for safe and comfortable operability.

Applications

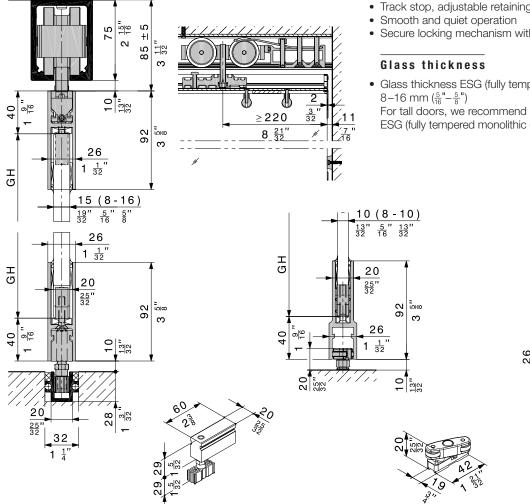
Wherever large door weights require a high degree of quality, smooth running and ease of operation - for instance in housing construction, the public building sector or in buildings for industry and administration.

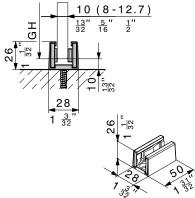
Features of the HAWA-Junior 250/G

- Maximum door weight: 250 kg (550 lbs.)
- Two-wheeled trolley, with plastic wheels
- Low headroom applications
- Vertical adjustment ± 5 mm ($\frac{7}{32}$ ")
- Track stop, adjustable retaining force
- Secure locking mechanism with integrated bar bolt lock

• Glass thickness ESG (fully tempered monolithic glass):

For tall doors, we recommend glass thicknesses ESG (fully tempered monolithic glass): $12-16 \text{ mm} \left(\frac{15}{32} - \frac{5}{8}\right)$.





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

62

57

 $2^{\frac{1}{4}}$

Partial set, without running track

| | code |
|--|-------|
| HAWA-Junior 250/G, partial set for 1 single door | 21738 |

Partial set comprising

| | | pieces | code |
|---|--|--------|-------|
| | Two-wheeled trolley, M12, with plastic wheels | | 20731 |
| | Suspension plate, with hanger bolt M12 and fixing screw | 2 | 21739 |
| 2 | Adjustment and fixing key for suspension assembly | 1 | 10793 |
| | Track stop, adjustable retaining force | 2 | 20995 |
| | Screw-on rubber door stop, 29 mm (1 ⁵ / ₈₂ ") | 1 | 13114 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | 2 | 20907 |

Glass suspension/retainer profile

| | | mm/inch | code |
|---|---|-----------------|-------|
| | Glass suspension/retainer profile, alu plain anodized, | 6500 (21'3 32") | 21783 |
| | brushed undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 21784 |
| | Glass suspension/retainer profile, alu unanodized, | 6500 (21'3 32") | 13158 |
| | undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 13159 |
| | Cover cap for glass suspension/retainer profile 21783/21784/13158/13159, plastic anthracite-grey RAL 7016 | | 21085 |
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 10 mm (\frac{132}{32}) Glass suspension/retainer profile, alu unanodized, undrilled, glass up to 10 mm (\frac{132}{32}) | 6500 (21'3 32") | 21781 |
| | | cut to size | 21782 |
| | | 6500 (21'3 32") | 10348 |
| | | cut to size | 10349 |
| Cover cap for glass suspension/retainer profile 21781/21782/10348/10349, plastic anthracite-grey RAL 7016 | | 21512 | |
| | Multi purpose suspension | 6500 (21'3 💯") | 10345 |
| | and retainer profile, alu plain anodized, undrilled | cut to size | 12915 |

Running tracks

| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|---|--|-------|
| | Running track, alu plain anodized, predrilled | 4000 (13'1½") | 20988 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 20612 |
| | | cut to size | 20990 |
| | Connecting pins for profiles, set of 2 pieces | | 21347 |

Bottom guide channels

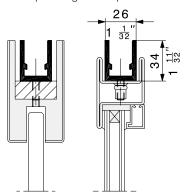
| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|---|--|-------|
| | alu plain anodized, predrilled, 31 x 28 mm | 6000 (19'8 ⁷ / ₃₂ ") | 13688 |
| | | cut to size | 13690 |
| | | m (¹ / ₄ " x 1 ¹⁹ / ₃₂ ") | 13759 |

Accessories

| | | | code |
|---------------------------------------|--|---------------------------|-------|
| | Guide with plastic slider, rattle proof, 14 mm (10 and suspension block | | 13781 |
| 603 | Rattle-proof floor mounted g (surface mounted lock not p | | 24905 |
| | Rattle-proof floor guide inc. self-adhesive sliders | dull chromium finish | 16029 |
| | 1110111000 0 12,7 11111 | stainless steel effect | 21267 |
| | Glass holder insert, plastic, with screw M6 x 30 mm (‡" x 1 ½") | | 10792 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | | 20907 |
| 9 | HAWA-Assembly wedge for sliding doors running in the ceiling, set for 1 sliding door (details: → page 126) | | 15770 |
| Bottom door stop dull chromium finish | | | 20773 |
| with centering asso | with centering assembly | stainless steel effect | 21473 |

Hawa-advantage

Hawa offers a suspension profile (12915) which permits the use of either a standard or a customised top-fixed glass suspension/retainer profile.



Protective transparent edge trims

| | | Glass | mm/inch | code |
|---------------------------------------|---|---------------|---|-------|
| | | 10 mm | 3000 (9'10 1/8") | 13822 |
| A | | (13 m) | 6000 (19'8 ⁷ / ₃₂ ") | 13600 |
| | Protective | 12 mm | 3000 (9'10 1 ") | 13908 |
| | transparent edge profile, plastic | (15") | 6000 (19'8 ⁷ / ₃₂ ") | 13907 |
| | | 12,7 mm | 3000 (9'10 ¹ / ₈ ") | 13912 |
| ' " | | (1/2") | 6000 (19'8 ⁷ / ₃₂ ") | 13911 |
| | Double-sided adhesive tape for protective edge trim | | roll of 50 m (164'½") | 13988 |
| | Rubber profile self | , | 5 m (16'4 ²⁷ ") | 19442 |
| | for 8/10 mm ($\frac{5}{16}$ "/ $\frac{15}{32}$) thickness, black, | ") glass | 10 m (32'932") | 19443 |
| | glass distance 4 mm ($\frac{5}{32}$ ") | | 50 m (164'½") | 19444 |
| | Rubber profile self | | 5 m (16'4 ²⁷ ") | 19445 |
| | for 8/10 mm (5 1/32 thickness, translu | , 0 | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| glass distance 4 mm $(\frac{5}{32}")$ | | 50 m (164'½") | 19447 | |

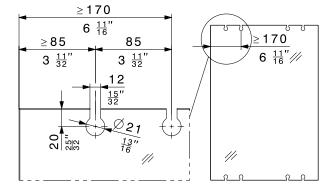
Wall connection profile

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

Glass cutouts

The glass ESG (fully tempered monolithic glass) must be provided with cutouts for installation of the glass holder inserts and the safety locks.

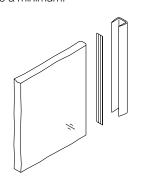
- Glass thickness sliding door ESG (fully tempered monolithic glass): $8-16 \text{ mm} \left(\frac{5}{16} \frac{5}{8}\right)$, thickness tolerance \pm 0,3 mm
- All glass edges are seamed; maximum 1 mm $(\frac{1}{16}")$ in the glass cutout



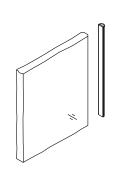
Glass cutout for glass holder

Glass edge protection

A transparent glass edge protection profile and the self-adhesive rubber profile are recommended to protect vertical glass edges. The latter not only protects the glass edge, but also reduces draughts to a minimum.



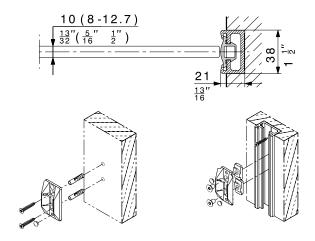
The glass edge protection profile is made of transparent plastic and is fitted to the glass edge with double-sided adhesive tape.

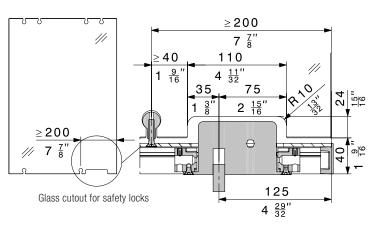


The self-adhesive rubber profile in black or translucent reduces draughts to a minimum and protects the glass edge.

Wall connection profile

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





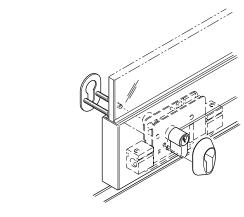
Subject to modification. Metric specifications are exact. Inches are approximate.

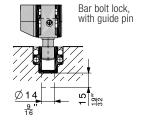
Integrated locks

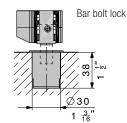
| | | | code |
|--|--|------------------------------------|-------|
| | | profile cylinder 17 mm (11/16") | 16760 |
| | Bar bolt lock, with retention pin | round cylinder 22 mm (7/8") | 16761 |
| | | square/hexagon socket | 16762 |
| Bar bolt lock, with guide pin and fixing parts | | profile cylinder 17 mm (11/16") | 18484 |
| | round cylinder 22 mm (3 ") | 18485 | |
| | | square/hexagon socket | 18486 |
| | Security rose 16 mm ($\frac{6}{5}$ "), for double cylinder 17/61 mm ($\frac{11}{15}$ "/2 $\frac{13}{22}$ "), chrome nickel steel | | 18502 |
| | Spacer for security rose | profile cylinder 17 mm (11/16") | 18493 |
| | Spacer for Security 10Se | round cylinder 22 mm (7/8") | 18494 |
| | Floor-mounted sleeve with oblong hole and chromium-plated brass spring | | 13787 |
| | Rosette for floor-mounted sleeve 13787 | | 17326 |
| | Strike plate, chromium-plated steel | | 13130 |

Safety first

An integrated bar bolt lock compatible with the 17 mm $(\frac{11}{16}")$ profile cylinder, 22 mm $(\frac{7}{8}")$ round cylinder and square/hexagon socket is available for securing all-glass sliding doors.







Cutouts

| | code |
|--|-------|
| Cutout, bar bolt lock for 17 mm (11 n), for double cylinder | 18489 |
| Cutout left, bar bolt lock for 17 mm $(\frac{11}{16})$, for single cylinder | 21331 |
| Cutout right, bar bolt lock for 17 mm (11/18), for single cylinder | 21332 |
| Cutout, bar bolt lock for 22 mm ($\frac{7}{8}$ "), for double cylinder | 18490 |
| Cutout left, bar bolt lock for 22 mm ($\frac{7}{8}$ "), for single cylinder | 21333 |
| Cutout right, bar bolt lock for 22 mm $(\frac{7}{8})$, for single cylinder | 21334 |
| Cutout, bar bolt lock, left, square/hexagon socket | 18492 |
| Cutout, bar bolt lock, right, square/hexagon socket | 18491 |

Services

Surface treatments are charged separately. Price on request. \rightarrow HAWA-Junior 80-120-160/G.

Accessories

Accessories: → pages 120-129

Order specifications

- · Quantity of sets
- Type and length of running track
- Type and length of glass suspension/retainer profile
- Quantity of glass holder insert
- · Length of bottom guide channel
- Type and quantity of bottom guides

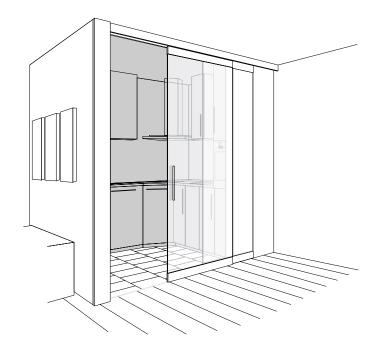
Optional order specifications

- Type and quantity of cover caps for suspension and retainer profile
- Type and quantity of bar bolt lock
- Accessories for bar bolt lock
- Type and quantity of wall connection profile
- Type and quantity of protective transparent edge profile

Planning/installation

For planning and installation purposes, please use the installation drawing code 21737.

 $(\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)$



34 1 11 \emptyset 5.3 $\frac{7}{32}$. 일 +1 29 <u>27</u> 32 72 Q ΉU ВH 15 (8-16) 5 16 26 92 32 40 <u>9</u>|9

A lot of motion with a single slide – crystal-clear.

Hardware system for simultaneous sliding of two all-glass sliding doors weighing up to 80 kg (176 lbs.)

Description

HAWA-Telescopic 80/G: the space-saving hardware system with telescope technology for simultaneously sliding two glass doors. Its combination with the proven quality of HAWA-Junior guarantees enhanced running smoothness, a long lifetime and ease of operation. The sliding glass doors move continuously and simultaneously into the open or closed position thanks to a toothed belt – all this without the noise of colliding door stoppers. A glass suspension and retainer profile in a neutral, unadorned and linear design is a convincing solution in more ways than one: its classic design blends aesthetically into any environment, and its interlocking glass retainer system guarantees constant safety even under heavy use. At the bottom of the door the same glass suspension and retainer profile combined with plastic floor guides ensure the greatest ease of use with no visible guiding components in the passageway.

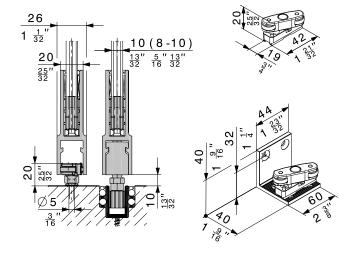
Applications

Wherever only half the space of the closing width is available for the sliding doors when they are open, e.g. in hotels or housing constructions – especially in kitchens, bathrooms and offices.

Features of the HAWA-Telescopic 80/G

- Maximum door weight: 80 kg (176 lbs.)
- Door width: $500-1000 \text{ mm} \left(1'7\frac{11}{16}"-3'3\frac{3}{8}"\right)$
- Maximum door height: 2600 mm (8'6³/₈")
- Glass thickness ESG (fully tempered monolithic glass): 8–16 mm $(\frac{5}{16} \frac{5}{8})$
- Fibreglass-reinforced toothed belts guarantee high tensile strength and a low level of expansion
- Two-wheeled trolley, with plastic wheels
- Track stop, adjustable retaining force
- Smooth and quiet operation
- Secure locking mechanism with integrated bar bolt lock
- Offers the top quality of HAWA-Junior 80/G products
- · Can be combined with HAWA-Toplock and wall joint profile

Floor-guide type



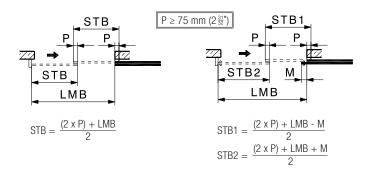
Set for double sliding doors

| | code |
|--|-------|
| HAWA-Telescopic 80/G, set for double sliding doors | 25659 |

Set comprising

| | | pieces | code |
|------|---|--------|-------|
| | Two-wheeled trolley, M10, with plastic wheels | 4 | 10407 |
| | Suspension plate with hanger bolt M10 and fixing screw | | 14543 |
| | Track stop, adjustable retaining force | 2 | 24497 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | 8 | 20907 |
| | Glass holder insert, plastic, with screw M6 x 30 mm (\frac{1}{4}" x 1\frac{3}{16}") | 8 | 10792 |
| | Guide pulley wheel, with fixing plate, long | 1 | 20139 |
| | Guide pulley wheel, with fixing plate, short | 1 | 20140 |
| | Driver, wide Toothed belt black, fibre glass reinforced 2,7 m (8'10 \(\frac{5}{6} \) ") | | 20141 |
| | | | 20208 |
| | Toothed belt fixing device for ceiling/wall mounting, complete | 1 | 20732 |
| | Driver counter-plate, wide | 1 | 20246 |
| | Suspension plate | 3 | 21262 |
| | Screw-on rubber door stop | 1 | 10629 |
| 0 | Rattle-proof floor mounted guide, with wheels, complete | 1 | 24906 |
| 60.9 | Rattle-proof floor mounted guide, with wheels (surface mounted lock not possible) | 1 | 24905 |

Calculation for sliding door width



Running tracks

| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|--|--|-------|
| | | 1400 (4'718") | 10189 |
| | | 1600 (5'3") | 10190 |
| | | 1800 (5'10 ⁷ / ₈ ") | 10191 |
| , ° | Running track, alu plain anodized, predrilled | 2000 (6'63") | 10192 |
| | | 2200 (7'2 ⁵ / ₈ ") | 10193 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 10194 |
| | | 3000 (9'10 1 ") | 18532 |
| | | 4000 (13'1½") | 18533 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10186 |
| | | cut to size | 10188 |

Cover caps for running track

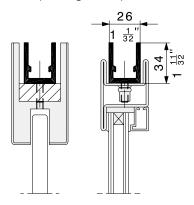
| | | code |
|---|----------------|-------|
| Cover cap for running track, metal, suitable to both sides, dull, chromium finish, 1 piece | HAWA-Junior 80 | 24956 |

Glass suspension/retainer profile

| | | mm/inch | code |
|--|---|---|-------|
| | Glass suspension/retainer profile, alu plain anodized, | 6500 (21'3 ²⁹ / ₃₂ ") | 21783 |
| | brushed undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 21784 |
| | Glass suspension/retainer profile, alu unanodized, | 6500 (21'3 ²⁹ / ₃₂ ") | 13158 |
| | undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 13159 |
| | Cover cap for glass suspensi 21783/21784/13158/131 plastic anthracite-grey RAL | 59, | 21085 |
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 10 mm (½") Glass suspension/retainer profile, alu unanodized, | 6500 (21'3 32") | 21781 |
| | | cut to size | 21782 |
| | | 6500 (21'3 ²⁹ / ₃₂ ") | 10348 |
| | undrilled, glass up to 10 mm (13") | cut to size | 10349 |
| | Cover cap for glass suspension/retainer profile 21781/21782/10348/10349, plastic anthracite-grey RAL 7016 | | 21512 |
| | Multi purpose suspension | 6500 (21'3 🖑 ") | 10345 |
| | and retainer profile, alu plain anodized, undrilled | cut to size | 12915 |

Hawa-advantage

Hawa offers a suspension profile (12915) which permits the use of either a standard or a customised top-fixed glass suspension/retainer profile.



Bottom guide channels

| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|---|--|-------|
| | Bottom guide channel, alu plain anodized, predrilled, 31 x 28 mm (1 (1 x x 1 ± ") | 6000 mm (19'8 ⁷ / ₃₂ ") | 13688 |
| | | cut to size | 13690 |
| | Connecting bolt, Ø 6 x 40 mm (1" x 119") | | 13759 |

Accessories for fixed glass

| | code |
|--|-------|
| Top-fixing plate set for fixed glass, with hanger bolt M12 | 14687 |
| Bottom profile, alu plain anodized, undrilled | 14692 |

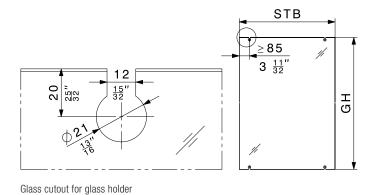
Wall connection profile

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

Glass cutouts

The glass ESG (fully tempered monolithic glass) must be provided with cutouts for installation of the glass holder inserts and the safety locks.

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

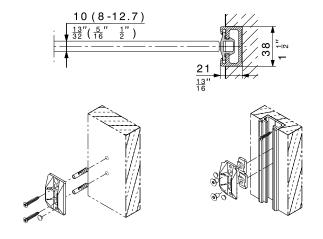


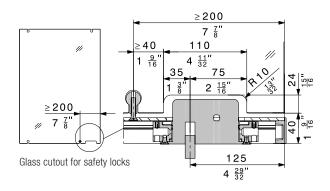
Accessories

| | | | code |
|---|---|---------------------------|-------|
| | Guide with plastic slider, rattle proof, 14 mm ($\frac{9}{16}$ ") and suspension block | | 13781 |
| | Rattle-proof floor mounted g (surface mounted lock not po | | 24905 |
| • | Glass holder insert, plastic, with screw M6 x 30 mm (½" x 1½") | | 10792 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | | 20907 |
| | Bottom door stop | dull chromium finish | 20773 |
| | with centering assembly | stainless steel effect | 21473 |

Wall connection profile

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





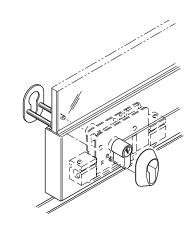
Integrated locks

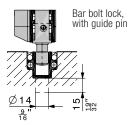
| | | | code |
|---|--|---|-------|
| | | profile cylinder 17 mm ($\frac{11}{16}$ ") | 16760 |
| | Bar bolt lock, with retention pin | round cylinder 22 mm (7 ") | 16761 |
| 9 | | square/hexagon socket | 16762 |
| | | profile cylinder 17 mm (11 ") | 18484 |
| | Bar bolt lock, with guide pin and fixing parts | round cylinder 22 mm (7 ") | 18485 |
| | and many parts | square/hexagon socket | 18486 |
| | Security rose 16 mm ($\frac{5}{6}$ "), for double cylinder 17/61 mm ($\frac{11}{16}$ "/2 $\frac{18}{32}$ "), chrome nickel steel | | 18502 |
| | Spacer for security rose | profile cylinder 17 mm (11/16") | 18493 |
| | Spacer for security rose | round cylinder 22 mm (7 ") | 18494 |
| 0 | Floor-mounted sleeve with oblong hole and chromium-plated brass spring | | 13787 |
| | Rosette for floor-mounted sleeve 13787 | | 17326 |
| | Strike plate, chromium-plated steel | | 13130 |

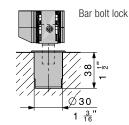
Safety first

An integrated bar bolt lock compatible with the 17 mm $(\frac{11}{16}")$ profile cylinder, 22 mm $(\frac{7}{16}")$ round cylinder and square/hexagon socket is available for securing all-glass sliding doors.

The HAWA-Toplock all-glass sliding door lock is available for convenient locking at handle height. Details: → HAWA-Toplock.







Cutouts

| | code |
|---|-------|
| Cutout, bar bolt lock for 17 mm (11 n), for double cylinder | 18489 |
| Cutout left, bar bolt lock for 17 mm $(\frac{11}{16})$, for single cylinder | 21331 |
| Cutout right, bar bolt lock for 17 mm (11/18), for single cylinder | 21332 |
| Cutout, bar bolt lock for 22 mm ($\frac{7}{8}$ "), for double cylinder | 18490 |
| Cutout left, bar bolt lock for 22 mm $(\frac{7}{8})$, for single cylinder | 21333 |
| Cutout right, bar bolt lock for 22 mm ($\frac{7}{8}$ "), for single cylinder | 21334 |
| Cutout, bar bolt lock, left, square/hexagon socket | 18492 |
| Cutout, bar bolt lock, right, square/hexagon socket | 18491 |

Services

Surface treatments are charged separately. Price on request. \rightarrow HAWA-Junior 80-120-160/G.

Accessories

Accessories: → pages 120-129

Order specifications

- · Quantity of sets
- Length of running track
- Type and length of glass suspension/retainer profile
- Type and quantity of bottom guides

Optional order specifications

- · Length of bottom guide channel
- Type and quantity of bar bolt lock
- Accessories for bar bolt lock
- Type and quantity of wall connection profile
- Quantity of cover caps to running track

Order specifications fixed glass

- Type and quantity of accessories to fixed glass
- Type and length of glass suspension/retainer profile

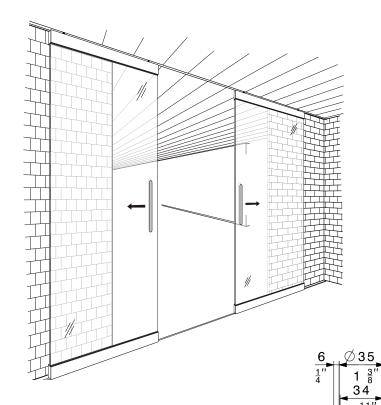
Optional order specification fixed glass

• Type and quantity of cover caps to glass suspension/retainer profile

Planning/installation

For planning and installation purposes, please use the installation drawing code 21963.

(→ www.hawa.ch → HAWA-Productfinder)



Hardware system for two all-glass sliding doors weighing up to 80 kg (176 lbs.), opening simultaneously to the left and right.

Description

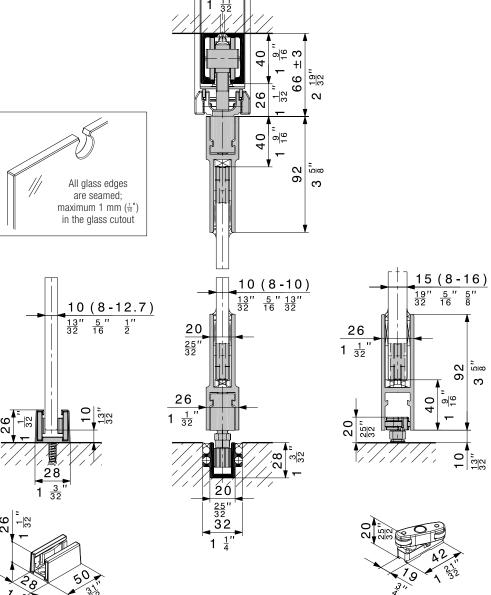
HAWA-Symmetric 80/G offers additional operating comfort, since with this hardware system it is possible to simultaneously open or close two all-glass sliding doors weighing up to 80 kg (176 lbs.).

Applications

This hardware system is suitable for use wherever there is a need for smooth and quiet operation, and simultaneous opening and closing of two all-glass sliding doors represents a solution to space problems, e.g. in offices, living rooms, kitchens, bathrooms, etc.

Features of the HAWA-Symmetric 80/G

- Offers the top quality of HAWA-Junior 80/G products
- Symmetrical opening and closing of two all-glass sliding doors



Partial set for double sliding doors

| | code |
|---------------------|-------|
| HAWA-Symmetric 80/G | 14557 |

Partial set comprising

| | | pieces | code |
|-----------------------|--|--------|-------|
| | Two-wheeled trolley, M10, with plastic wheels | 4 | 10407 |
| | Suspension plate with hanger bolt M10 and fixing screw | 4 | 14543 |
| | Track stop, adjustable retaining force | 1 | 24497 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | 4 | 20907 |
| • | Screw-on rubber door stop | 2 | 10629 |
| S. P. | Suspsension assembly locking wrench | 1 | 10778 |
| | Pulley wheel | 2 | 15788 |
| | Clamp for toothed belt | 2 | 15790 |
| With dear widths area | Toothed belt, roll of 10 m (32'9 $\frac{45"}{64}$), for 2 sliding doors of max. width 1200 mm (3'11 $\frac{1}{4}$ ") each | 1 | 15712 |

With door widths greater than 1200 mm (3'11 $\frac{1}{4}$ "), an additional toothed belt needs to be ordered. Toothed belts can be bound together in the clamp unit.

Running tracks

| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|--|--|-------|
| | | 2000 (6'6 3") | 10192 |
| /。 | | 2200 (7'2 ⁵ / ₈ ") | 10193 |
| * Ru | Running track, alu plain anodized, predrilled | 2500 (8'2 ⁷ / ₁₆ ") | 10194 |
| | | 3000 (9'10 ¹ / ₈ ") | 18532 |
| | | 4000 (13'1½") | 18533 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10186 |
| | | cut to size | 10188 |

Cover caps to running track

| | code |
|--|-------|
| Cover cap for running track, metal, suitable to both sides, dull, chromium finish, 1 piece | 24956 |

Bottom guide channels

| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|--|--|-------|
| | Bottom guide channel, alu plain anodized, predrilled, $31 \times 28 \text{ mm } (1\frac{7}{32}\text{m} \times 1\frac{1}{8}\text{m})$ | 6000 (19'8 ⁷ / ₃₂ ") | 13688 |
| | | cut to size | 13690 |
| | Connecting bolt, stainless steel \emptyset 6 x 40 mm ($\frac{1}{4}$ " x 1 $\frac{19}{32}$ ") | | 13759 |

Glass suspension/retainer profile

| | | mm/inch | code |
|--|--|---|-------|
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 16 mm (\$\frac{5}{8}") | 6500 (21'3 ²⁹ / ₃₂ ") | 21783 |
| | | cut to size | 21784 |
| | Glass suspension/retainer profile, alu unanodized, undrilled, glass up to 16 mm (\$\frac{5}{8}") | 6500 (21'3 ²⁹ / ₃₂ ") | 13158 |
| | | cut to size | 13159 |
| | Cover cap for glass suspension/retainer profile 21783/21784/13158/13159, plastic anthracite-grey RAL 7016 | | 21085 |
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 10 mm (32") | 6500 (21'3 ²⁹ ") | 21781 |
| | | cut to size | 21782 |
| | Glass suspension/retainer profile, alu unanodized, undrilled, glass up to 10 mm (32") | 6500 (21'3 ²⁹ / ₃₂ ") | 10348 |
| | | cut to size | 10349 |
| | Cover cap for glass suspension/retainer profile 21781/21782/10348/10349, plastic anthracite-grey RAL 7016 | | 21512 |
| | Multi purpose suspension and retainer profile, alu plain anodized, undrilled | 6500 (21"3 ²⁹ ") | 10345 |
| | | cut to size | 12915 |

Accessories/Bottom door stop

| | | | code |
|------|--|---------------------------|-------|
| | Guide with plastic slider, rattle proof, 14 mm ($\frac{9}{16}$) and suspension block | | 13781 |
| GO 3 | Rattle-proof floor mounted guide, with wheels (surface mounted lock not possible) | | 24905 |
| | Rattle-proof floor guide inc. self-adhesive sliders for satinised glass, glass thickness $8-12,7$ mm $\left(\frac{5}{15}-\frac{1}{2}\right)$ | dull chromium finish | 16029 |
| | | stainless steel effect | 21267 |
| | Glass holder insert, plastic, with screw M6 x 30 mm (‡" x 1 \(\frac{3}{16}\)") | | 10792 |
| | Bottom door stop with centering assembly | dull chromium finish | 20773 |
| | | stainless steel effect | 21473 |

Order specifications

- · Quantity of partial sets
- Length of running track
- Width and height of glass
- Thickness of glass
- Quantity and type of additional covering caps
- · Quantity and type of bottom guides
- · Length of bottom guide channel
- Type of protective edge profile

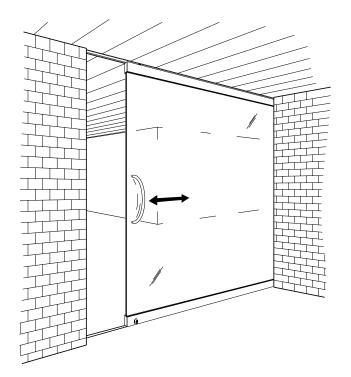
Fixed glass/Integrated locks/Accessories

- Fixed glass: → page 61
- Integrated locks: → HAWA-Junior 80-120-160/G
- Accessories: → pages 120-129
- Bottom door stop: → page 127

Planning/installation

For planning and installation purposes, please use the following installation drawing code 14556. (→ www.hawa.ch → HAWA-Productfinder)

H A W A - Super 250/G



Hardware system for elegant heavy-weight all-glass sliding doors weighing up to 250 kg (550 lbs.).

Description

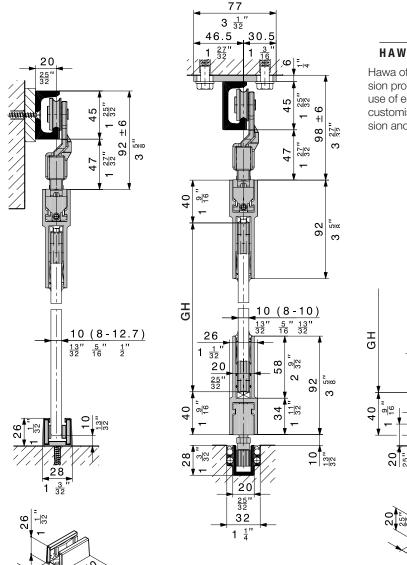
The HAWA-Super 250/G is a hardware system for heavy-weight all-glass sliding doors, and has been used with a great deal of success for many years. Its top-fixed suspension and glass retainer can also be used for fixed glass panels and doors installed between fixed components, and thus offer ideal pre requisites for a uniform complete solution.

Applications

This hardware system is suitable for use wherever heavyweight doors call for a high degree of quality and precision, e.g. in public buildings, industrial premises and the administrative sector.

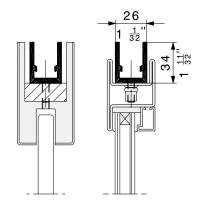
Features of the HAWA-Super 250/G

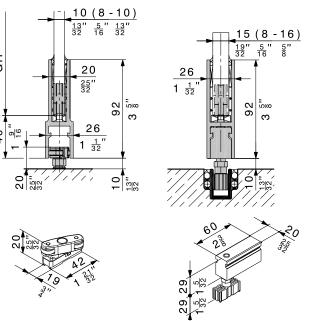
- Two-wheeled trolley with steel wheels
- Stainless steel running tracks WNR 1.4301/AISI 304
- Minimum axis radius, 1000 mm (3'3 \frac{3}{8}")
- Smooth and quiet operation
- Vertical adjustment



HAWA-advantage

Hawa offers a special suspension profile which permits the use of either a standard or a customised top-fixed suspension and glass retainer.





H A W A - Super 250/G

Accessories

| | | code |
|---|---------------------------|-------|
| Two-wheeled trolley, M12, v | 13495 | |
| Suspension plate, with hang | jer bolt M12 | 13415 |
| Track stop, galvanized steel to be drilled into the track | , | 10595 |
| Screw-on rubber door stop | | 13114 |
| Guide with plastic slider, rat 14 mm ($\frac{9}{16}$) and suspension | 13781 | |
| Rattle-proof floor mounted g (surface mounted lock not po | 24905 | |
| Rattle-proof floor guide inc. self-adhesive sliders for satinised glass, glass | dull chromium finish | 16029 |
| thickness 8–12,7 mm $\left(\frac{5}{16} - \frac{1}{2} \right)$ | stainless steel effect | 21267 |
| Glass holder insert, plastic, with screw M6 x 30 mm ($\frac{1}{4}$ " x 1 $\frac{3}{16}$ ") | | |
| Top fixing plate for stationariy glass, with hanger bolt M12 | | |
| Bottom door stop | dull chromium finish | 20773 |
| with centering assembly | stainless steel effect | 21473 |

Glass suspension/retainer profile

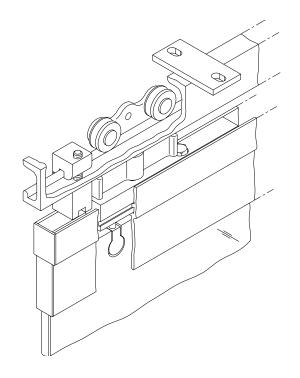
| | | mm/inch | code |
|--|---|---|-------|
| | Glass suspension/retainer profile, alu plain anodized, | 6500 (21'3 ²⁹ / ₃₂ ") | 21783 |
| | brushed undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 21784 |
| | Glass suspension/retainer profile, alu unanodized, | 6500 (21'3 ²⁹ / ₃₂ ") | 13158 |
| | undrilled, glass up to 16 mm (5 ") | cut to size | 13159 |
| | Cover cap for glass suspensi 21783/21784/13158/131 plastic anthracite-grey RAL | 59, | 21085 |
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 10 mm (32") | 6500 (21'3 💯") | 21781 |
| | | cut to size | 21782 |
| | Glass suspension/retainer profile, alu unanodized, undrilled, glass up to 10 mm (32") | 6500 (21'3 ²⁹ / ₃₂ ") | 10348 |
| | | cut to size | 10349 |
| | Cover cap for glass suspensi 21781/21782/10348/103 plastic anthracite-grey RAL | 349, | 21512 |
| | Multi purpose suspension | 6500 (21'3 ²⁹ / ₃₂ ") | 10345 |
| / / | and retainer profile, alu plain anodized, undrilled | cut to size | 12915 |
| Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | | | 20907 |

Running tracks

| Caution: Hole positio | ns vary | | mm/inch | code |
|-----------------------|---|------------------|---|-------|
| S | Single running track, stainless steel WNR | side- | 6000 (19'8 ⁷ / ₃₂ ") | 18033 |
| | 1.4301/AISI 304 | drilled | cut to size | 18034 |
| | Single running track, stainless steel WNR | top- mounting | 6000 (19'8 ⁷ / ₃₂ ") | 18035 |
| | | flanges | cut to size | 18036 |

Bottom guide channels

| Caution: Hole positio | ns vary | mm/inch | code |
|---|-----------------------|---|-------|
| | Bottom guide channel, | 6000 (19'8 ⁷ / ₃₂ ") | 13688 |
| alu plain anodized, predrilled, 31 x 28 mm (1½ x 1½) | | cut to size | 13690 |
| Connecting bolt, Ø 6 x 40 mm (½" x 1½") | | | |



H A W A -- Super 250/G

Integrated locks

| | | | code |
|--|---|------------------------------------|-------|
| | | | 16760 |
| | Bar bolt lock, with retention pin | round cylinder 22 mm (7/8") | 16761 |
| | | square/hexagon socket | 16762 |
| | | | 18484 |
| Bar bolt lock, with guide pin and fixing parts | | round cylinder 22 mm (3/8") | 18485 |
| | | | 18486 |
| | Security rose 16 mm (5 m) for double cylinder 17/6 lnox | 18502 | |
| (A) | Chaper for acquirity race | profile cylinder 17 mm (11/16") | 18493 |
| | Spacer for security rose | round cylinder 22 mm (7/8") | 18494 |
| | Floor-mounted sleeve wi chromium-plated brass s | 13787 | |
| | Rosette for floor-mounte | 17326 | |
| | Strike plate, chromium-plated steel | | |

Glass edge protection

A transparent glass edge protection profile and the self-adhesive rubber profile are recommended to protect vertical glass edges. The latter not only protects the glass edge, but also reduces draughts to a minimum.

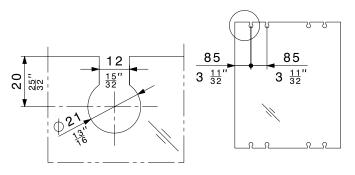
Protective transparent edge trims

| | | Glass | mm/inch | code |
|-----|--|--|---|-------|
| _ | | 10 mm | 3000 (9'10 ¹ / ₈ ") | 13822 |
| | | (13/32) | 6000 (19'8 ⁷ / ₃₂ ") | 13600 |
| | Protective transparent edge | 12 mm | 3000 (9'10 1 ") | 13908 |
| | profile, plastic | (15/32) | 6000 (19'8 ⁷ / ₃₂ ") | 13907 |
| | | 12,7 mm | 3000 (9'10 1 ") | 13912 |
| 111 | $\left(\frac{1}{2}^{"}\right)$ | 6000 (19'8 ⁷ / ₃₂ ") | 13911 | |
| | Double-sided adhesive tape for protective edge trim | | roll 50 m (164'½") | 13988 |
| | Rubber profile self | | 5 m (16'4 ²⁷ ") | 19442 |
| | for 8/10 mm $(\frac{5}{16}"/\frac{13"}{32})$ glass thickness, black, glass distance 4 mm $(\frac{5}{32}")$ | | 10 m (32'9 ²³ / ₃₂ ") | 19443 |
| | | | 50 m (164'½") | 19444 |
| | Rubber profile self | | 5 m (16'4 ²⁷ ") | 19445 |
| | for 8/10 mm ($\frac{5}{16}$ "/ $\frac{15}{32}$) thickness, translu | | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| | glass distance 4 mm $(\frac{5}{32}")$ | | 50 m (164'½") | 19447 |

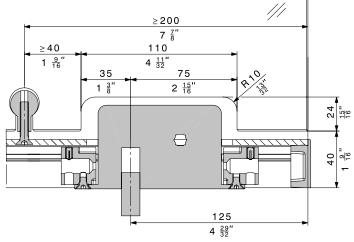
Glass cutouts

The glass ESG (fully tempered monolithic glass) must be provided with cutouts for installation of the glass holder inserts and the safety locks.

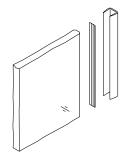
- Glass thickness sliding door ESG (fully tempered monolithic glass): $8-16 \text{ mm} \left(\frac{5}{16}\right]^{-\frac{5}{8}}$, thickness tolerance \pm 0,3 mm
- All glass edges are seamed; maximum 1 mm $(\frac{1}{16}")$ in the glass cutout



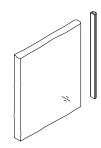
Glass cutout for glass holder



Glass cutout for safety locks



The glass edge protection profile is made of transparent plastic and is fitted to the glass edge with double-sided adhesive tape.



The self-adhesive rubber profile in black or translucent reduces draughts to a minimum and protects the glass edge.

H A W A - Super 250/G

Cutouts

| | code |
|---|-------|
| Cutout, bar bolt lock for 17 mm (11/18), for double cylinder | 18489 |
| Cutout left, bar bolt lock for 17 mm (11), for single cylinder | 21331 |
| Cutout right, bar bolt lock for 17 mm $(\frac{11}{16})$, for single cylinder | 21332 |
| Cutout, bar bolt lock for 22 mm $(\frac{7}{8})$, for double cylinder | 18490 |
| Cutout left, bar bolt lock for 22 mm $(\frac{7}{8})$, for single cylinder | 21333 |
| Cutout right, bar bolt lock for 22 mm ($\frac{7}{8}$ "), for single cylinder | 21334 |
| Cutout, bar bolt lock, left, square/hexagon socket | 18492 |
| Cutout, bar bolt lock, right, square/hexagon socket | 18491 |

Surface treatments

| | code |
|--|-------|
| Basic treatment fee to surface treatment, lump sum per colour | 16741 |
| Powder-coated to RAL code | 14163 |
| Plain anodized, polished, brushed | 14626 |
| Stainless-steel effect, hard anodized, brushed, polished, mat finish | 14378 |
| Chrome effect, polished finish | 14630 |
| Stainless-steel effect, nickel-plated, brushed, mirror finish | 14631 |

Services

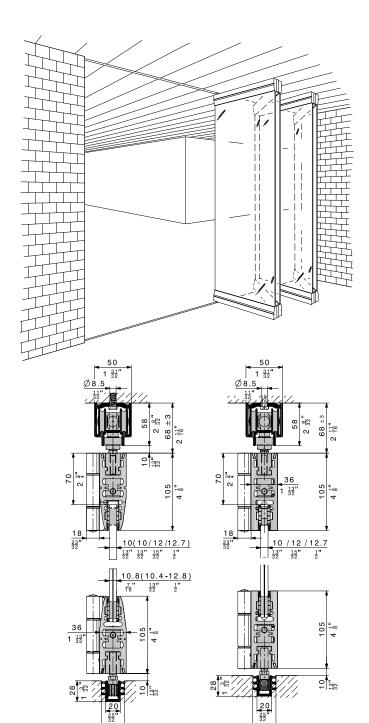
Surface treatments are charged separately. Price on request.

Order specifications

- Quantity of sliding doors
- Type and length of running track
- Width and height of glass
- Thickness of glass
- Quantity and type of covering caps
- Type of bottom guide
- Length of bottom guide channel
- Type of surface-mounted lock
- Type of protective transparent edge trim

Planning/installation

For planning and installation purposes, please use the installation drawing code 18198. (→ www.hawa.ch → HAWA-Productfinder)



Hardware system for all-glass folding walls with panels weighing up to 80 kg (176 lbs.)

Description

HAWA-Variofold 80/GV is a hardware system for all-glass folding-wall installations with an even number of panels. If required, an access door may also be installed on the opposite side to the folding stack. Our documentation simplifies the task of planning such systems, and installation is also simple and convenient. All mechanisms, suspension devices, guides and locks are fully integrated into highly attractive suspension and glass retainer profiles, which are the same ones used for HAWA-Variotec 150/GV stacking-wall system. 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. The newly developed hinge is installed on the side of the profile.

Applications

This hardware system is ideal for use wherever a room needs to be divided using a high-quality glass folding wall that is also simple to operate, e.g. in shopping centres, airports, hotels, restaurants, banks, etc.

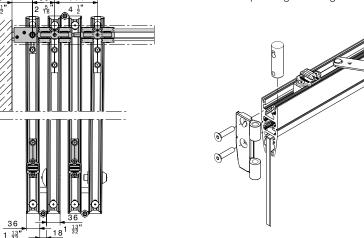
Features of the HAWA-Variofold 80/GV

- Min. panel width 400 mm (1'3³/₄")
- Max. panel width 900 mm (2'11 7/16
- Max. panel height 2600 mm (8'6 $\frac{3}{8}$ ")
- Max. panel weight 80 kg (176 lbs.)
- The same components may be used for constructing installations that open to the left or right, inwards or outwards
- The opposite side may be equipped with a separate pivot door
- Vertical adjustment $\pm 3 \text{ mm } (\pm \frac{1}{8}")$
- Elegant design
- Secure locking mechanism
- Extremely smooth and silent operation
- Minimal space requirement in stacking area
- Glass thickness fixed glass

ESG (fully tempered monolithic glass): $10/12/12,7 \text{ mm} \left(\frac{13}{32}\right)^{15}/\frac{1}{32}$ VSG (fully tempered laminated glass): 10,8–13 mm ($\frac{7}{16}$ – $\frac{17}{32}$ ")

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.



Hawa Sliding Solutions AG 8932 Mettmenstetten Switzerland www.hawa.ch Tel. +41 44 787 17 17 Fax +41 44 787 17 18

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

Partial sets without running track and bottom guide channel

| | | code |
|-----------------|---------------------------------------|-------|
| | Set for 2 panels | 16780 |
| V 7 | Set for 2 panel unit with pivot panel | 16781 |
| \overline{VV} | Set for 4 panels | 16782 |
| VV 7 | Set for 4 panel unit with pivot panel | 16783 |
| VVV | Set for 6 panels | 16784 |
| VVV / | Set for 6 panel unit with pivot panel | 16785 |

HAWA-Variofold installations must be equipped with bottom guide channels, except sets 16780 and 16781.

Partial sets comprising

| r ai iiai seis compns | 9 | | _ | _ | | | _ | |
|-----------------------|--|-------|-------|-------|-------|-------|-------|-------|
| | | 16780 | 16781 | 16782 | 16783 | 16784 | 16785 | code |
| | Four-wheeled trolley, M10, with plastic wheels | 1 | 1 | 1 | 1 | 1 | 1 | 16482 |
| 600 | Four-wheeled trolley, M10, with plastic wheels and spacer | _ | _ | 1 | 1 | 2 | 2 | 16685 |
| 0 | Top pivot bearing | 1 | 2 | 1 | 2 | 1 | 2 | 16485 |
| | Vertically adjustable driver for pivot door | 1 | 2 | 1 | 2 | 1 | 2 | 16325 |
| | Folding-/pivot door catch, adjustable | 1 | 2 | 2 | 3 | 3 | 4 | 20426 |
| | HAWA-bar bolt lock, square/hexagon socket 7/8 mm, complete with pivot | _ | 2 | 1 | 2 | 2 | 3 | 16968 |
| | Guide, rattle proof, plastic, 14 mm $(\frac{9}{16})$, with suspension block | _ | _ | 2 | 2 | 3 | 3 | 13781 |
| 3 | Vertical adjustment key SW 19 | 1 | 1 | 1 | 1 | 1 | 1 | 10789 |
| 6/ | Suspension assembly locking wrench SW 10/11 | 1 | 1 | 1 | 1 | 1 | 1 | 14861 |
| al fra | Fork spanner SW 22/12, pivot door vertical adjustment | 1 | 1 | 1 | 1 | 1 | 1 | 15409 |

Running tracks

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

Bottom guide channels

| Caution: Hole positions vary | | mm/inch | code |
|---|---|---|-------|
| | Bottom guide channel, alu plain anodized, predrilled, | 6000 (19'8 ⁷ / ₃₂ ") | 13688 |
| 31 x 28 mm (1 ⁷ / ₃₂ " x 1 ¹ / ₈ ") | cut to size | 13690 | |

Glass suspension and retainer profiles

| | | mm/inch | code |
|--|--|--|-------|
| | Glass suspension retainer profile, | 6500 (21'3 ²⁹ ") | 16669 |
| | alu plain anodized, brushed | cut to size | 19868 |
| | Glass suspension retainer profile, alu, unanodized | 6500 (21'3 ²⁹ ") | 13576 |
| | | cut to size | 13681 |
| | Glass suspension retainer profile, | 6500 (21'3 ²⁹ / ₃₂ ") | 23440 |
| | alu plain anodized, brushed (straight profile) | cut to size | 23443 |

Components

| | | | Į. | |
|---|--|---|-------|--|
| | | | code | |
| | | ESG ¹ 10 mm (¹³ / ₃₂ ") | 13900 | |
| | Set of glass-fixing | ESG ¹ 12 mm (¹⁵ / ₃₂ ") | 13901 | |
| | parts, for 1 sliding door | ESG1 12,7 mm (1/2") | 13902 | |
| | (4 pieces) | VSG ² 2 x 5 mm (2 x $\frac{7}{32}$ ") | 21263 | |
| - (, , , , , , , , , , , , , , , , , , | VSG ² 2 x 6 mm (2 x ¹ / ₄ ") | 23542 | | |
| | HAWA-bar bolt lock | profile cylinder 17 mm $(\frac{11}{16})$ | 16760 | |
| | with retention pin | round cylinder 22 mm (7/8") | 16761 | |
| | HAWA-bar bolt lock, square/hexagon socket 7/8 mm, complete with pivot | | 16968 | |
| | Security rose 12 mm (cylinder 17 mm (11 mm), cylinder 18 mm (11 mm), cylinder 19 mm), cylinder 19 mm, cylinder | 14147 | | |
| 0 | Floor-mounted sleeve chromium-plated bras | 13787 | | |
| | Rosette for floor-mour | Rosette for floor-mounted sleeve 13787 | | |
| | Thrust bearing sleeve, for pivot door | 16326 | | |
| | Thrust bearing, adjust for fitting into bottom | 22299 | | |
| | Strike plate, chromium-plated steel | | 13130 | |

Components

| | | code |
|--|----------------------|-------|
| Hinge, zinc alloy, | dull chromium finish | 16091 |
| with fixing screws | raw | 16088 |
| Hinge, zinc alloy, with fixing screws (straight profile) | dull chromium finish | 25976 |
| Cover caps, zinc alloy, | dull chromium finish | 16692 |
| set of 4 pieces | | 16693 |
| Cover caps, zinc alloy, set of 4 pieces (straight profile) | dull chromium finish | 25982 |

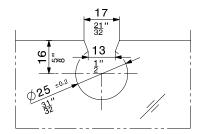
Accessories

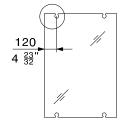
| | | | code |
|----------|---|-------------------------|-------|
| | Cover cap (1 piece) | dull chromium finish | 16690 |
| ∞ | Cover cap (1 piece) | raw | 16691 |
| | Additional top lock | | 16491 |
| | Short connecting rod for door height up to 2500 mm (8'2 $\frac{7}{16}$ ") | | 14164 |
| | Long connecting rod for door height over 2500 mm (8'2 $\frac{7}{16}$ ") | | 14165 |
| | Brush seal 2,6/18 x 920 mm $(\frac{1}{8}"/\frac{22}{52}" \times 3'\frac{7}{52}")$ for glass suspension and retainer profile | | 16797 |
| | Fork spanner to glass holder insert | | 13817 |
| | Installation tool for blocking keys $10-12,7$ mm $(\frac{13^{u}}{32}-\frac{1}{2})$ glass | | 13710 |
| | Drilling jig, for hinge retention bolts | | 16979 |

Glass cutouts for sliding door

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

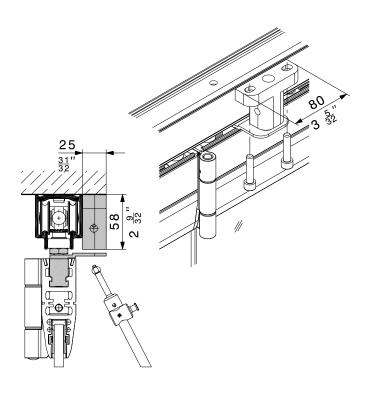
- Glass thickness sliding door ESG (fully tempered monolithic glass): $8/10/12/12,7 \text{ mm} \left(\frac{5}{16}"/\frac{13}{20}"/\frac{15}{32}"/\frac{1}{2}"\right)$, thickness tolerance \pm 0,3 mm
- Glass thickness sliding door VSG (fully tempered laminated glass):
 2x5 ± 0,2 mm → film thickness 0,76/1,52 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 $(\frac{3}{32}")$ in the glass cutout





Additional top lock

The additional top lock code 16491 ensures more security.



Service

| | | code |
|---|----------------|-------|
| Lock cutout incl drilling for double cylinder | 17 mm (11/16") | 19615 |
| Lock cutout filet driffing for double cylinder | 22 mm (7/8") | 19616 |
| Lock cutout incl. drilling for square/hexagon socket | | |
| Lock cutout incl. drilling for double cylinder and | 17 mm (11/16") | 19612 |
| retention bolts | 22 mm (7/8") | 19613 |
| Lock cutout incl. drilling for square/hexagon socket andretention bolts | | |
| Drilling on both sides for hinge retention bolts | | |
| Surface treatment are charged separately. Prices on request. | | |

Order specifications

- · Quantity and type of sets
- Length of running track
- Length of bottom guide channel
- Width and height of glass
- · Thickness of glass
- Quantity and type of cover caps
- Quantity and type of bottom guides
- Layout sketch

Optional order specifications

- · Quantity of additional top lock
- · Quantity and type of connecting rod
- Quantity of drilling jig, for hinge retention bolts
- · Quantity and type of tool for glazing
- · Quantity of brush profile

Planning/installation

For planning and installation purposes, please use the installation drawing code 16824. (→ www.hawa.ch → HAWA-Productfinder)

H A W A -- Variofold 80/GV - Offer and order form

| ☐ Offer | □ Order | Delivery address |
|------------------|---------------------|--------------------|
| Customer | Object | Customer |
| Address | City | Address |
| Telephon/Telefax | Date | City |
| Delivery date | Professional worker | Telephon / Telefax |

Maximum panel width 900 mm (2'11 $\frac{11}{16}$ "), maximum panel weight 80 kg (176 lbs.) Please copy this form, fill it out and mail or fax it to Hawa AG (fax no. +41 44 787 17 18)

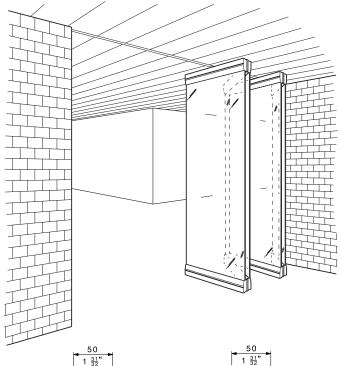
| Sets without running track and | | 1 6781 | 1 6782 | 1 6783 | 1 6784 | 1 6785 |
|---|--------------|----------------------|---------------------|-----------------------|-------------------|---------------|
| bottom guide channel | 2 | 2+1 | 4 | 4+1 | 6 | 6+1 |
| | | V 7 | VV | VV 7 | VVV | VVV / |
| | | | Maximum widths o | of folding partitions | 3 | |
| | 1800 | 2700 | 3600 | 4500 | 5400 | 6300 |
| Necessary components | Variofold ir | nstallations must be | equipped with botto | om guide channels, | except nos. 16780 | and 16781. |
| Glass thickness/glass attachment components | | | | | | |
| \square 10 mm ($\frac{13}{32}$) \square 12 mm ($\frac{15}{32}$) \square 12,7 mm ($\frac{1}{2}$) 13900 13901 13902 | 2 | 3 | 4 | 5 | 6 | 7 |
| Lock for access | | | | | | |
| \square cyl. 17 mm ($\frac{11}{16}$) \square cyl. 22 mm ($\frac{7}{8}$ ") \square 4/6-sided nut 16760 16968 | 2 | 1 | 1 | 1 | 1 | 1 |
| Security rose | | | | | | |
| \square cyl. 17 mm ($\frac{11}{16}$) Security rose for standard 14147 profile cylinders 22 mm ($\frac{7}{8}$ ") | 2 | 1 | 1 | 1 | 1 | 1 |
| Locking device | | | | | | |
| ☐ floor-mounted sleeve ☐ strike plate 13787 13130 | 2 | 3 | _ | _ | _ | _ |
| Hinge | | | | | | |
| ☐ dull chromium finish ☐ raw 16091/25976 16088 | 2 | 2 | 6 | 6 | 10 | 10 |
| Thrust bearing | | | | | | |
| ☐ Thrust bearing ☐ Thrust bearing, adjust. 16326 | 1 | 2 | 1 | 2 | 1 | 2 |
| Cover caps, set of 4 pieces | | | | | | |
| ☐ dull chromium finish ☐ raw 16692/25982 16693 | 1 | 2 | 1 | 2 | 1 | 2 |
| Clear dimensionmm | | | LN | ИВ | | |

Optional accessories

| Additional lock at top 16491 | 1 | 2 | 2 | 3 | 3 | 4 |
|--|-----------------------------------|--------------------|--|----|-------|----|
| Connecting rod, for door height | | | | | | |
| up to 2500 mm (8'2 $\frac{7}{16}$ ") over 2500 mm (8'2 $\frac{7}{16}$ ") 14164 14165 | 1 | 1 | 1 | 1 | 1 | 1 |
| ☐ Brush seal 2,6/18 x 920 mm (¹ / ₈ "/ ²² / ₂₂ " x 3 ⁷ / ₈₂ ") 16797 | 4 | 6 | 8 | 10 | 12 | 14 |
| Tools for glazing | | | | | | |
| Forkspanner Installation tool | 1 | 1 | 1 | 1 | 1 | 1 |
| ☐ Drilling jig, for hinge retention bolts 16979 | 1 | 1 | 1 | 1 | 1 | 1 |
| Surface treatment of suspension and glass retainer profiles (16741, basic treatment fee to surface | ☐ 14163 Powder-coatet to RAL code | | ☐ 14630 Chrome effect, polished finish | | inish | |
| treatment, lump sumper colour) | □ 14626 Plain, a | nodized, polished, | brushed | | | |

Please note: orders can only be processed if this form has been filled out correctliy.

| Date | Signature |
|------|-----------|
| | |



. 32 32 32 32 36 0.5 1 13 10 /12 /12.7 10/12/12.7 13" 15" 32 13" 15" 32 32" .8 (10.4 - 12.8) 10.8(10.4-12.8 13' 32 13" 32" 7 0.5 0.5

 $Z \ge 5 \text{ mm } (\frac{7}{32})$ Clearance between wall and door



Description

With all-glass concertina-wall installations, the suspension point is in the centre of the panel, which means that up to 61/2 panels may be installed without the need for a bottom guide. An access door equipped with our top pivot may also be added on the opposite side to the folding stack. All mechanisms, suspension devices, guides and locks are fully integrated into highly attractive suspension and glass retainer profiles, and our newly developed hinge is installed on the side of the profile. The suspension and glass retainer profiles are the same ones used for HAWA-Variotec 150/GV stacking-wall system. 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. Our documentation simplifies the task of planning such systems, and installation is also simple and convenient.

Applications

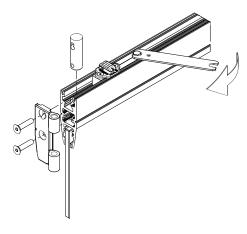
This hardware system is ideal for use wherever a room needs to be divided using a high-quality glass concertina wall that is also simple to operate, e.g. in shopping centres, airports, hotels, restaurants, banks, etc.

Features of the HAWA-Centerfold 80/GV

- Min. panel width 500 mm (1'7 11/16
- Max. panel width 900 mm (2'11 7 18")
- Max. panel height 2600 mm (8'6 $\frac{3}{8}$ ")
- Max. panel weight 80 kg (176 lbs.)
- The same components may be used for constructing installations that open to the left or right, inwards or outwards
- The opposite side may be equipped with a separate pivot door
- Vertical adjustment ± 3 mm (± ½")
- Elegant design
- Secure locking mechanism
- Extremely smooth and silent operation
- · Minimal space requirement in staking area
- Glass thickness fixed glass ESG (fully tempered monolithic glass): 10/12/12,7 mm (\frac{13}{32} \big| \frac{15}{32} \big| \frac{1}{3} \big| \frac{1} VSG (fully tempered laminated glass): 10,8–13 mm ($\frac{7}{16}$ – $\frac{17}{32}$ ")

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.



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

Partial sets without running track and bottom guide channel

| | | code | |
|---|--|-------|--|
| | Set for $1\frac{1}{2}$ panel | 16786 | |
| √ | Set for $1\frac{1}{2}$ panel unit with pivot panel | 16787 | |
| - | Set for $2\frac{1}{2}$ panels | 16788 | |
| ₩ | Set for $2\frac{1}{2}$ panel unit with pivot panel | 16789 | |
| ₩- | Set for $3\frac{1}{2}$ panels | 16790 | |
| ₩ 7 | Set for $3\frac{1}{2}$ panel unit with pivot panel | 16791 | |
| \\\\ | Set for $4\frac{1}{2}$ panels | 16792 | |
| ₩7 | Set for $4\frac{1}{2}$ panel unit with pivot panel | 16793 | |
| ₩₩ | Set for 5½ panels | 16794 | |
| √\\ | Set for $5\frac{1}{2}$ panel unit with pivot panel | 16795 | |
| In principle, HAWA-Centerfold systems may be installed without the need for a bottom guide channel. | | | |

Running tracks

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

Bottom guide channels

| Caution: Hole positions vary | | mm/inch | code |
|------------------------------|---|-------------|-------|
| Bottom guide channel, | 6000 (19'8 ⁷ / ₃₂ ") | 13688 | |
| | alu plain anodized, predrilled, 31 x 28 mm $(1\frac{7}{32}$ " x $1\frac{1}{8}$ ") | cut to size | 13690 |

Glass suspension and retainer profiles

| | mm/inch | code |
|---|--|-------|
| Glass suspension retainer profile, alu plain, anodized, | 6500 (21'3 ²⁹ ") | 16669 |
| brushed | cut to size | 19868 |
| Glass suspension retainer | 6500 (21'3 ²⁹ ") | 13576 |
| profile, alu, unanodized | cut to size | 13681 |
| Glass suspension retainer | 6500 (21'3 ²⁹ / ₃₂ ") | 23440 |
| profile, alu plain, anodized, brushed (straight profile) | cut to size | 23443 |

Partial sets comprising

| r ai uai sets compris | | 16786 | 16787 | 16788 | 16789 | 16790 | 16791 | 16792 | 16793 | 16794 | code |
|-----------------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | Four-wheeled trolley, M10, with plastic wheels | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 | 16482 |
| | Four-wheeled trolley, M10, with plastic wheels and spacer | _ | _ | _ | _ | 1 | 1 | 1 | 1 | 2 2 | 16685 |
| 0 | Top pivot bearing | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 2 | 16485 |
| | Vertically adjustable driver for pivot door | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 2 | 16325 |
| | End stop | _ | _ | 1 | 1 | _ | - | 1 | 1 | | 16701 |
| | Folding-/pivot door catch, adjustable | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 4 | 20426 |
| | HAWA-bar bolt lock, square/hexagon socket 7/8 mm, complete with pivot | _ | 1 | _ | 2 | 1 | 3 | 2 | 4 | 3 5 | 16968 |
| | Vertical adjustment key SW 19 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 | 10789 |
| | Suspension assembly locking wrench SW 10/11 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 | 14861 |
| 4/20 | Fork spanner SW 22/12, pivot door vertical adjustment | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 1 | 15409 |

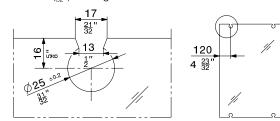
Components

| | | code | | |
|---|--|-------|--|--|
| | ESG1 10 mm (13/32") | 13900 | | |
| Set of glass-fixing | ESG ¹ 12 mm (¹⁵ / ₃₂ ") | 13901 | | |
| parts, for 1 sliding door | ESG1 12,7 mm (1/2") | 13902 | | |
| (4 pieces) | VSG ² 2 x 5 mm (2 x ⁷ / ₃₂ ") | 21263 | | |
| (| VSG ² 2 x 6 mm (2 x ¹ / ₄ ") | 23542 | | |
| HAWA-bar bolt lock | profile cylinder 17 mm $(\frac{11}{16})$ | 16760 | | |
| with retention pin | round cylinder 22 mm (7/8") | 16761 | | |
| HAWA-bar bolt lock, sq 7/8 mm, complete with | | 16968 | | |
| Security rose 12 mm (cylinder 17 mm ($\frac{11}{16}$), c | | 14147 | | |
| Floor-mounted sleeve with oblong hole and chromium-plated brass spring | | | | |
| Rosette for floor-mounted sleeve 13787 | | | | |
| Thrust bearing sleeve, Ø 30 mm ($1\frac{3}{16}$ "), for pivot door | | | | |
| Thrust bearing, adjustable, Inox, for fitting into bottom guide channel | | | | |
| Strike plate, chromium | -plated steel | 13130 | | |
| Hinge, zinc alloy, | dull chromium finish | 16091 | | |
| with fixing screws | raw | 16088 | | |
| Hinge, zinc alloy, with fixing screws (straight profile) | dull chromium finish | 25976 | | |
| Cover caps, zinc alloy, | dull chromium finish | 16692 | | |
| set of 4 pieces | raw | 16693 | | |
| Cover caps, zinc alloy, set of 4 pieces (straight profile) | et of 4 pieces dull chromium finish | | | |

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): $10/12/12,7 \text{ mm} \left(\frac{138}{32} \frac{y_3^2}{32} \frac{y_1^2}{2} \right)$, thickness tolerance $\pm 0,3 \text{ mm}$
- Glass thickness sliding door VSG (fully tempered laminated glass):
 2x5 ± 0,2 mm → film thickness 0,76/1,52 mm
 2x6 ± 0,2 mm → film thickness 0,38/0,76 mm
- All glass edges are seamed; maximum 1 mm (¹/₁₆) in the glass cutout
- VSG (fully tempered laminated glass) permissible with max. offset of 2 mm (³/₃") in the glass cutout



1fully tempered monolithic glass

²fully tempered laminated glass

Accessories

| | | | code | | | | |
|----------|--|-------|-------|--|--|--|-------|
| | Cover cap (1 piece) | 16690 | | | | | |
| ∞ | oover cap (1 piece) | raw | 16691 | | | | |
| | Additional top lock | | 16491 | | | | |
| | Short connecting rod for door height up to 2500 mm (8'2 $\frac{7}{16}$ ") | | | | | | 14164 |
| | Long connecting rod for door height over 2500 mm (8'2 $\frac{7}{16}$ ") | | | | | | |
| | Guide with plastic slider, rattle proof, 14 mm (^९ ") and suspension block | | | | | | |
| | Brush seal 2,6/18 x 920 mm $(\frac{1}{8}"/\frac{26}{8}" \times 3'\frac{7}{80}")$ for glass suspension and retainer profile | | | | | | |
| | Fork spanner to glass holder insert | | | | | | |
| | Installation tool for blocking keys $10-12,7$ mm $(\frac{13}{52},-\frac{1}{2})$ glass | | | | | | |
| | Drilling jig, for hinge retention bolts | | | | | | |

Additional top lock and services

Details: → HAWA-Variofold 80/GV

Order specifications

- · Quantity and type of sets
- Length of running track
- Length of bottom guide channel
- Width and height of glass
- Thickness of glass
- Quantity and type of cover caps
- Quantity and type of bottom guides
- Layout sketch

Optional order specifications

- Quantity of additional top lock
- Quantity and type of connecting rod
- Quantity of drilling jig, for hinge retention bolts
- Quantity and type of tool for glazing
- Quantity of brush profile

Planning/installation

For planning and installation purposes, please use the installation drawing code 16825. (→ www.hawa.ch → HAWA-Productfinder)

H A W A -- Centerfold 80/GV - Offer and order form

| ☐ Offer | □ Order | Delivery address |
|------------------|---------------------|--------------------|
| Customer | Object | Customer |
| Address | City | Address |
| Telephon/Telefax | Date | City |
| Delivery date | Professional worker | Telephon / Telefax |

Maximum panel width 900 mm (2'111; m), maximum panel weight 80 kg (176 lbs.) Please copy this form, fill it out and mail or fax it to Hawa AG (fax no. +41 44 787 17 18)

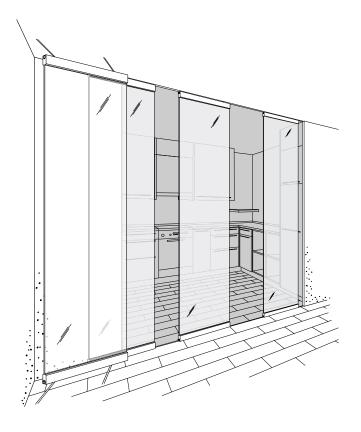
| Please copy this form, fill it out and mail or fax i | t to nawa | AU (lax ili | U. + 41 44 | 101 11 10 | , | | | | | |
|--|----------------|--------------------|-----------------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|
| Sets without running track and | □ 16786 | 1 6787 | 1 6788 | 1 6789 | 1 6790 | 1 6791 | 1 6792 | 1 6793 | 1 6794 | 1 6795 |
| bottom guide channel | 1 1 2 | $1\frac{1}{2} + 1$ | 21/2 | $2\frac{1}{2} + 1$ | 3 1/2 | $3\frac{1}{2} + 1$ | 41/2 | $4\frac{1}{2} + 1$ | 5½ | $5\frac{1}{2} + 1$ |
| | | 1-4 | 4 | / W | * | 1 | -W | / /// | //// | WV 7 |
| | | | | | ım widths c | | | | | |
| | 1400 | 2300 | 2300 | 3200 | 3200 | 4100 | 4100 | 5000 | 5000 | 5900 |
| Necessary components | | In principle, | Centerfold | systems ma | y be installe | ed without t | he need for | a bottom gu | uide channe | l. |
| Glass thickness/glass attachment components | | | | | | | | | | |
| \square 10 mm ($\frac{13}{32}$ ") \square 12 mm ($\frac{15}{32}$ ") \square 12,7 mm ($\frac{1}{2}$ ") 13900 13901 13902 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 |
| Lock for access | | | | | | | | | | |
| \square cyl. 17 mm ($\frac{11}{16}$ ") \square cyl. 22 mm ($\frac{7}{8}$ ") \square 4/6-sided nut 16760 16968 | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| Security rose | | | | | | | | | | |
| \square cyl. 17 mm ($\frac{11}{16}$ ") Security rose for standard 14147 profile cylinders 22 mm ($\frac{7}{8}$ ") | 1 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 |
| Locking device | | | | | | | | | | |
| ☐ floor-mounted sleeve ☐ strike plate 13787 13130 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 |
| Hinge | | | | | | | | | | |
| ☐ dull chromium finish ☐ raw 16091/25976 16088 | 2 | 2 | 4 | 4 | 6 | 6 | 8 | 8 | 10 | 10 |
| Thrust bearing | | | | | | | | | | |
| ☐ Thrust bearing ☐ Thrust bearing, adjust. 16326 22299 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Cover caps, set of 4 pieces | | | | | | | | | | |
| ☐ dull chromium finish ☐ raw 16692/25982 16693 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 | 1 | 2 |
| Clear dimensionmm | | | | | LN | ИВ | | | | |

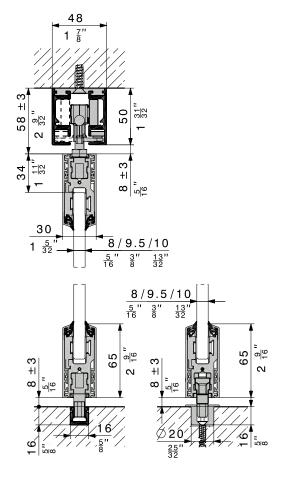
Optional accessories

| optional addessories | | | | | | | | | | | |
|--|---|---------------|-------------|---------------|-------------|----|---------------|-----------|--------------|-----------|----|
| Additional lock at top 16491 | | 1 | 2 | 2 | 3 | 2 | 3 | 3 | 4 | 3 | 4 |
| Connecting rod, for door he | eight | | | | | | | | | | |
| \square up to 2500 mm (8'2 $\frac{7}{16}$ ") 14164 | over 2500 mm (8'2 $\frac{7}{16}$ ") 14165 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ☐ Brush seal 2,6/18 x 920 16797 | mm $(\frac{1}{8}"/\frac{23}{32}" \times 3'\frac{7}{32}")$ | 3 | 5 | 5 | 7 | 7 | 9 | 9 | 11 | 11 | 13 |
| Tools for glazing | | | | | | | | | | | |
| ☐ Forkspanner 13817 | ☐ Installation tool 13710 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| ☐ Drilling jig, for hinge ret 16979 | ention bolts | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Surface treatment of suspe profiles (16741, basic treat | | 1 4163 | Powder-co | atet to RAL | code | | 1 4630 | Chrome ef | fect, polish | ed finish | |
| treatment, lump sumper co | | 1 4626 | Plain, anod | dized, polisl | ned, brushe | ed | | | | | |

Please note: orders can only be processed if this form has been filled out correctly.

| Date | Signature |
|------|-----------|
| | · · |





Glass sliding walls made easy.

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

Description

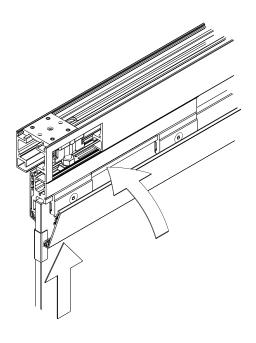
HAWA-Aperto 60/GL addresses the need for flexible, open room design. Specially developed for lightweight glass partitions, the system fits in perfectly with contemporary architectural design. Cover profiles are available in various finishes, protected by a removable foil. HAWA-Aperto 60/GL is easy to 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

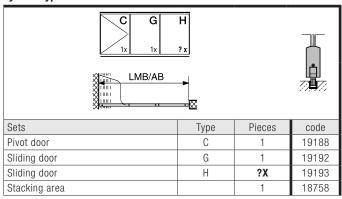
- Maximum door weight 60 kg (132 lbs.)
- Stacking area accommodates up to 9 door panels incl. pivot door
- Profile height 65 mm (2 9 1/16")
- Door thickness ESG (fully tempered monolithic glass): 8/9,5/10 mm $(\frac{5}{16} / \frac{9}{3} / \frac{139}{32})$
- Minimum door width 500 mm (1'7 11 1)
- Maximum door width (stacking parallel to the slide axis)
 - Sliding door: 1100 mm (3'7 $\frac{5}{16}$ ")
 - Pivot door: 1200 mm (3'11 1'')
- 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 $\pm 3 \text{ mm } (\frac{1}{8}")$
- 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



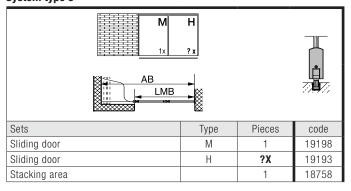
Stacking area options

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

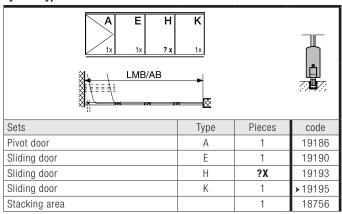
System type 1



System type 3

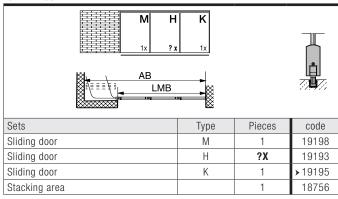


System type 5



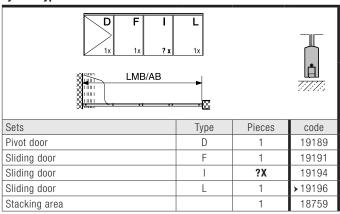
➤ Recommended connection pieces: → table on the next page.

System type 7



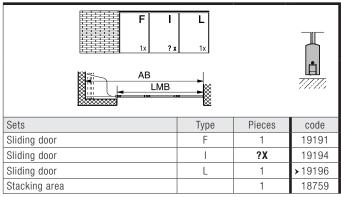
 \blacktriangleright Recommended connection pieces: \rightarrow table on the next page.

System type 2



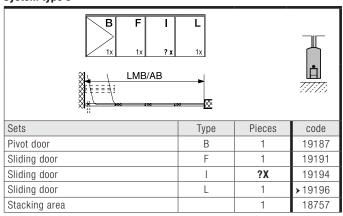
➤ Recommended connection pieces: → table on the next page.

System type 4



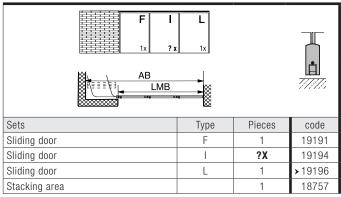
➤ Recommended connection pieces: → table on the next page.

System type 6



ightharpoonup Recommended connection pieces: ightharpoonup table on the next page.

System type 8



ightharpoonup Recommended connection pieces: ightharpoonup table on the next page.

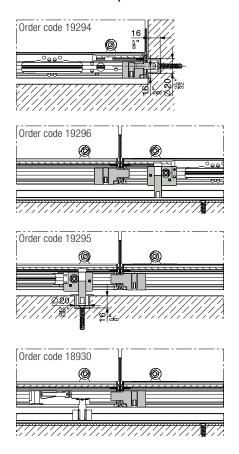
Connection options

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 |
|--------------------|------------------------------|-------|---|-------|
| | | | (A) | 19294 |
| | | 19294 | | 19294 |
| | | | | 19295 |
| <u>i</u> | | 19296 | | 19295 |
| | | 18930 | | 19295 |

Connection options front view



Fixed glass set

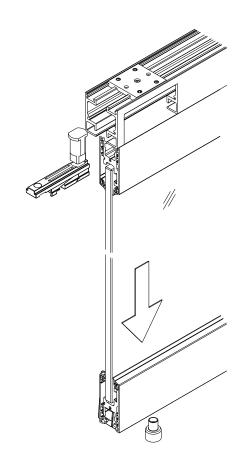
| | code |
|---------------------------------------|-------|
| Fixed glass set for HAWA-Aperto 60/GL | 19750 |

Fixed glass

The fixed glass set facilitates a complete and harmonious solution.

Set comprising

| oct comprising | | | |
|--|--|--------|-------|
| | | pieces | code |
| | Suspension plate with retainer bolt for fixed glass | 2 | 19714 |
| | Location bolt, stainless steel, for fixed glass, set of 2 pieces | 1 | 19715 |
| | Glass retainer profile 240 mm (9 $\frac{15}{82}$ "), aluminium | 4 | 19026 |
| A STATE OF THE STA | Retainer plate for glass retainer profile, including screws, set of 8 pieces (for 1 door) | 1 | 19264 |
| | Suspension bolt for glass suspension profile with set screw, set of 8 pieces (for 1 door) | 1 | 19265 |
| | Eccenter plastic, for glass fixing, set of 8 pieces (for 1 door) | 1 | 19266 |
| | Cover cap for glass retainer profile, plastic anthracite-grey RAL 7016, set of 4 pieces (for 1 door) | 1 | 19267 |



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 | outside | AB in mm - 130 mm | | 1 |
| toptrack | 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 | outside | AB in mm - 730 mm | | 1 |
| toptrack | inside | AB in mm - 1230 mm | | 1 |
| Bottom guid channel | le | AB in mm - 500 mm | | 1 |
| Top fixing plate | | AB in mm ÷ 500 | | |

Running tracks

| | | mm/inch | code |
|--|--|---|-------|
| <i>.</i> | | 2500 (8'2 ⁷ / ₁₆ ") | 17795 |
| | Single running track, alu plain anodized | 3500 (11'5 13 ") | 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, $16 \times 16 \text{ mm} \left(\frac{5}{8} \times \frac{5}{8} \right)$ | 6000 (19'8 ⁷ / ₃₂ ") | 18200 |
| | Bottom guide channel, alu plain anodized, predrilled, $16 \times 16 \times 3$ mm $(\frac{5}{8}" \times \frac{5}{8}" \times \frac{1}{8}")$ | 3500 (11'5 ¹³ ") | 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) |
|---------|--|---|
| LMB | LMB AT | LMB x 4 |
| 30 LMB | LMB + 30 ST | (LMB + 30) x 4 |
| LMB | for STB: LMB - 100 AT for DT: STB + 100 | LMB x 4 |
| 30 LMB | 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, | 800 (2'7 ½") | 19231 |
| | (finished by customer) | 1000 (3'3 \frac{3}{8}") | 19232 |
| | set for one door (4 pieces) | 1200 (3'1114") | 19233 |
| | Cover profile, alu plain | 800 (2'7 ½") | 19234 |
| | anodized, brushed, set for one door (4 pieces) | 1000 (3'3 3") | 19235 |
| | | 1200 (3'1114") | 19236 |
| | Cover profile, stainless steel effect, brushed, set for one door (4 pieces) | 800 (2'7 ½") | 19237 |
| | | 1000 (3'3 \frac{3}{8}") | 19238 |
| | | 1200 (3'1114") | 19239 |
| Clip-on rubber for cover profile, black, 10 m (32'9\frac{32}{32}") roll | | 19175 | |
| The clip-on rubber is necessary for installing the cover profile. | | | |

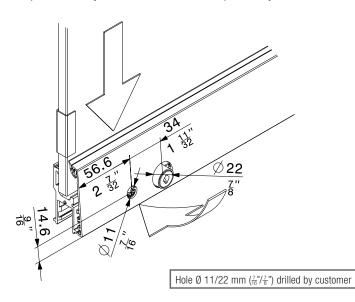
Glass fixing parts

| | | thickness of glass | code | |
|--|---|---|-------|--|
| | | 8 mm (5/16") | 19269 | |
| 100 | Glass fixing parts, set for one door (16 pieces) | 9,5 mm (³ / ₈ ") | 19271 | |
| | | 10 mm (13/32") | 19270 | |
| Glass fixing parts must be ordered to match the glass thickness. | | | | |

Cylinder module for round bar lock

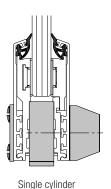
Lockable door sets include a round bar lock with rotary handle. A cylinder module with 3 locking options may also be ordered where it is necessary to secure the system.

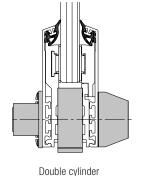
A cylinder module for 17 mm $(\frac{11}{16}")$ profile cylinders is available for installations with increased security requirements, e.g. shop fronts. It can be built into a locking installation and can also be fitted with a special security rosette for half or double-profiled cylinders.



Cylinder module/cylinder rosette

| | | key | code | |
|--|--|-----------------------------------|-------|--|
| | | Locking 01 | 19171 | |
| | Cylinder module with two keys and rosette | Locking 02 | 19172 | |
| | | Locking 03 | 19173 | |
| | Cylinder module for profile cylinder 17 mm († | | | |
| | Special security rose for single profile cylinder, length 29,5-31,5 mm (15.2) | -1 ¹ / ₄ ") | 19680 | |
| | Special security rose for double profile cylinder, length $59-63~\text{mm}~(2^{\frac{11"}{52}}-\frac{1}{2"})$ incl. thumbturn long | | 19699 | |

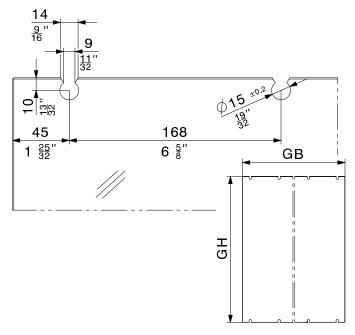




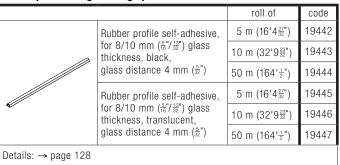
Glass cutouts

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

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



Rubber profile for glass edge protection



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: \rightarrow table
- Quantity and type of stacking area sets
- Quantity and length of running tracks: \rightarrow 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
- Quality of top fixing plates.

 Constitution
- 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°). (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

Stacking area sets

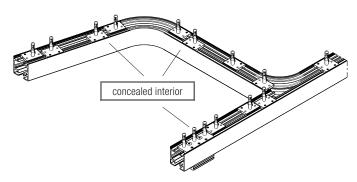
| | code |
|--|-------|
| Stacking area set, with bottom guide channel, stacking parallel | 18756 |
| Stacking area set, without bottom guide channel, stacking parallel | 18757 |
| Stacking area set, with bottom guide channel, stacking 90° | 18758 |
| Stacking area set, without bottom guide channel,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

sets comprising

| | | 18756 | 18757 | 18758 | 18759 | code |
|--|--|-------|-------|-------|-------|-------|
| | Single running track curved segment, 75° inside, length of leg 580 mm (1'10 💯") | 1 | 1 | _ | I | 17289 |
| | Single running track curved segment, 75° outside, length of leg 580 mm (1'10 %) | 1 | 1 | 1 | 1 | 17290 |
| | Single running track curved segment, 90° inside, length of leg 70 mm (2 $\frac{3}{4}$ ") | - | - | 1 | 1 | 16925 |
| A | Running track end stops, set | 1 | 1 | 1 | 1 | 19165 |
| | Connecting bolts, set of 6 pieces | 1 | 1 | 1 | 1 | 17221 |
| Grand State of the | 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 ½") | 1 | 1 | 1 | 1 | 18751 |
| | End stopper for alu bottom guide channel, 16×16 mm $(\frac{5}{8}" \times \frac{5}{8}")$ | 2 | - | 2 | - | 18652 |
| | End-piece for running track, 150 mm (5 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") | 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

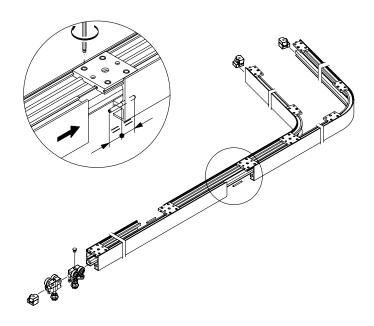
| | code |
|---|-------|
| Profile set for concealed interior for installations with stacking parallel to the slide axis, complete | |
| Profile set for concealed interior for installations with stacking 90° to the slide axis, complete | 19148 |

Set comprising

| | _ | | |
|---|-------|-------|-------|
| | 19147 | 19148 | code |
| Single running track curved segment, 75° inside, length of leg 580 mm (1'10 💯) | 1 | 1 | 17289 |
| Single running track 550 mm (1'7 $\frac{11}{6}$), for concealed interior, stacking parallel | 1 | _ | 19145 |
| Single running track 700 mm (2'3 $\frac{6}{16}$ "), for concealed interior, stacking parallel and 90° | 1 | 1 | 19146 |
| Top fixing plate for single running track, alu | 8 | 7 | 17749 |

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 | А | 19186 |
| Pivot door set for installation with parallel stacking area, without bottom guide channel | В | 19187 |
| Pivot door set for installation with 90° stacking area, with bottom guide channel | С | 19188 |
| Pivot door set for installation with 90° stacking area, without bottom guide channel | D | 19189 |

Set comprising

| | 19186 | 19187 | 19188 | 19189 | |
|---|-------|-------|-------|-------|-------|
| Door types | Α | В | С | D | code |
| Glass retainer profile 240 mm (9 ½"), alu | 3 | 3 | 3 | 3 | 19026 |
| Glass retainer profile 240 mm (9 ½), 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 x 5 8 bottom guide channel | _ | _ | 1 | 1 | 18730 |
| Bottom pivot with thrust bearing sleeve Ø 20 mm (32) | 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 (\$\frac{9}{32}") | 1 | 1 | 1 | 1 | 19170 |
| Thumbturn, chromium finish, with square pin 24 mm (15") | 1 | 1 | 1 | 1 | 19107 |
| Matching segment 300 mm (11 138), outside, for running track, concealed interior, stacking parallel | 1 | 1 | _ | _ | 18804 |
| Matching segment 300 mm (11 13"), inside, for running track, concealed interior, stacking parallel | 1 | 1 | _ | _ | 19144 |

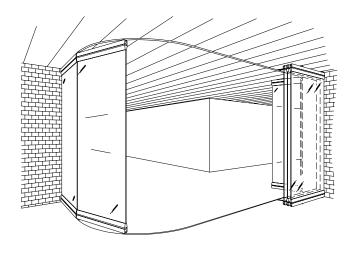
| | 19186 | 19187 | 19188 | 19189 | |
|--|-------|-------|-------|-------|-------|
| Door types | Α | В | С | D | code |
| Top fixing plate for 2 x single running track, alu | 1 | 1 | _ | _ | 17128 |
| Fork spanner SW 13 mm (17/1) | 1 | 1 | 1 | 1 | 19128 |
| Retainer plate for glass retainer profile, 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 | | | |
|-----------------------------------|---|-------|-------|--|--|--|
| | | Е | 19190 | | | |
| | | | | | | |
| | | G | 19192 | | | |
| Sliding door sets | | Н | 19193 | | | |
| Siluling door sets | | 1 | 19194 | | | |
| | | K | 19195 | | | |
| | | L | 19196 | | | |
| | М | 19198 | | | | |
| Sets comprising: → following page | | | | | | |

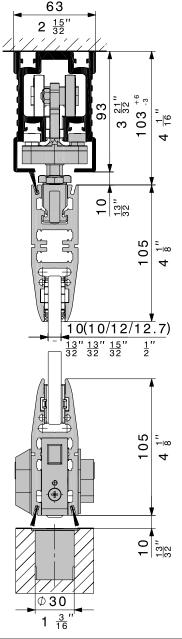
Sliding door sets comprising

| Sliding door sets co | mprising | | | | | | | | | |
|----------------------|--|---|-------|---|---|-----|---|---------|-----|-------|
| | Door types | | 19191 | | | 1 1 | | - 19196 | - 1 | code |
| | Glass retainer profile 240 mm (9 ½"), aluminium | 4 | | | | | | 3 | | 19026 |
| | Glass retainer profile 240 mm (9 5"), 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 (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 ($\frac{9}{52}$) and guide pin | - | _ | - | _ | _ | - | - | 1 | 19179 |
| | Round bar lock with square socket 7 mm (2") | _ | 1 | 1 | _ | - | _ | - | - | 19170 |
| | Thumbturn, dull chromium finish, with square pin 24 mm (विष् | _ | 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 |
| 5 | 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 |



Example of application

- Sliding door
- Standard profile
- · Bar bolt lock
- Closure in bottom sleeve
- ESG (fully tempered monolithic glass)



Modular hardware system for elegant all-glass sliding walls weighing up to 100 or 150 kg (220 or 330 lbs.) per panel.

Description

The HAWA-Variotec 150/GV is a hardware system with outstanding running properties around curved structures. Thanks to a trolley with 2-point suspension, glass sliding walls can be moved extremely quietly and smoothly along curved tracks. With its advanced technology, it is also regarded as unique among sliding hardware systems. Sliding revolving doors and sliding swinging doors can be integrated at any desired point. This system ensures that you can quickly and easily provide ideal complete solutions, including fixed glass for room separation.

Applications

This hardware system is suitable for use wherever high quality, elegance and quiet operation are called for, e.g. in shopping centres, hotels, restaurants, banks, airports, railway stations, industrial premises, winter garden, administrative buildings, etc.

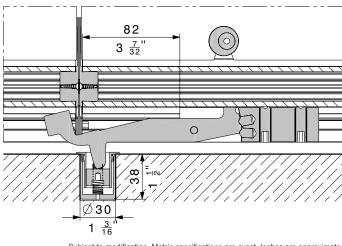
Features of the HAWA-Variotec 150/GV

- Modular system
- Trolley with 2-point guide wheels
- Progressive vertical adjustment (+6/-3 mm)
- Extremely smooth and quiet cornering
- Elegant top-fixed suspension and glass retainer
- Precision glazing
- Minimum axis radius, 4000 mm (13'1½")
- · All components installed in profile
- Secure locking mechanism
- Minimal space requirement in stacking area
- Running track with facing

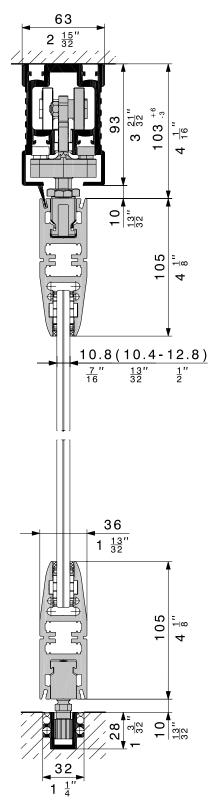
Glass cutouts

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

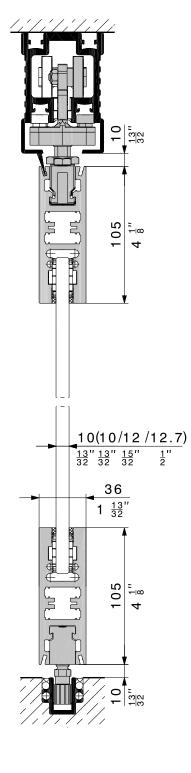
- Glass thickness sliding door ESG (fully tempered monolithic glass): $10/12/12,7 \text{ mm} \left(\frac{138}{32} \frac{y_3^2}{2} \frac{y_1^2}{2}\right)$, thickness tolerance $\pm 0,3 \text{ mm}$
- Glass thickness sliding door VSG (fully tempered laminated glass):
 2x5 ± 0,2 mm → film thickness 0,76/1,52 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



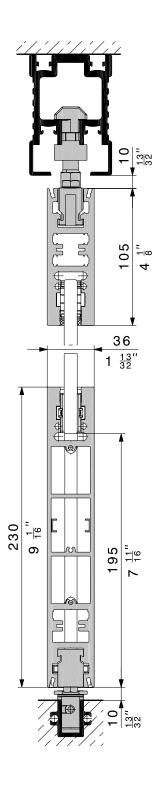
Further examples of application



- Sliding door
- Standard profile
- Guide slider in bottom guide channel
- · Without locking mechanism
- VSG (fully tempered laminated glass)



- Sliding door
- Straight profile, 105 mm (4 $\frac{5}{32}$ ")
- Guide slider in bottom guide channel
- Without locking mechanism
- ESG (fully tempered monolithic glass)



- Pivot door
- \bullet Top, straight profile, 105 mm (4 $\frac{5}{32}$ ")
- Bottom, straight profile, 230 mm (9 1 ")
- Without locking mechanism
- ESG (fully tempered monolithic glass)

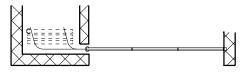
Layout examples

The layout examples shown here clearly demonstrate the flexibility of the HAWA-Variotec 150/GV, as well as the creative potentials it offers. This system permits the use of fixed glass fittings, swinging doors, sliding swinging doors and curved installations, etc. Each track can be customized on request for almost every curvature radius. The minimum axis radius for curved all-glass sliding walls is 4000 mm (13'1 $\frac{1}{2}$ ").

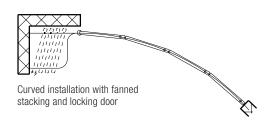
Countless floor plans - 4 examples:

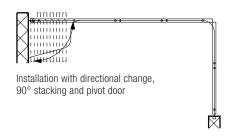


Straight installation with parallel stacking and pivot door



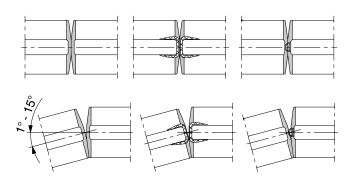
Straight installation with parallel stacking and locking door



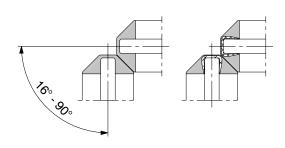


Space-saver

The mobility of HAWA-Variotec 150/GV makes it possible to save a considerable amount of space. It can stack doors in even the tiniest of spaces. Layout options are limitless thanks to two cover cap designs.

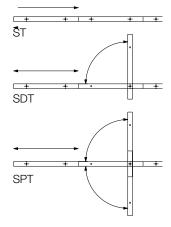


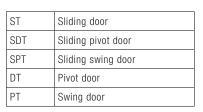
Straight and curved installations, and installations with a directional change of up to 15°, can be implemented using the standard cover cap 19903

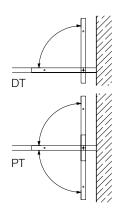


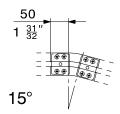
Cover cap 13587 is required for installations with directional changes between 16° and 90° $\,$







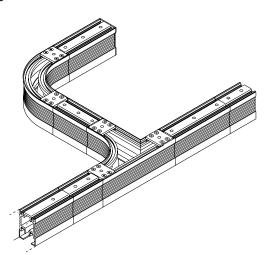




Cornering technology

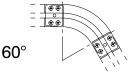
With this sliding-door hardware system it is possible for straight running tracks with integrated facing and curved sections with or without interior facing to be assembled in combinations of 15, 30, 45, 60, 75 and 90 degrees according to individual requirements. Special customized versions can also be provided. The minimum radius is 4000 mm (13'1 $\frac{1}{2}$ "). This flexibility permits simple storage, as well as planning and modifications at short notice.

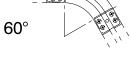
Parking area with concealed interior

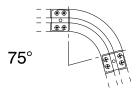


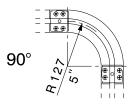
45°

30°

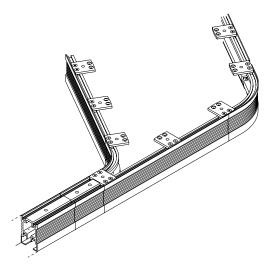


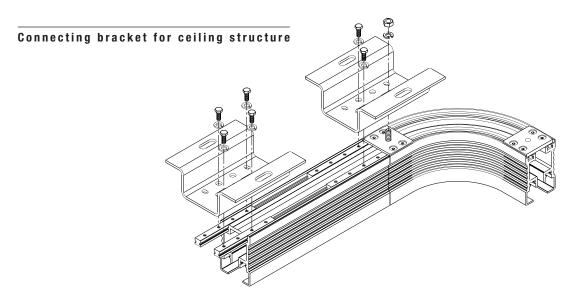






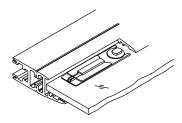
Parking area without concealed interior





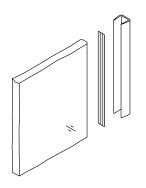
Glass retention eccentric

A glass retention eccentric with side wedge permits optimum and simple attachment of the glass. Before installation, the glass ESG (fully tempered monolithic glass) or VSG (fully tempered laminated glass) have to be prepared with cutouts.

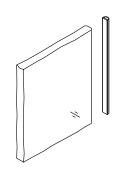


Seals and glass edge protection

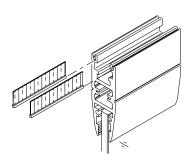
The system permits the integration of horizontal and vertical seals; these can also be fitted retrospectively. A transparent glass edge protection profile and the self-adhesive rubber profile are recommended to protect vertical glass edges. The latter not only protects the glass edge, but also reduces draughts to a minimum.







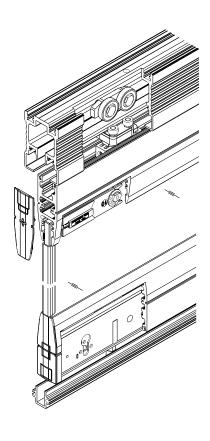
The self-adhesive rubber profile in black or translucent reduces draughts to a minimum and protects the glass edge.



The horizontal brush seal is inserted into the suspension profile and protects against draughts.

Glass suspension and retainer profile

Unsightly operating elements such as locks, top-fixed suspension and guide plates are integrated into the profile. The only visible component is a glass retainer which is of highly attractive design.



Better safe than sorry

One- or two-bolt safety lock is available for securing all-glass sliding doors: single-turn with toughened bars and 20 mm $(\frac{25''}{32})$ feed, cylinder aperture 17 mm $(\frac{11}{16})$ or 22 mm $(\frac{7}{8})$, or with square/hexagon socket. Closure in bottom sleeve with spring-loaded cover or in the bottom guide channel.

Accessories

Item codes and parts illustrations: → next pages

Order specifications

(Layout sketches of closed wall and available stacking space, with dimensions)

- Vertical cross-section of upper and lower situation
- · Length and height of complete glass front
- Door width
- Door height
- Thickness of glass
- Type of stacking
- · Quantity of sliding doors
- Quantity of pivot doors
- Quantity of swing doors
- Quantity of sliding pivot doors
- · Quantity of sliding swing doors
- Type of glass protective edge profile

Order specifications

Please contact us for planning and installation documentation. (→ www.hawa.ch → Systemplanner)

Running tracks

| alu p Dual alu p predi Servi pivot Cove alu p Inner curve alu p Oute curve alu p Runn segm direct Runn parki parki alu p Runn parki parki alu p | | | code | |
|--|---|--|-------------------|--|
| Dual alu p prediction of the p | e running track, | 6000 mm (19'8 ⁷ / ₃₂ ") | 15358 | |
| alu p predi | lain anodized | cut to size | 15360 | |
| Servi pivot Cove alu p Inner alu p Oute alu p Oute curve alu p Runn segm direc Runn parki parki alu p Runn parki parki alu p | running track, lain anodized, | 6000 mm (19'8 ⁷ / ₃₂ ") | 15361 | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | | cut to size | 15362 | |
| Inner alu p Inner curve alu p Oute curve alu p Runn segm direc Runn parki parki alu p Runn parki parki alu p | cing unit, dismountable, fixing | 100 mm (3 ½) | 15380 | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | Cover plate for dual running track, Ilu plain anodized | | | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | | 15° | 15377 | |
| Runn dual alu p Runn parki parki alu p | | 30° | 15375 | |
| Runn dual alu p Runn parki parki alu p | curve running track, | 45° | 15373 | |
| Curve alu p Oute alu p Oute curve alu p Runn segn direc Runn dual alu p Runn parki parki alu p | lain anodized | 60° | 1537 | |
| Oute alu p Oute curve alu p Runn segn direc Runn dual alu p Runn parki parki alu p | | 75° | 15369 | |
| Oute alu p Oute curve alu p Runn segn direc Runn dual alu p Runn parki parki alu p Runn parki parki alu p | | 90° | 15367 | |
| Runn segm direct Runn alu p Runn alu p Runn dual alu p Runn parki parki alu p | running track special ed segment Rm127, lain anodized | angle according to indication | 1980 ⁻ | |
| Runn segm direct Runn alu p Runn alu p Runn dual alu p Runn parki parki alu p | Outer curve running track, alu plain anodized | 15° | 1537 | |
| Runn segn direct Runn parki parki alu p Runn parki parki alu p | | 30° | 1537 | |
| Runn segm direct Runn dual alu p Runn parki parki alu p | | 45° | 1537 | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | | 60° | 1537 | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | | 75° | 1536 | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | | 90° | 1536 | |
| Runn dual alu p Runn parki parki alu p Runn parki parki alu p | running track special ed segment Rm127, lain anodized | angle according to indication | 1980 | |
| Runn dual alu p Runn parki parki alu p | | 15° | 1571 | |
| Runn dual alu p Runn parki parki alu p | | 30° | 1571 | |
| Runn dual alu p Runn parki parki alu p Runn parki alu p | ing track dual curved ent, for change in | 45° | 1572 | |
| dual alu p Runn parki parki alu p Runn parki alu p | tion, alu plain anodized | 60° | 1572 | |
| dual alu p Runn parki parki alu p Runn parki alu p | | 75° | 1572 | |
| dual alu p Runn parki parki alu p Runn parki alu p | | 90° | 1572 | |
| parki parki alu p Runn parki alu p | ing track-special curved segment Rm127, lain anodized | angle according to indication | 1866 | |
| parki parki alu p Runn parki parki alu p | ing track curved segment, | 45° | 1755 | |
| alu p Runn parki parki alu p | ng area branch, | 60° | 1584 | |
| Runn parki parki alu p | ng area left, lain anodized | 75° | 1584 | |
| parki parki alu p | | 90° | 1584 | |
| parki parki alu p | ing track curved segment, | 45° | 1755 | |
| alu p | ng area branch, | 60° | 1584 | |
| | ng area right, lain anodized | 75° | 1584: 1584: | |
| | 90° Top-fixing plate, alu plain anodized | | | |
| | Top-fixing plate, galvanized steel, for welding | | | |
| | ler to running track, galvan | | 15383 | |

Connection bracket for ceiling structure

| | code |
|---|-------|
| Connecting bracket for ceiling structur, without fixing parts | 17045 |
| Assembly parts for connecting bracket for ceiling structure | 19321 |

Track stops

| | code |
|---|-------|
| Running track stop complete, for single running track | 13779 |
| Running track stop complete, for dual running track | 13780 |

Matching segments for dual running track

| | code |
|--|-------|
| Matching segment for dual running track 45°-90° left | 16173 |
| Matching segment for dual running track 45°-90° right | 16174 |

Bottom guide channels

| | | | code | |
|---|---|--|-------|--|
| | Bottom guide channel, | 6000 mm (19'8 ⁷ / ₃₂ ") | 13688 | |
| | alu plain anodized, predrilled | cut to size | 13690 | |
| | | 15° | 13644 | |
| | | 30° | 13647 | |
| | Curved bottom guide channel, | 45° | 13650 | |
| | alu plain anodized, predrilled Bottom guide channel special curved segment Rm127, alu plain anodized | 60° | 13653 | |
| | | 75° | 13656 | |
| | | 90° | 13659 | |
| | | angle according to indication | 19645 | |
| | Matching segment for | left | 16778 | |
| | bottom guide channel 45 – 90° | right | 16779 | |
| Connecting bolt, Ø 6 x 40 mm (½" x 1½") | | | | |

Glass suspension and retainer profiles

| Glass suspension ar | iu retainer promes | | |
|---|---|---|-------|
| | T | | code |
| | Glass suspension and retainer profile, | 6500 mm (21'3 😤") | 13576 |
| | alu unanodized | cut to size | 13681 |
| | Glass suspension and retainer profile, | 6500 mm (21'3 😤") | 23441 |
| | alu unanodized (straight profile) | cut to size | 23442 |
| | Glass suspension and retainer profile, alu unanodized, incl. lock cutout | 1070 mm (3'6 ½") | 17300 |
| | Glass suspension and retainer profile, alu unanodized, incl. lock cutout (straight profile) | 1070 mm (3'6 ½") | 23477 |
| | Glass suspension and retainer profile, alu plain | 6500 mm (21'3 ²⁹ ") | 16669 |
| | anodized, brushed | cut to size | 19868 |
| | Installations with sliding sw cannot be carried out with a | | |
| | Glass suspension and retainer profile, | 6500 mm (21'3 32") | 23440 |
| | alu plain anodized, brushed (straight profile) | cut to size | 23443 |
| | Glass suspension and retainer profile, alu unanodizd, height 230 mm (9 16) | 4500 mm (14'9 ³ / ₁₆ ") | 19180 |
| | | cut to size | 19066 |
| 4. | Suspension profile, | 6500 mm (21'3 ²⁹ ") | 13682 |
| | alu unanodized | cut to size | 13683 |
| | Suspension profile, alu plain anodized, | 6500 mm (21'3 ﷺ) | 21833 |
| | brushed | cut to size | 21834 |
| /// | Glass suspension profile, alu unanodized | 6500 mm (21'3 32) | 13684 |
| | alu ullallouizeu | cut to size | 13685 |
| | Glass suspension profile, alu plain anodized, | 6500 mm (21'3 ﷺ) | 21835 |
| | brushed | cut to size | 21836 |
| 14. | Glass suspension profile, alu unanodized | 6500 mm (21'3 😤") | 23445 |
| | (straight profile) | cut to size | 23446 |
| | Glass suspension profile, alu plain anodized, brushed | 6500 mm (21'3 ﷺ) | 23503 |
| | (straight profile) | cut to size | 23504 |
| | Set of glass fixing parts, | ESG ¹ 10 mm (¹³ / ₃₂ ") | 13900 |
| | for 1 sliding door (4 pieces) | ESG¹ 12 mm (¹⁵ / ₃₂) | 13901 |
| | , p/ | ESG ¹ 12,7 mm (¹ / ₂ ") | 13902 |
| 9 | Set of glass fixing parts, for 1 sliding door | VSG ² 2 x 5 mm (2 x ⁷ / ₃₂ ") | 21263 |
| (4 pieces) VSG ² 2 x 6 mm (2 x ½") | | | 23542 |
| \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | Fork spanner to glass holder insert | | |
| | Installation tool for blocking $10-12,7$ mm $(\frac{13}{32}^{"}-\frac{1}{2}")$ glass | keys | 13710 |
| | | | |

Safety locks

| Safety locks | | | |
|--------------|---|--|-------|
| | | | code |
| | | profile cylinder 17 mm $(\frac{11}{16}")$ | 13856 |
| | One-bolt safety lock | round cylinder 22 mm ($\frac{7}{8}$ ") | 13857 |
| | | square/hexagon socket 7/8 mm | 13855 |
| | | profile cylinder 17 mm (11/16") | 13785 |
| | Two-bolt safety lock | round cylinder 22 mm $(\frac{7}{8}")$ | 13786 |
| | | square/hexagon socket 7/8 mm | 13784 |
| | | profile cylinder 17 mm $\binom{11}{16}$ ") | 13999 |
| | One-bolt safety lock with bottom guide pin | round cylinder 22 mm ($\frac{7}{8}$ ") | 14000 |
| | | square/hexagon socket 7/8 mm | 14076 |
| | Bar bolt lock, with retention pin, stainless steel WNR 1.4301/AISI 304 | profile cylinder 17 mm (11) | 21225 |
| | Thumbturn, chromium fin with square pin 7 x 25 m | | 13789 |
| | Security rose 12 mm ($\frac{15}{32}$) cylinder 17 mm ($\frac{11}{16}$ "), chro | , for profile omium-nickel steel | 14147 |
| 0 | Floor-mounted sleeve with oblong hole and chromium-plated brass spring | | |
| | Rosette for floor-mounte | 17326 | |
| | Strike plate, chromium-p | lated steel | 13130 |

Protective transparent edge trims

| | | glass | mm/inch | code |
|--|--|-----------------|---|-------|
| | | 10 mm | 3000 (9'10 1 ") | 13822 |
| | | (13") | 6000 (19'8 ⁷ / ₃₂ ") | 13600 |
| | Protective | 12 mm | 3000 (9'10 1 ") | 13908 |
| | transparent edge profile, plastic | (15") | 6000 (19'8 ⁷ / ₃₂ ") | 13907 |
| | | 12,7 mm (½") | 3000 (9'10 ½") | 13912 |
| | | | 6000 (19'8 ⁷ / ₃₂ ") | 13911 |
| | Rubber profile self-adhesive, for 8/10 mm | black | 5 m (16'4 ²⁷ ") | 19442 |
| | | | 10 m (32'9 ²³ / ₃₂ ") | 19443 |
| | | | 50 m (164'½") | 19444 |
| | $\left(\frac{5}{16}"/\frac{13}{32}"\right)$ glass thickness, | | 5 m (16'4 ²⁷ ") | 19445 |
| | glass distance 4 mm (52), roll of | translucent | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| | 7 11111 (32), 1011 01 | | 50 m (164'½") | 19447 |

Brush seals

| | | | code |
|----|--|---|-------|
| | Double-sided adhesive tape for protective edge trim, transparent | roll of 50 m (164'½") | 13988 |
| // | Prugh and 2 6/19 mm (1"/23") | 920 mm (3' ⁷ / ₃₂ ") | 16797 |
| | Brush seal 2,6/18 mm (\frac{1}{8}"/\frac{22"}{32"}) | 1200 mm (3'11 ¹ / ₄ ") | 13791 |

¹fully tempered monolithic glass

² fully tempered laminated glass

Components for sliding door

| | | | code |
|---|---|-------------------------------|-------|
| | Single-wheeled trolley, M14, tyred wheel and suspension published doors up to 100 kg [2] | olate | 13778 |
| | Two-wheeled trolley, M14, wi tyred wheels and suspension (sliding doors up to 150 kg [3 | plate | 13818 |
| | Guide, rattle proof, with plast 13 mm (17) and suspension b | | 13781 |
| | Centering piece, single unit, alu plain anodized | | 19818 |
| | Centering assembly 0-18° | | 16629 |
| | Centering assembly 15–90° | complete | 17599 |
| | Centering assembly 15–90° complete (straight profile) | | 23516 |
| | Centering assembly with pivo | Centering assembly with pivot | |
| - | Cover cap, incl. fixing screw | black | 19903 |
| | Cover cap, incl. fixing screw (for straight profile) | black | 23470 |
| | Cover cap for 230 mm (9 ½") tall profile | black | 19884 |
| | Cover cap for 230 mm (9 1.8) tall profile, matches floor locking lever and centering assembly | black | 19885 |
| | Suspension profile cover cap, plastic | black | 13585 |
| | Glass suspension profile cover cap, plastic | black | 13586 |
| | Glass suspension profile cover cap, plastic (for straight profile) | black | 23437 |
| | Cover cap complete for door performing change in direction | black | 13587 |
| | Cover cap complete for door performing change in direction (for straight profile) | black | 23471 |
| | Cover cap for 230 mm (9 ½ lb | black | 19886 |

Components for sliding door

| | | | code |
|-----------|--|------------------|-------|
| | Deadbolt lock 13 mm $(\frac{17^n}{82})$, with guide pin, galvanized steel | | 14171 |
| | Doodholk look | galvanized steel | 14087 |
| | Deadbolt lock | inox | 17130 |
| 20 | Thumbturn, chromium finish with square pin 7 x 25 mm (| | 13789 |
| | Floor locking lever | | 19820 |
| | Floor locking lever 0 –18° | | 19822 |
| | Bottom locking device 18 – 90°, left, lateral operation (HAC) | | 20608 |
| | Bottom locking device 18 – 90°, right, lateral operation (HAC) | | 20609 |
| J's | Fork spanner SW 17/8/13 for trolley 70 kg (154 lbs.) | | 15459 |
| 6/ | Fork spanner SW 22/12/13 trolley 100-150 kg (220-3 | | 15409 |
| 6 | Wrench, hexagon 5 mm $(\frac{7}{32}")$ SW 11 mm $(\frac{7}{16}")$ | , | 17110 |

Components for pivot door

| Components for pive | | | code |
|---------------------|---|--|-------|
| | Servicing unit, dismountable, pivot fixing | 100 mm (3 ½"), | 15380 |
| | Top pivot, without track eleme | ent | 16196 |
| | Carrier, adjustable vertically, | for pivot door | 16325 |
| | Thrust bearing, adjustable (with bottom guide channel) | | 22299 |
| | Thrust bearing sleeve, Ø 30 r for pivot door | mm (1 ³ / ₁₆ "), | 16326 |
| | Pivot door catch complete | | 17897 |
| | Exterior pivot bearing | | 16798 |
| | Cover cap, incl. fixing screw | black | 19903 |
| | Cover cap, incl. fixing screw (for straight profile) | black | 23470 |
| | Suspension profile cover cap, plastic | black | 13585 |
| | Glass suspension profile cover cap, plastic | black | 13586 |
| | Glass suspension profile cover cap, plastic (for straight profile) | black | 23437 |
| | Cover cap complete for door performing change in direction | black | 13587 |
| | Cover cap complete for door performing change in direction (for straight profile) | black | 23471 |

Components for swing door

| | | code |
|---|----------------|-------|
| Servicing unit, dismountable, pivot fixing | 100 mm (3 ½"), | 15380 |
| Top pivot, without track eleme | ent | 16196 |
| Driver for swing door with commercial bottom door close | er | 13276 |
| Cover cap, incl. fixing screw | black | 19903 |
| Cover cap, incl. fixing screw (for straight profile) | black | 23470 |
| Suspension profile cover cap, plastic | black | 13585 |
| Glass suspension profile cover cap, plastic | black | 13586 |
| Glass suspension profile cover cap, plastic (for straight profile) | black | 23437 |
| Cover cap complete for door performing change in direction | black | 13587 |
| Cover cap complete for door performing change in direction (for straight profile) | black | 23471 |

Components for sliding pivot door

| J | | code |
|---|------------------------|-------|
| Two-wheeled trolley, M14, wi tyred wheels and suspension (sliding pivot doors up to 90 l and 3000 mm [9'10 1 8"] heigh | plate kg [198 lbs.] | 13821 |
| Holding device | | 15398 |
| Stop plate | | 15429 |
| Suspension profile 1100 mm with cutout, alu unanodized | $(3'7\frac{5}{16}"),$ | 13868 |
| Glass suspension profile | left | 13861 |
| 1100 mm (3'7 $\frac{5}{16}$ "), with cutout, alu unanodized | right | 13862 |
| Look complete | left | 13823 |
| Lock complete | right | 13824 |
| Pivot bearing, galvanized stee | 91 | 13827 |
| Cover cap, incl. fixing screw black | | 19903 |
| Cover cap, incl. fixing screw (for straight profile) black | | 23470 |
| Suspension profile cover cap, plastic (top) | black | 14211 |
| Suspension profile cover cap, plastic (bottom) | black | 13585 |
| Glass suspension profile cover cap, plastic | black | 13586 |
| Glass suspension profile cover cap, plastic (for straight profile) | black | 23437 |
| Deadbolt lock | galvanized steel | 14087 |
| Dodubult look | inox | 17130 |
| Strike plate, chromium-plated | l steel | 14088 |
| Hexagon key with plastic T-ha 8/80 mm $(\frac{5}{16}"/3\frac{5}{32}")$ | andle, | 13894 |
| Short connecting rod for door height up to 2500 mm (8'2 $\frac{7}{16}$ ") | | 14164 |
| Long connecting rod for door height over 2500 mm (8'27") | | 14165 |
| Surface-mounted top door clo 3000V with slide rail TS 5000 | | 15515 |

Components for sliding pivot door

| | | code |
|-------|--|-------|
| | Limit stop and baseplate to surface-mounted top door closer | 15457 |
| (in | Limit stop and baseplate to surface mounted top door closer (for straight profile) | 24470 |
| | Limit stop to surface-mounted top door closer | 15451 |
| & BIO | Locking unit for surface-mounted top door closer | 15516 |
| | Opening limiter for mounted top door closer | 15517 |
| | Instruction | 14074 |

Components for sliding swing door

| ing swing door | | code |
|--|------------------------|-------|
| Single-wheeled trolley, M14, tyred wheels and suspension (sliding swing doors up to 90 and 3000 mm [9'10 1/8"] heigh | plate kg [198 lbs.] | 13820 |
| Holding device | | 15398 |
| Stop plate | | 15429 |
| Suspension profile 1100 mm with cutout, alu unanodized | $(3'7\frac{5}{16}"),$ | 13868 |
| Suspension profile 1100 mm with cutout, alu plain anodize | | 21837 |
| Glass suspension profile | left | 13861 |
| 1100 mm (3'7 $\frac{5}{16}$ "), with cutout, alu unanodized | right | 13862 |
| Glass suspension profile, 1100 mm (3'7 $\frac{5}{16}$ "), with | left | 21838 |
| cutout, alu plain anodized, brushed | right | 21839 |
| Glass suspension profile 1100 mm (3'7 $\frac{5}{16}$ "), with | left | 23505 |
| cutout, alu unanodized (straight profile) | right | 23506 |
| Glass suspension profile, 1100 mm (3'7 $\frac{5}{16}$ "), with | left | 23507 |
| cutout, alu plain anodized, brushed (straight profile) | right | 23508 |
| Glass suspension/retainer | left | 13872 |
| profile 1100 mm (3'7 $\frac{5}{16}$ ") with cutout, alu unanodized | right | 13873 |
| Glass suspension/retainer profile 1100 mm (3'7 $\frac{5}{16}$ ") | left | 21840 |
| with cutout, alu plain anodized, brushed | right | 21841 |
| Glass suspension/retainer profile 1100 mm (3'7 $\frac{5}{16}$ ") | left | 23480 |
| with cutout, alu unanodized (straight profile) | right | 23481 |
| Glass suspension/retainer profile 1100 mm (3'7 $\frac{5}{16}$ ") with cutout, alu plain | left | 23478 |
| anodized, brushed (straight profile) | right | 23479 |
| Lock complete, | left | 13823 |
| for sliding swing door | right | 13824 |
| Pivot bearing, galvanized stee | | 13827 |
| Cover cap, incl. fixing screw | black | 19903 |
| Cover cap, incl. fixing screw (for straight profile) | black | 23470 |
| Suspension profile cover cap, plastic (top) black | | 14211 |
| Suspension profile cover cap, plastic (bottom) | black | 13585 |

Components for sliding swing door

| | | code |
|---|--|-------|
| Glass suspension profile cover cap, plastic | black | 13586 |
| Glass suspension profile cover cap, plastic (for straight profile) | black | 23437 |
| Coupling mechanism to floor galvanized steel | door closer, | 13825 |
| | Floor door closer GEZE TS 520 with special axis for sliding swing door | |
| Cover plate to floor door closer, chrome-nickel steel | | 13799 |
| Adapter for DORMA floor door closer | | 14178 |
| Connecting handle 8 mm $(\frac{5}{16}")$ | | 15659 |
| Short connecting rod for door height up to 2500 mm (8'2 $\frac{7}{16}$ ") | | 14164 |
| Long connecting rod for door over 2500 mm (8'2 = ") | height | 14165 |
| Instruction | | 14074 |

Profile processing

| | | left | recht |
|--|---|-------|-------|
| Outside for a fate land, for double suffering | 17 mm (11/16") | 17987 | 17988 |
| Cutout for safety lock, for double cylinder | 22 mm (⁷ / ₈ ") | 17989 | 17990 |
| Cutout for safety lock, for double cylinder | 17 mm (11/16") | 23482 | 23483 |
| (straight profile) | 22 mm (7/8") | 23484 | 23485 |
| | 17 mm (11/16") | 17993 | 17994 |
| Cutout for safety lock, for single cylinder | 22 mm (⁷ / ₈ ") | 17995 | 17996 |
| Cutout for safety lock, for single cylinder | 17 mm (11/16") | 23486 | 23487 |
| (straight profile) | 22 mm (⁷ / ₈ ") | 23488 | 23489 |
| Cutout for safety lock, square/hexagon socket | ı | 17991 | 17992 |
| Cutout for safety lock, square/hexagon socket (straight profile) | | 23490 | 23491 |
| Cutout for deadbolt lock for sliding pivot door | | 14085 | 14086 |
| Cutout for deadbolt lock for sliding pivot door (straight profile) | | 23492 | 23493 |
| Cutout deadbolt lock with guide pin | | 14186 | 14187 |
| Cutout deadbolt lock with guide pin (straight profile) | | 23494 | 23495 |
| Cutout for deadbolt lock, for side fixing | | 17973 | 17974 |
| Cutout for deadbolt lock, for side fixing (straight profile) | | 23496 | 23497 |
| Cutout for coupling mechanism for sliding swing | g door | 14040 | 14041 |
| Cutout for coupling mechanism for sliding swing (straight profile) | g door | 23498 | 23499 |
| utout lock for glass suspension profile SDT/SPT | | 14042 | 14043 |
| Cutout lock for glass suspension profile SDT/SP (straight profile) | | | 23510 |
| Cutout for bottom locking device, lateral operati | or bottom locking device, lateral operation | | 20725 |
| Cutout for TGP, external pivot, opening inwards | | 16709 | 16710 |
| Cutout for TGP, external pivot, opening inwards (straight profile) | | 23500 | 23501 |
| Cutout for dual running track, for external pivot, ope | ening inwards | 16713 | 16714 |
| Suspension profile processing for top door close | er | 15411 | 15416 |
| Retainer profile processing for top door closer | | 15412 | 15415 |
| Retainer profile processing for limit stop to surf- mounted top door closer, axis of rotation (straig | ht profile) | 23511 | 23512 |
| Retainer profile processing for surface mounted doorcloser (straight profile) | | 24475 | 24476 |
| Lock cutout incl. drilling for single cylinder 17 n | ` ' | 23150 | 23149 |
| Lock cutout incl. drilling for single cylinder 17 mm $\binom{11}{16}$ (straight profile) | | 23700 | 23699 |
| Lock cutout in glass suspension/retainer | 17 mm (11/16") | 19901 | 19902 |
| profile 230 mm (9 $\frac{1}{16}$ "), for double cylinder | 22 mm (⁷ / ₈ ") | 19017 | 19018 |
| Lock cutout in glass suspension/retainer profile 230 mm (9 $\frac{1}{16}$ "), for deadbolt lock | | 19019 | 19020 |
| Lock cutout incl. drilling for 17 mm (17) double cylinder | | 19615 | |
| Lock cutout incl. drilling for 17 mm $\binom{11}{16}$ double cylinder (straight profile) | | 23502 | |
| Cutout for holding device for running tracks with | n integrated c | over | 15421 |

Tools

| | | code |
|----|---|-------|
| | Fork spanner to glass holder insert | 13817 |
| | Installation tool for blocking keys $10-12,7 \text{ mm} \left(\frac{13}{32} - \frac{1}{2}\right)$ glass | 13710 |
| 13 | Fork spanner SW 17/8/13 for trolley 70 kg (154 lbs.) | 15459 |
| 4/ | Fork spanner SW 22/12/13 for trolley 100-150 kg (220-330 lbs.) | 15409 |
| | Wrench, hexagon 5 mm $(\frac{7}{50}")$, SW 11 mm $(\frac{7}{16}")$ | 17110 |

Surface treatments

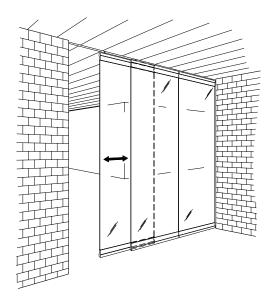
| | code |
|--|-------|
| Basic treatment fee to surface treatment, lump sum per colour | 16741 |
| Powdercoated to RAL tone No. | 14163 |
| Plain anodized, polished, brushed | 14626 |
| Stainless-steel effect, hard anodized, brushed, polished, mat finish | 14378 |
| Stainless-steel effect, nickel plated, brushed, mirror finish | 14631 |
| Chrome mirror finish | 14630 |

Services

| | code |
|---|-------|
| Bending and assembly of dual running track with special radius HAWA-Variotec | 17294 |
| Bending of running tracks and bottom guide channels for HAWA-Variotec special curved segments | 16041 |
| Machine set-up time for each profile | 16040 |
| Curving and preparing all special radii, per track | 16038 |
| Preliminary mounting parking area | 15653 |
| Additional packing share for each Variotec/Combitec parking area | 15654 |
| Project processing/CAD planning, per hour | 14035 |
| Installation assistance per day, without expenses, net | 17111 |
| Installation assistance per hour, without expenses, net | 17112 |

Stationary glass HAWA-Fixed Glass

You can combine fixed glass designs and sliding doors to form a harmonious unit using our supplementary HAWA-Fixed Glass hardware components. In this way you can ensure the best possible prerequisites for providing a uniform complete solution.



Stationary glass HAWA-Fixed Glass

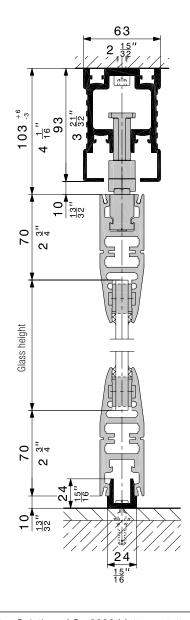
| | | | code |
|--|--|--|-------|
| Top fixing plate set for fixed glass, with hanger bolt M12, HAWA-Variotec 150/GV | | 14688 | |
| Retainer device for fixed glass with dual running track | | 15803 | |
| alu plai | Bottom profile, alu plain anodized, | 6000 mm (19'8 ⁷ / ₃₂ ") | 14691 |
| | undrilled | cut to size | 14692 |

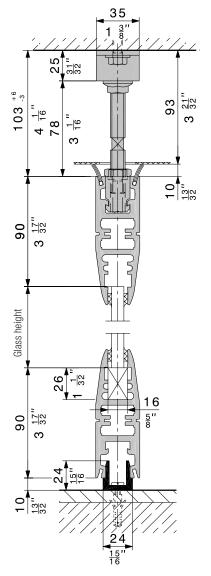
Order specifications for HAWA-Fixed Glass

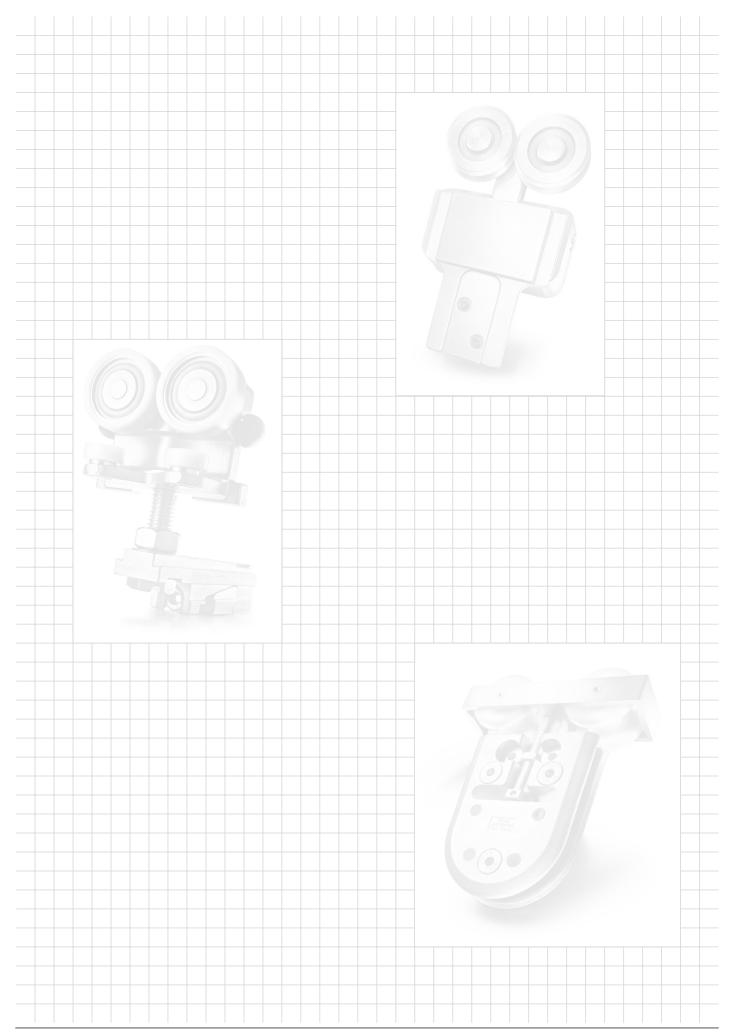
- Number and type of top-fixing plate sets
- Length of bottom profile

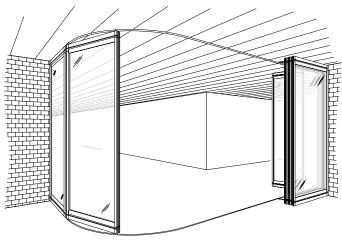
Planning/installation

For planning and installation purposes, please use the installation drawing code 15805. (→ www.hawa.ch → HAWA-Productfinder)

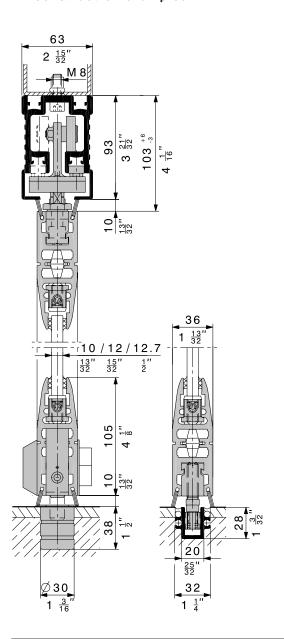








Construction examples



Frame profile for all-glass sliding walls up to 150 kg (330 lbs.) panel weight. Suitable for HAWA-Variotec 150/GV.

Description

This aesthetic frame profile with just 24 mm (15°) visible width offers enhanced security and rigidity for tall glass structures. The profile reduces glass bowing, makes it difficult to force open tall doors and protects the glass edges. Integrated horizontal brush seals combined with a vertical rubber seal protect against draughts and facilitate effective isolation of air-conditioned rooms or unheated conservatories by limiting the air volume.

Applications

Anywhere that requires enhanced security and rigidity, plus draught-proofing of tall glass constructions, e.g. unheated conservatories, shopping centres, restaurants, banks, airports, stations or office premises.

Features of the HAWA-Variotec 150/GR frame profile

- Modular system
- Filigree frame system with just 24 mm (15") visible width
- Changes in direction between 16° and 90° are possible
- Maximum panel weight 150 kg (330 lbs.)
- Recommended maximum panel height 3500 mm (11'5 13")
- No glass cut-outs required
- · Protects against draughts
- Enhanced rigidity for tall glass structures
- All hardware built-in to the profile
- · Secure locking
- Combinable with HAWA-Motus 150/GV-matic

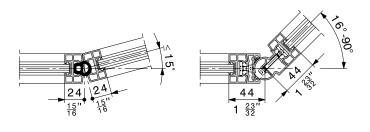
Glass thickness

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

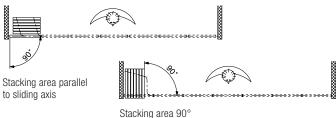
- Glass thickness sliding door ESG (fully tempered monolithic glass): 10/12/12,7 mm $(\frac{13}{32})/\frac{15}{2}(\frac{1}{2})$, thickness tolerance \pm 0,3 mm
- Glass thickness sliding door VSG (fully tempered laminated glass): up to 13 mm (^{17"}/_{20"})
- All glass edges are seamed

Changes of direction

Thanks to customizable changes of direction and an option for installations with curved rails, virtually any floor plan layout is possible.



Stacking areas



to sliding axis

Profiles for HAWA-Variotec 150/GR frame profile

| | ariotec 150/GR frame pi | | code |
|---|---|--|-------|
| | Vertical profile, alu | 6500 mm (21'3 🕸") | 17730 |
| | unanodized | cut to size | 17731 |
| a | Vertical profile No. 1, | 6500 mm (21'3 🕸") | 17724 |
| | alu unanodized, for change in direction | cut to size | 17725 |
| | Vertical profile No. 2, alu unanodized, | 6500 mm (21'3 ²⁹ ") | 17727 |
| | for change in direction | cut to size | 17728 |
| | Stop profile, | 6500 mm (21'3 😤") | 17760 |
| | alu unanodized | cut to size | 17761 |
| | Wall-mounting profile, | 6500 mm (21'3 😤") | 17739 |
| | alu unanodized | cut to size | 17741 |
| | Cover profile, | 6500 mm (21'3 🕸") | 17950 |
| | alu unanodized | cut to size | 17951 |
| | Cover profile for pivot door, alu unanodized | 6500 mm (21'3 🕸") | 17948 |
| | | cut to size | 17949 |
| | Set of fixing parts, set for 1 door | | 18287 |
| | Set of fixing parts, for changes in direction for vertical profile No.1, set of 4 pieces | | 17962 |
| S | Set of fixing parts, for changes in direction for vertical profile No. 2, set of 4 pieces | | 17961 |
| | Rubber for vertical profile, black | 20 m (65'7 ½") | 17733 |
| | Rubber for vertical profile No. 2, black | 5 m (16'4 ²⁷ / ₃₂ ") | 17768 |
| | Rubber profile for pivot door stop profile, black | 5 m (16'4 ²⁷ / ₃₂ ") | 17766 |
| | Cover cap, black | | 17776 |
| ÛÛ | Set of cover caps for 1 pivot door, black | | 18048 |
| Screws for cover cap fixing, set of 50 pieces (for 5 doors) | | 18012 | |

| | Fixing part for cover caps | | 17858 |
|---|---|--|-------|
| | Centering clamps for glass, set of 50 pieces | 10 mm (13/32") | 18013 |
| | | 12 mm (¹⁵ / ₃₂ ") | 18014 |
| | | 12,7 mm (½") | 18015 |
| | Cover cap retention piece for deadbolt lock and safety lock | | 17921 |
| Deadbolt lock 13 mm $(\frac{17}{32})$, for frontal mounting | | 17917 | |
| | Deadbolt lock 13 mm ($\frac{17''}{32}$), for frontal mounting, stainless steel WNR. 1.4301/AISI 304 | | 18001 |
| Deadbolt lock 13 mm (⅓"), with guide pin for frontal mounting | | 17964 | |

Services for HAWA-Variotec 150/GR frame profile

| | code |
|---|-------|
| Bottom and top drillings for vertical profile | 18314 |
| Bottom and top drillings for stop profile | 18315 |
| Drillings for vertical profile No. 1 | 18316 |
| Drillings for vertical profile No. 2 | 18317 |

| | | left | right |
|---|--|-------|-------|
| Cutout for safety lock, for double cylinder | 17 mm (11/16) | 17987 | 17988 |
| | 22 mm (7/8") | 17989 | 17990 |
| Cutout for safety lock, for single cylinder | 17 mm (11/16) | 17993 | 17994 |
| | 22 mm (⁷ / ₈ ") | 17995 | 17996 |
| Cutout for safety lock, square/hexagon socket | | 17991 | 17992 |
| Cutout for deadbolt lock, for side fixing | | 17973 | 17974 |

Automatic installations

HAWA-Variotec 150/GR frame profile and HAWA-Motus 150/GV-matic are combinable in automatic installations. Advice and assembly by authorised fitters.

Order specifications

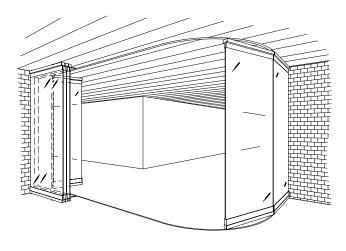
- Length and height of the overall glass frontage (LMB)
- Type of stacking area
- Floor plan drawing, scale 1:50 (as DXF file where possible)

Planning/installation

For planning and installation purposes, please use the installation drawing code 18199. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

Please refer to the following documentation for planning and installation of the bottom guide channels and running tracks:
Planning instructions Nr. 15806 HAWA-Variotec 150/GV
Installation plan Nr. 15805 HAWA-Variotec 150/GV

H A W A -- Shopfront 103G/400 and 112G/400



106 4 3 16 ้ณ 9 +1 28 32 $\frac{1}{32}$ 2 က 50 94 $\frac{31}{32}$ 26 $1\frac{1}{32}$ $(8 - \overline{16)10}$ 13 32 10 (8-16) 26 92 rolω 137 32/3

Hardware system for heavyweight all-glass sliding doors and all-glass sliding walls weighing up to 400 kg (880 lbs.).

Description

The HAWA-Shopfront 103G/400 and 112G/400 are tried and tested hardware systems for heavyweight all-glass sliding wall installations. The first panel can be installed as a revolving door on the side that is opposite the stacking area. Depending on the given situation, it is also possible to install a revolving door close to the stacking area. The HAWA-Shopfront is able to meet requirements for up to 400 kg (880 lbs.) per all-glass sliding door, but can also be modified to handle other special wishes. If you need hardware systems for all-glass doors weighing less than 150 kg (330 lbs.), please ask us for further information.

Applications

These hardware systems are suitable for use wherever heavy-weight doors call for a high degree of quality and precision, e.g. in shopping centres, public buildings, industrial premises and the administrative sector

Features of the HAWA-Shopfront 400/G

- Two-wheeled trolley with steel wheels
- Stainless steel running tracks WNR 1.4301/AISI 304
- Minimum axis radius, 4000 mm (13'1½")
- Smooth and quiet operation
- Suitable for heavyweight all-glass sliding-wall installations
- · Minimal space requirement for stacking
- · Customized solutions

Glass thickness

• Glass thickness ESG (fully tempered monolithic glass): $8-16 \text{ mm} \left(\frac{5}{16} - \frac{5}{8}\right)$ For tall doors, we recommend glass thicknesses

ESG (fully tempered monolithic glass): $12-16 \text{ mm} \left(\frac{15}{32} - \frac{5}{8}\right)$.

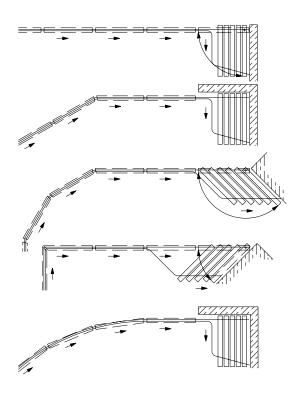
H A W A -- Shopfront 103G/400 and 112G/400

HAWA-Shopfront 103G/400

Sliding panels are stacked parallel to the closing plane.

HAWA-Shopfront 112G/400

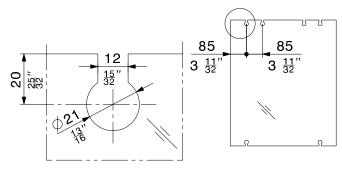
Sliding panels are stacked at an angle to the closing plane.



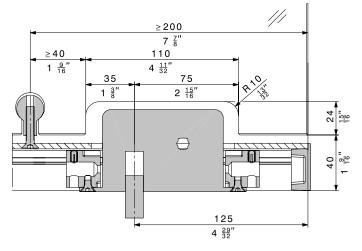
Glass cutouts

The glass ESG (fully tempered monolithic glass) must be provided with cutouts for installation of the glass holder inserts and the safety locks.

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



Glass cutout for glass holder



Glass cutout for safety locks

H A W A -- Shopfront 103G/400 and 112G/400

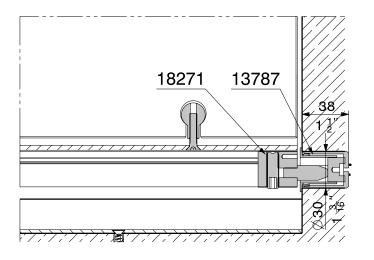
Running tracks

| | | code |
|--|-------------|-------|
| Dual running track, stainless steel WNR.1.4301/AISI 304, with mounting flanges | cut to size | 18038 |
| Single running track, stainless steel WNR.1.4301/AISI 304, with mounting flanges | cut to size | 18036 |

Glass suspension and retainer profiles

| | | mm/inch | code |
|---------------------|---|--------------------------------|-------|
| | Glass suspension and retainer | 6500 (21'3 😤") | 13155 |
| | profile, alu unanodized, undrilled, glass up to 16 mm $(\frac{5}{8}")$ | cut to size | 13156 |
| | Suspension profile, | 6500 (21'3 🚉") | 10332 |
| | alu unanodized, undrilled | cut to size | 13071 |
| | Cover cap for suspension profile 13155/13156/10332/13071, grey | | 10619 |
| | Glass suspension/retainer profile, alu plain anodized, brushed undrilled, glass up to 16 mm (5 ") Glass suspension/retainer profile, alu unanodized, | 6500 (21'3 ²⁹ ") | 21783 |
| | | cut to size | 21784 |
| | | 6500 (21'3 ²⁹ ") | 13158 |
| | undrilled, glass up to 16 mm ($\frac{5}{8}$ ") | cut to size | 13159 |
| | Cover cap for glass suspension/retainer profile 21783/21784/13158/13159, plastic anthracite-grey RAL 7016 | | 21085 |
| Suspension profile, | | 6500 (21'3 32") | 10345 |
| | alu plain anodized, undrilled | cut to size | 12915 |
| | Cover cap for suspension profile, plastic anthracite-grey RAL 7016 | | 20907 |

Wall connection



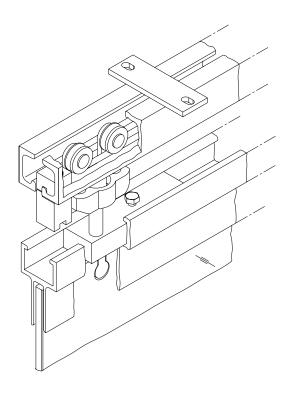
Bottom guide channels

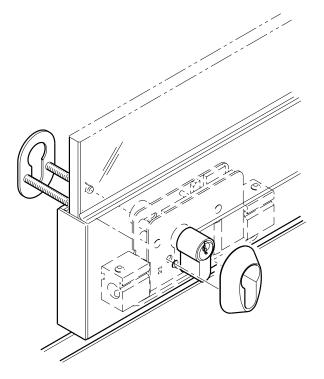
| Caution: Hole positions | s vary | mm/inch | code |
|-------------------------|--|--|-------|
| | Bottom guide channel, | 6000 (19'8 ⁷ / ₃₂ ") | 10245 |
| | brass, predrilled, $20 \times 28 \times 3 \text{ mm} \left(\frac{25}{32} \times 1\frac{1}{8} \times \frac{1}{8} \right)$ | cut to size | 10247 |

Accessories

| Accessories | | |
|-------------|---|-------|
| | | code |
| | Welding jig for dual running track, steel | 10794 |
| | Track stop, galvanized steel | 10595 |
| | Two-wheeled trolley, steel wheels and hanger bolt M14 | 10366 |
| | Suspension plate M14, with fixing screws, galvanized steel | 10449 |
| | Glass holder insert, plastic with screw M6 x 30 mm | 10792 |
| | Pivot assembly, complete | 10703 |
| | Driver, vertically adjustable, for pivot door | 16325 |
| | Thrust bearing, adjustable, Inox, for fitting into bottom guide channel | 22299 |
| | Thrust bearing sleeve, Ø 30 mm ($1\frac{3}{16}$ "), for pivot door | 16326 |
| | Guide, rattle proof, plastic, 14 mm (9 to 15 to 15), with suspension block | 13781 |
| | Centering assembly, complete | 10556 |
| | Centering assembly with pivot | 18271 |
| | 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 |
| | Thumbturn, dull chromium finish, with square pin 7 x 20 mm (\frac{9}{20}" x \frac{25}{20}") | 12620 |
| al fra | Fork spanner SW 22/12, pivot door vertical adjustment | 15409 |

H A W A -- Shopfront 103G/400 and 112G/400





Integrated locks

| | | | code |
|------|--|------------------------------------|-------|
| | | profile cylinder 17 mm (11/16") | 16760 |
| | Bar bolt lock, with retention pin | round cylinder 22 mm (7/8") | 16761 |
| | | square/hexagon socket | 16762 |
| | Bar bolt lock, with guide pin and fixing parts | profile cylinder 17 mm (11/16") | 18484 |
| | | round cylinder 22 mm (7 ") | 18485 |
| | | square/hexagon socket | 18486 |
| | Security rose 16 mm ($\frac{5}{6}$ "), for double cylinder 17/61 mm ($\frac{11}{16}$ "/2 $\frac{13}{82}$ "), chrome nickel steel | | 18502 |
| G (I | Spacer for security rose | profile cylinder 17 mm (11/16") | 18493 |
| | | round cylinder 22 mm (7/8") | 18494 |

Cutouts

| | code |
|--|-------|
| Cutout, bar bolt lock for 17 mm $(\frac{11}{16})$, for double cylinder | 18489 |
| Cutout left, bar bolt lock for 17 mm $(\frac{11}{16})$, for single cylinder | 21331 |
| Cutout right, bar bolt lock for 17 mm ($\frac{11}{16}$), for single cylinder | 21332 |
| Cutout, bar bolt lock for 22 mm $(\frac{7}{8})$, for double cylinder | 18490 |
| Cutout left, bar bolt lock for 22 mm $(\frac{7}{8}")$, for single cylinder | 21333 |
| Cutout right, bar bolt lock for 22 mm $(\frac{7}{8})$, for single cylinder | 21334 |
| Cutout, bar bolt lock, left, square/hexagon socket | 18492 |
| Cutout, bar bolt lock, right, square/hexagon socket | 18491 |

Services

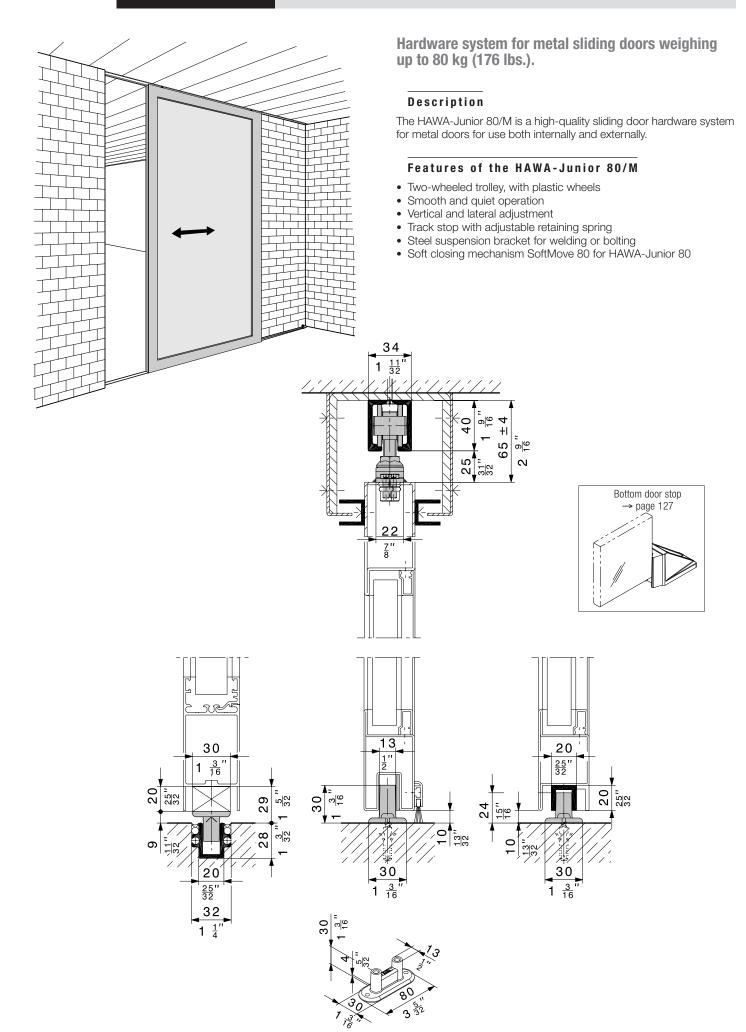
We will provide the following services at extra cost (prices on request): project processing, bending and shaping running tracks and bottom guide channels, countersinking for lock assembly and cylinder, plus surface treatments.

Better safe than sorry

An integrated bar bolt lock compatible with the 17 mm $(\frac{11}{16}")$ profile cylinder, 22 mm $(\frac{7}{16}")$ round cylinder and square/hexagon socket is available for securing all-glass sliding doors.

Planning/installation

For planning and execution please order the installation drawings code 12409 HAWA-Shopfront 400/G – parallel and code 12410 HAWA-Shopfront 400/G – 90°. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)



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

Set for single door

| | code |
|---|-------|
| HAWA-Junior 80/M | 25688 |
| For two-panel sliding doors please order two sets for single doors. | |

Partial set comprising

| | | pieces | code |
|---|---|--------|-------|
| | Two-wheeled trolley, M10, with plastic wheels | 2 | 10407 |
| | Top-fixing plate, galvanized steel, with hanger bolt M10 and fixation screw | 2 | 14487 |
| | Track stop, adjustable retaining force | 2 | 24497 |
| • | Screw-on rubber door stop | 1 | 10629 |
| | Floor-mounted guide, plastic (the height can be shortened by the customers) | 1 | 10509 |

Running tracks

| Caution: Hole position: | s vary | mm/inch | code |
|-------------------------|--|--|-------|
| | | 1400 (4'7 ¹ / ₈ ") | 10189 |
| | | 1600 (5'3") | 10190 |
| | | 1800 (5'10 ⁷ / ₈ ") | 10191 |
| /*°/ | Running track, alu plain anodized, predrilled | 2000 (6'63") | 10192 |
| | | 2200 (7'2 ⁵ / ₈ ") | 10193 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 10194 |
| | | 3000 (9'10 18") | 18532 |
| | | 4000 (13'1½") | 18533 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 10186 |
| | | cut to size | 10188 |

Cover cap to running track

| | code |
|--|-------|
| Cover cap for running track, metal, suitable to both sides, dull, chromium finish, 1 piece | 24956 |

Bottom guide channels

| Caution: Hole positions vary | | mm/inch | code |
|---|---|--|-------|
| Bottom guide channel, alu plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 14414 | |
| | predrilled 20 x 20 x 3 mm | cut to size | 14415 |
| | alu plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 13688 |
| | | cut to size | 13690 |
| | Connecting bolt, Ø 6 x 40 mm (1/4" x 1199") | | 13759 |

Assessories

| | | code |
|--|---------------------------|-------|
| Bottom door stop with centering assembly | dull chromium finish | 20773 |
| with centering assembly | stainless steel effect | 21473 |

SoftMove 80 soft closing mechanism for Hawa-Junior 80

| | | code |
|------|--|-------|
| J J. | SoftMove 80 soft closing mechanism for Hawa-Junior 80 (details:→ page 120) | 22444 |

Accessories

Accessories: → pages 120-129

Order specifications

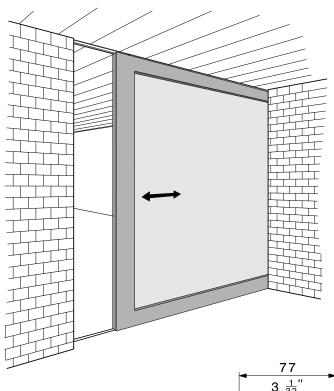
- · Quantity of sets
- Running track length
- Type and length of bottom guide channel
- Door width and door height

Metal sliding doors of up to 120/160 kg $(264/352 \; lbs.)$

Metal sliding doors over 80 kg (176 lbs.) can be implemented with HAWA-Junior 120/A and HAWA-Junior 160/A.

Planning/installation

For planning and installation purposes, please use the installation drawing code 18182. (→ www.hawa.ch → HAWA-Productfinder)



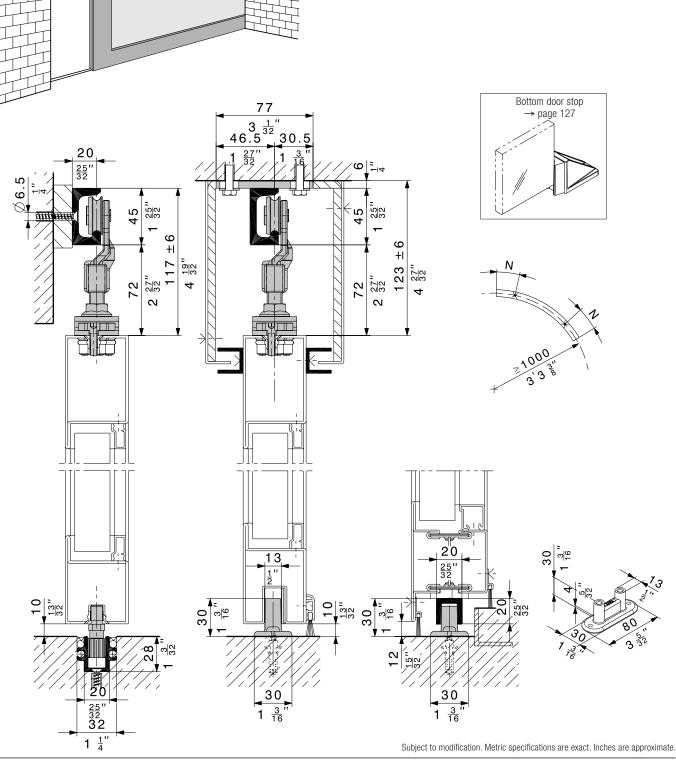
Hardware system for heavy weight metal sliding doors up to 250 kg (550 lbs.). Suitable for use with sliding fire doors.

Description

HAWA-Super 250/M proven over the years for heavy metal doors. Very well suited for fire-retarding applications.

Features of the HAWA-Super 250/M

- Trolley with ball-bearing steel wheels
- Simple to installation
- Minimum axis radius, 1000 mm (3'3 $\frac{3}{8}$ ")
- Robust design
- Suitable for use with sliding fire doors
- Steel top bracket for bolting



A -- Super 250/M

Running tracks

| Caution: Hole position | mm/inch | code | | |
|------------------------|--|------------------|---|-------|
| | Single running track, stainless steel WNR | side- | 6000 (19'8 ⁷ / ₃₂ ") | 18033 |
| | stainless steel WNR 1.4301/AISI 304 | | cut to size | 18034 |
| | Single running track, stainless steel WNR | top- mounting | 6000 (19'8 ⁷ / ₃₂ ") | 18035 |
| | 1.4301/AISI 304 | flanges | cut to size | 18036 |

Bottom guide channels

| Caution: Hole position: | mm/inch | code | | |
|-------------------------|---|---|-------|--|
| | Bottom guide channel, alu plain anodized, | | | |
| | predrilled, 20 x 20 mm (35" x 25") | cut to size | 14415 | |
| | Bottom guide channel, alu plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 13688 | |
| | predrilled, 31 x 28 mm $(1\frac{7}{32}$ " x $1\frac{1}{8}$ ") | cut to size | 13690 | |
| | Connecting bolt, Ø 6 x 40 mm (1/4" | 13759 | | |

Accessories

| | | | code | |
|---|--|---------------------------|-------|--|
| | Two-wheeled trolley, M12, v | vith steel wheels | 13495 | |
| | Top-fixing plate, galvanized with hanger bolt M12, and f | , | 14489 | |
| | Track stop, galvanized steel to be drilled into the track | 10595 | | |
| | Screw-on rubber door stop | 13114 | | |
| | Guide plastic 14 mm ($\frac{9}{16}$ ") wi | 14474 | | |
| | Floor-mounted guide, plastic be shortened by the custom | 10509 | | |
| | Bottom door stop | dull chromium finish | 20773 | |
| Щ | with centering assembly | stainless steel effect | 21473 | |

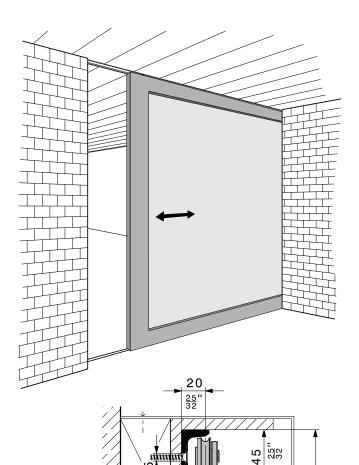
Order specifications

- Quantity of trolleysQuantity of top-fixing plates
- Quantity of track stops
- Type and length of running track
- Type and length of bottom guide channel
- Quantity and type of floor-mounted guide
- Width and height of door

Planning/installation

For planning and installation purposes, please use the installation drawing code 14586. (→ www.hawa.ch → HAWA-Productfinder)

A -- Super 500/M



Hardware system for heavyweight metal sliding doors up to 500 kg (1100 lbs.). Suitable for use with sliding fire doors.

Description

 $\ensuremath{\mathsf{HAWA}}\xspace\text{-}\xspace Super 500/M$ proven over the years for heavy metal doors. Very well suited for fire-retarding applications.

Features of the HAWA-Super 500/M

- Trolley with ball-bearing steel wheelsSimple to installation
- Robust design

9 +I

23

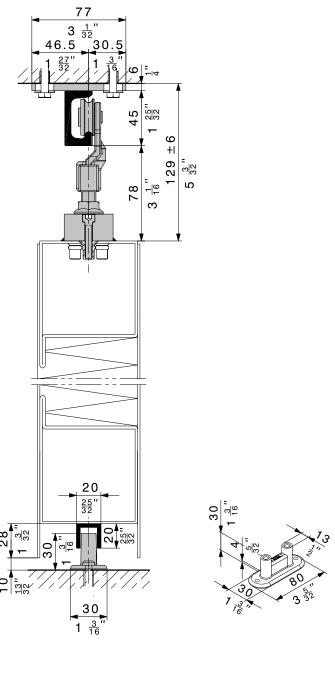
1-19

က

78

32 1 1/4" <u>27</u> 32

- Suitable for use with sliding fire doors
- Steel top bracket for bolting



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

A -- Super 500/M

Running tracks

| Caution: Hole position | mm/inch | code | | |
|--|--|------------------|---|-------|
| | Single running track, | side- | 6000 (19'8 ⁷ / ₃₂ ") | 18033 |
| stainless steel WNR 1.4301/AISI 304 | | drilled | cut to size | 18034 |
| | Single running track, stainless steel WNR | top- mounting | 6000 (19'8 ⁷ / ₃₂ ") | 18035 |
| | 1.4301/AISI 304 | flanges | cut to size | 18036 |

Bottom guide channels

| Caution: Hole position: | mm/inch | code | | |
|-------------------------|---|--|-------|--|
| | Bottom guide channel, alu plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 14414 | |
| | predrilled, 20 x 20 mm $\left(\frac{25}{32}^{"} \text{X } \frac{25}{32}^{"}\right)$ | cut to size | 14415 | |
| | Bottom guide channel, alu plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 13688 | |
| | predrilled, 31 x 28 mm $(1\frac{7}{32}$ " x $1\frac{1}{8}$ ") | cut to size | 13690 | |
| | Connecting bolt, Ø 6 x 40 mm (1/4" x 119/32") | | | |

Accessories

| | | code |
|--|---|-------|
| | Three-wheeled trolley, M12, with steel wheels | 10361 |
| | Suspension plate, galvanized steel, with suspension bolt M12 and fixing screw | 14480 |
| | Track stop, galvanized steel, to be drilled into the track | 10595 |
| A CONTRACTOR OF THE CONTRACTOR | Spring-loaded mortise-type door stop | 10591 |
| | Screw-on rubber door stop | 13114 |
| | Floor-mounted guide, plastic (the height can be shortened by the customers) | 10509 |
| | Guide plastic 14 mm (3") with bolt M10 | 14474 |

Order specifications

- Quantity of trolleys Quantity of suspension plates
- Quantity of track stops
- Type and length of running track
- Type and length of bottom guide channel
- Quantity and type of bottom guides
- Door width and door height

Planning/installation

For planning and installation purposes, please use the installation drawing code 14587. (→ www.hawa.ch → HAWA-Productfinder)



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

Description

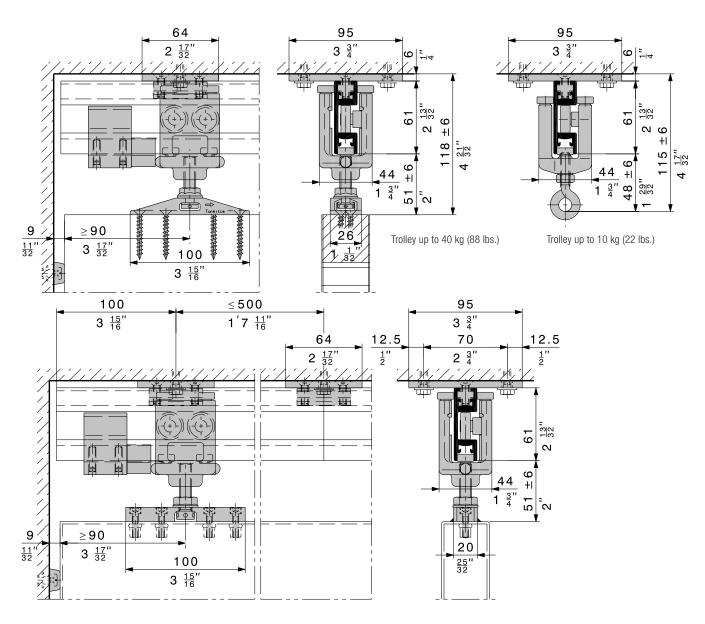
The HAWA-Varioflex 40/TS is a hardware system with outstanding cornering properties. The plug-in track system with straight sections and curved rails of 15, 30, 45, 60, 75 and 90 degrees permits complete freedom with regard to construction. Rail joints are linked simply and precisely by means of coupling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

Applications

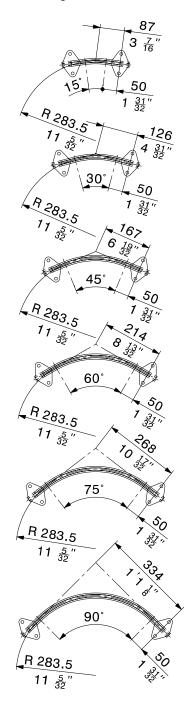
Map boards, projection walls, work stations with electrical cables and compressed air hoses. Storage and display of articles in shops, snowboards e.g.

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



Curve running tracks



Installation

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

Order specifications

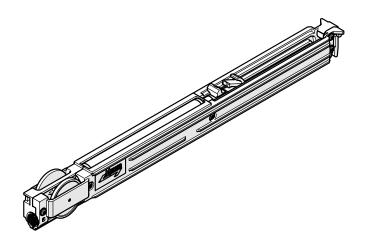
- Length of running track
- Quantity and type of curve running track
- Quantity of top-fixing plate
- Quantity of coupler to running track
- Quantity of running track cover cap sets
- Quantity and type of components

Running tracks

| | | | code | |
|----|--|--|-------|--|
| | Running track, alu plain anodized | 6000 mm (19'8 ⁷ / ₃₂ ") | 13975 | |
| | Thurming track, are plain anouized | cut to size | 14345 | |
| | | 15° | 15125 | |
| | | 30° | 15127 | |
| | Inner curve running track, | 45° | 15129 | |
| | alu plain anodized | 60° | 15131 | |
| 7, | | 75° | 15133 | |
| | | 90° | 14341 | |
| | | 15° | 15126 | |
| | | 30° | 15128 | |
| | Outer curve running track, | 45° | 15130 | |
| | alu plain anodized | 60° | 15132 | |
| M | | 75° | 15134 | |
| | | 90° | 15113 | |
| | Top-fixing plate, dull chromium-pl (for straight and standard curves) | ated steel | 14463 | |
| | Top-fixing plate, dull chromium-plated steel | | | |
| | Coupler to running track, galvanized steel | | | |
| | Set of running track cover caps, p left/right | lastic grey, | 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 (1192") | 15174 |
| 8 | Eye bolt with nut, galvanized steel, M8 x 30 mm $(1\frac{3}{16})$ | 15173 |
| | Bumper, alu plain anodized | 14368 |
| | Bumper door stop, to running track | 21010 |
| | Screw-on rubber door stop | 10629 |



SoftMove soft closing mechanism for Hawa-Junior

Description

The SoftMove 40-80-120 soft closing mechanism is an accessory for all HAWA-Junior 40-80-120 systems and therefore suitable for both wood and glass sliding doors. It can be installed on the opening or closing side. Completely integrated into the running track, the SoftMove gently decelerates sliding doors and draws them into their final position.

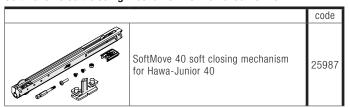
Features of the SoftMove 40-80-120 soft closing mechanism

- Utilisable with all Hawa-Junior systems within this weight class
- Quick and easy installation
- Continuous gentle deceleration and closing with no door spring-back
- High-class hydraulic damper
- Very user-friendly thanks to minimal noise development
- Invisibly integrated in the running track
- Long-lasting and maintenance-free materials
- For convenient operation of sliding doors with soft closing mechanisms, use D handles instead of shell handles

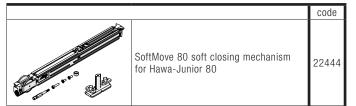
Note

In combination with the assembly set, the planning section of the assembly set and SoftMove soft closing mechanism installation instructions must be taken into consideration before ordering the running track.

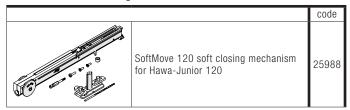
SoftMove 40 soft closing mechanism for Hawa-Junior 40

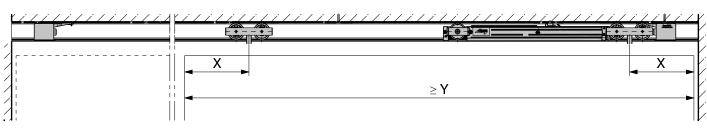


SoftMove 80 soft closing mechanism for Hawa-Junior 80

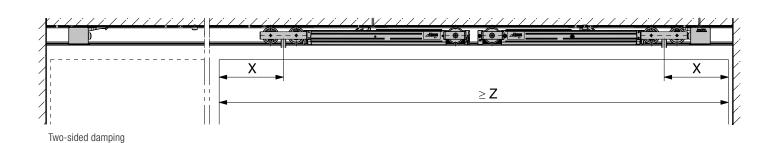


SoftMove 120 soft closing mechanism for Hawa-Junior 120





One-sided damping



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

Wood

| | SoftMove 4 | SoftMove 40 soft closing mechanism | | SoftMove 80 soft closing mechanism | | SoftMove 120 soft closing mechan | | mechanism | |
|-------------------------|------------|------------------------------------|-------|------------------------------------|-------|----------------------------------|-----|-----------|--------|
| | X | Υ | Z | X | Υ | Z | X | Υ | Z |
| HAWA-Junior 40 Z | 95 | ≥ 550 | ≥ 830 | | | | | | |
| HAWA-Junior 40 B | 95 | ≥ 550 | ≥ 830 | | | | | | |
| HAWA-Junior 80 Z | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 80 B mod. | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 80 B Pocket | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 120 A | | | | | | | 165 | ≥ 850 | ≥ 1150 |
| HAWA-Junior 120 B | | | | | | | 165 | ≥ 850 | ≥1150 |

Glass

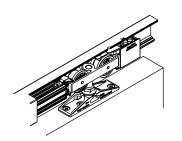
| | SoftMove 4 | SoftMove 40 soft closing mechanism | | SoftMove 80 soft closing mechanism | | SoftMove 1 | 20 soft closing | mechanism | |
|--------------------|------------|------------------------------------|-------|------------------------------------|-------|------------|-----------------|-----------|--------|
| | X | Υ | Z | X | Υ | Z | X | Y | Z |
| HAWA-Junior 40 GP | 95 | ≥ 550 | ≥ 830 | | | | | | |
| HAWA-Junior 40 GS | 95 | ≥ 550 | ≥ 830 | | | | | | |
| HAWA-Junior 40 GL | 95 | ≥ 550 | ≥ 830 | | | | | | |
| HAWA-Junior 80 GP | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 80 GS | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 80 G | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 80 M | | | | 130 | ≥ 690 | ≥ 1030 | | | |
| HAWA-Junior 120 GP | | | | | | | 165 | ≥ 850 | ≥ 1150 |
| HAWA-Junior 120 G | | | | | | | 165 | ≥ 850 | ≥ 1150 |

Set with SoftMove 80 soft closing mechanism for Hawa-Junior 80 for 1 sliding door, without running track

| | code |
|--|-------|
| Hawa-Junior 80/Z, set for 1 door, with 1 SoftMove 80 soft closing mechanism | 23087 |
| HAWA-Junior 80/Z, set for 1 door, with 2 SoftMove 80 soft closing mechanisms | 23088 |
| HAWA-Junior 80/GP, set for 1 door, with 1 SoftMove 80 soft closing mechanism | 23091 |
| HAWA-Junior 80/GP, set for 1 door, with 2 SoftMove 80 soft closing mechanisms | 23092 |

SoftMove 80 soft closing mechanism for Hawa-Junior 80

The soft closing mechanism is available as a stand-alone unit or as a component of a HAWA-Junior 80/Z or 80/GP set. Please also order a floor guide and cover caps for Hawa-Junior 80/GP systems. Details: → HAWA-Junior 40-80-120-160/GP.

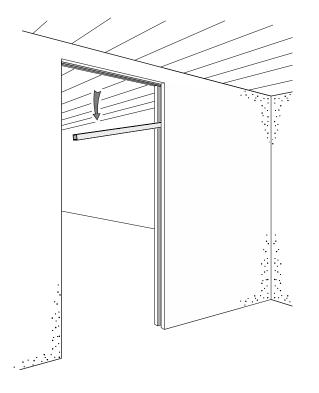


HAWA-Junior 80/Z HAWA-Junior 80/GP

Planning/installation

For planning and execution please order the installation drawings Nr. 25827 SoftMove 40 soft closing mechanism Nr. 22708 SoftMove 80 soft closing mechanism

Nr. 25852 SoftMove 120 soft closing mechanism (→ www.hawa.ch → HAWA-Productfinder)



Assembly set for Hawa-Junior 40 running track

| | code |
|--|-------|
| Set for mountable and demountable running track for 2000 (6'6 $\frac{3}{4}$ "), to HAWA-Junior 40 | 25990 |
| Set for mountable and demountable running track for 2500 (8'2 $\frac{7}{16}$ "), to HAWA-Junior 40 | 25992 |

Set comprising

| | | mm/inch | 25990 | 25992 | code |
|---------------------------------------|--|--|-------|-------|-------|
| Retainer profile with a bayonet lock, | 2000 (6'6 ³ / ₄ ") | 1 | _ | 25913 | |
| | alu plain anodized, | 2500 (8'2 ⁷ / ₁₆ ") | - | 1 | 25914 |
| | Small parts set to retainer profil, set of 6 pieces for lenght of running track | 2000 (6'6 ³ / ₄ ") | 1 | ı | 25989 |
| | Small parts set to retainer profil, set of 7 pieces for lenght of running track | 2500 (8'2 ⁷ / ₁₆ ") | _ | 1 | 25991 |

Suitable for:

Wood HAWA-Junior 40 B HAWA-Junior 40 Z

Glass HAWA-Junior 40 GP HAWA-Junior 40 GS HAWA-Junior 40 GL

Removable, replaceable and extendible at any time!

Assembly set

The retainer profile with bayonet lock is pre-assembled and therefore offers the greatest possible protection from running track contamination during the construction phase. The running track can be installed and removed at any time once the pocket is completed, be it to fit or replace additional components.

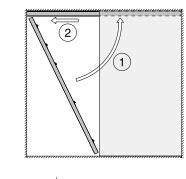
The rattle-proof bayonet lock with entry ramp makes it easier to install the running track in the retainer profile. The separating layer between the two profiles reduces vibration transmission (structure-borne noise).

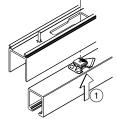
Features of the assembly set

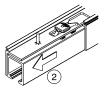
- removable running track even in fixed pocket structures
- Components in the running track can be replaced or added to as required at any time
- Furthermore, the high degree of pre-assembly also prevents contamination of the running track during the construction phase.
- Horizontal longitudinal adjustment range in the bayonet ± 8 mm
- Rattle-proof running track assembly
- Separating layer between running track and retainer profile reduces vibration transmission (structure-borne noise)
- Clip-on cover for concealed attachment of the lintel panelling up to a material thickness of 40 mm

Note

In combination with the SoftMove soft closing mechanism, the planning section of the SoftMove and assembly set installation instructions must be taken into consideration before ordering the running track.

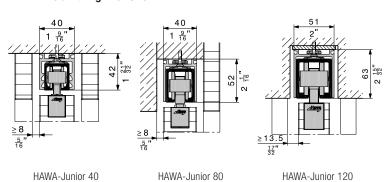






Bayonet range: 35 mm Adjustable in the bayonet: \pm 8 mm

Mounting version



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

Assembly set for Hawa-Junior 80 running track

| | code |
|--|-------|
| Set for mountable and demountable running track for 2000 (6'6 $\frac{3}{4}$ "), to HAWA-Junior 80 | 25207 |
| TO HAWA-JUNIOR 80 | 25371 |
| Set for mountable and demountable running track for 3000 (9'10 $\frac{1}{8}$ "), to HAWA-Junior 80 | 25441 |

Set comprising

| - Cot comprising | | | | | | |
|--|--|--|-------|-------|-------|-------|
| | | mm/inch | 25207 | 25371 | 25441 | code |
| | Retainer profile | 2000 (6'6 ³ / ₄ ") | 1 | _ | _ | 25212 |
| | with a bayonet lock, alu plain anodized, | 2500 (8'2 ⁷ / ₁₆ ") | _ | 1 | _ | 25443 |
| | for length of running track | 3000 (9'10 ¹ / ₈ ") | _ | - | 1 | 25444 |
| | Small parts set to retainer profil, set of 6 pieces for lenght of running track | 2000 (6'6 ³ / ₄ ") | 1 | _ | 1 | 25520 |
| ************************************** | Small parts set to retainer profil, set of 7 pieces for lenght of running track | 2500 (8'2 ⁷ / ₁₆ ") | _ | 1 | - | 25521 |
| | Small parts set to retainer profil, set of 9 pieces for lenght of running track | 3000 (9'10 ½") | _ | _ | 1 | 25522 |

Suitable for:

Wood HAWA-Junior 80 B Pocket HAWA-Junior 80 Z Glass

HAWA-Junior 80 GP HAWA-Junior 80 GS HAWA-Junior 80 G

Accessories

| | | code |
|------|--|-------|
| | Clip-on cover 2000 mm (6'6 $\frac{3}{4}$ ") alu plain anodized for lintel mounting for HAWA-Junior 40 | 25985 |
| | Clip-on cover 2000 mm ($6'6\frac{3}{4}$ ") alu plain anodized for lintel mounting for HAWA-Junior 80 | 25445 |
| | Clip-on cover 2000 mm (6' $6\frac{3}{4}$ ") alu plain anodized for lintel mounting for HAWA-Junior 120 | 25986 |
| | Guide profile, plastic black, 1300 mm (4'3उँ"), groove mounted, set of 10 pieces | 14540 |
| | SoftMove 40 soft closing mechanism for Hawa-Junior 40 | 25987 |
| J J. | SoftMove 80 soft closing mechanism for Hawa-Junior 80 | 22444 |
| | SoftMove 120 soft closing mechanism for Hawa-Junior 120 | 25988 |

Planning/installation

For planning and installation purposes, please use the installation drawing code 26036. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

Assembly set for Hawa-Junior 120 running track

| | code |
|---|-------|
| to HAWA-Junior 120 | 25994 |
| Set for mountable and demountable running track for 3000 (9'10 $\frac{1}{8}$ "), to HAWA-Junior 120 | 25996 |

Assembly set comprising

| | | mm/inch | 25994 | 25996 | code |
|--|--|--|-------|-------|-------|
| | Retainer profile with a bayonet lock, alu plain anodized, for length of running track | 2500 (8'2 ⁷ / ₁₆ ") | 1 | - | 25915 |
| | | 3000 (9'10 ½") | _ | 1 | 25916 |
| 1, 3, 4, 5, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, | Small parts set to retainer profil, set of 7 pieces for lenght of running track | 2500 (8'2 ⁷ / ₁₆ ") | _ | _ | 25993 |
| | Small parts set to retainer profil, set of 9 pieces for lenght of running track | 3000 (9'10 ½") | _ | 1 | 25995 |

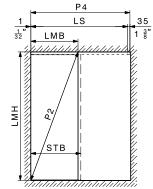
Suitable for:

Wood HAWA-Junior 120 B Glass

HAWA-Junior 120 B HAWA-Junior 120 GP HAWA-Junior 120 A HAWA-Junior 120 G

Length of running track

The length of the running track must not exceed the diagonal clearance (P2).



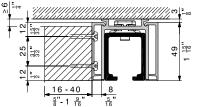
| Running track HAWA-Junior 40 | $P3 = 80 \text{ mm } (3\frac{5}{32}")$ |
|----------------------------------|---|
| Running track HAWA-Junior 80 | $P3 = 80 \text{ mm } (3\frac{5}{32}")$ |
| Running track HAWA-Junior 120 | $P3 = 100 \text{ mm } (3\frac{15}{16})$ |

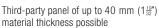
| LMB | Entire opening width |
|-----|-----------------------|
| LMH | Entire opening hight |
| STB | Sliding shutter width |
| P2 | Diagonal clearance |

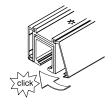
Optional cover for retainer profile

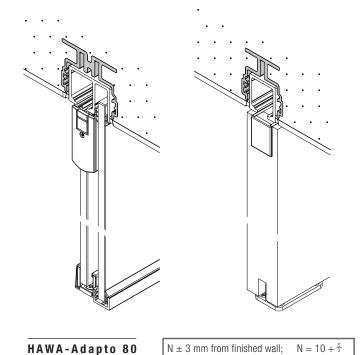
The optionally available aluminum cover simply clips onto the retainer profile with no need for additional fastening components. Installers can attach the clip-on cover to panels with a material thickness of up to 40 mm ($1\frac{19}{32}$ ") for concealed panel attachment.

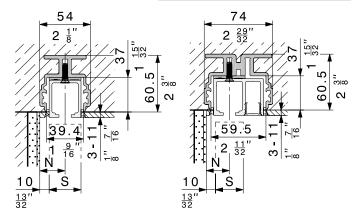
Hawa-Junior 80 mounting version











to HAWA-Junior 80 running track without fixed glass

to HAWA-Junior 80 running track with fixed glass

 $N \ge 20$

Let HAWA-Junior 80 and 120 running tracks disappear into the ceiling with the sophisticated HAWA-Adapto 80-120 profile.

Description

It is easy and economic to set the HAWA-Adapto 80-120 system in concrete, integrating it into the building shell and so allowing running tracks for HAWA-Junior 80 and 120 to be fitted flush with the ceiling, whether with or without a profile for fixed glass. This puts an end to troublesome drilling in concrete ceilings, making damaged circuits and pipelines a thing of the past.

Features of the HAWA-Adapto 80-120

- ceiling-flush fitting of HAWA-Junior running tracks for wooden and glass sliding doors up to 80 and 120 kg (176/264 lbs.)
- · economic assembly in the building shell
- frontal cover caps and a polystyrene insert prevent concrete from penetrating the system
- running tracks do not require a faceplate
- further profiles allow fixed glass to be fitted without hardware being visible
- quick and easy track levelling thanks to special adjusting screws and pre-defined spacing plates

Please observe when designing

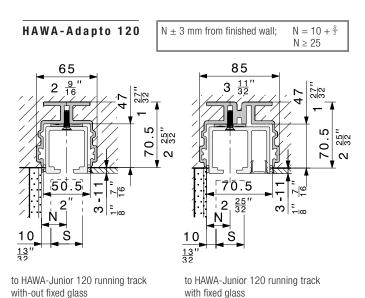
When designing your system, please take into account wall structure, ceiling layers, and exposed elements such as switches, skirting boards, etc. The HAWA-Adapto profile must be fitted exactly to the shuttering.

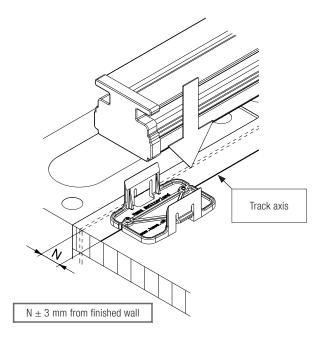
For planning and installation purposes, please use the installation drawing code 19563. (→ www.hawa.ch → HAWA-Productfinder)

Economic assembly in the building shell

The HAWA-Adapto Profile can be integrated in the building shell easily and exactly using the accessories provided:

- 1. Plot running track axis on the sheeting.
- 2. Nail plastic mounting clips to the concrete sheeting.
- 3. Fit frontal cover caps and polystyrene insert to HAWA-Adapto profile and press onto the mounting clips.
- 4. Pour concrete. Done.





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

HAWA-Adapto 80-120 without fixed glass

| | mm/inch | code | | | |
|--|---|-------|--|--|--|
| HAWA-Adapto 80, inset profile for concrete surface | 2500 (8'2 ⁷ / ₁₆ ") | 20216 | | | |
| without fixed glass, set to HAWA-Junior 80 | 4000 (13'1 ¹ / ₂ ") | 20217 | | | |
| HAWA-Adapto 120, inset profile for concrete surface | 3000 (9'10 ¹ / ₈ ") | 20218 | | | |
| without fixed glass, set to HAWA-Junior 120 | 4000 (13'1 ¹ / ₂ ") | 20219 | | | |
| Inset profile for concrete surface $4001-6000 \text{ mm} (13'1\frac{17"}{32}-19'8\frac{7}{32}")$ on request. | | | | | |

Sets comprising

| | | | _ | | _ | _ | |
|--|---|--|-------|-------|-------|-------|-------|
| | | mm/inch | 20216 | 20217 | 20218 | 20219 | code |
| | HAWA-Adapto 80 inset profile for | 2500 (8'2 ⁷ / ₁₆ ") | 1 | - | _ | _ | 20087 |
| | concrete surfaces, alu | 4000 (13'1½") | - | 1 | _ | _ | 20088 |
| | HAWA-Adapto 120 inset profile for | 3000 (9'10 ½") | - | - | 1 | _ | 20093 |
| | concrete surfaces, alu | 4000 (13'1½") | - | _ | _ | 1 | 20091 |
| | HAWA-Adapto 80 polystyrene insert HAWA-Adapto 120 polystyrene insert | 1000 (3'3 ³ / ₈ ") | 2 | 4 | _ | _ | 19418 |
| | | 500 (1'7 ¹¹ / ₁₆ ") | 1 | - | _ | - | 19556 |
| | | 1000 (3'3 ³ / ₈ ") | - | - | 3 | 4 | 19419 |
| | HAWA-Adapto 80 assembly clips, plastic black | | 4 | 5 | _ | _ | 19344 |
| | HAWA-Adapto 120 assembly clips, plastic black | | - | _ | 4 | 5 | 19346 |
| | HAWA-Adapto 80 cover plate, plastic grey | | 2 | 2 | - | _ | 19366 |
| | HAWA-Adapto 120 cover plate, plastic grey | | _ | _ | 2 | 2 | 19368 |

HAWA-Adapto 80-120 with fixed glass

| | mm/inch | code | | | |
|--|---|-------|--|--|--|
| HAWA-Adapto 80, inset profile for concrete surface | 2500 (8'2 ⁷ / ₁₆ ") | 20220 | | | |
| with fixed glass, set to HAWA-Junior 80 | 4000 (13'1½") | 20221 | | | |
| HAWA-Adapto 120, inset profile for concrete surface | 3000 (9'10 ¹ / ₈ ") | 20222 | | | |
| with fixed glass, set to HAWA-Junior 120 | 4000 (13'1 ¹ / ₂ ") | 20223 | | | |
| Inset profile for concrete surface 4001–6000 mm (13'1 $\frac{17"}{32}$ –19'8 $\frac{7}{32}$ ") on request. | | | | | |

Sets comprising

| | | mm/inch | 20220 | 20221 | 20222 | 20223 | code |
|--|---|--|-------|-------|-------|-------|-------|
| | HAWA-Adapto 80 inset profile for | 2500 (8'2 ⁷ / ₁₆ ") | 1 | - | _ | _ | 20094 |
| | concrete surfaces, alu | 4000 (13'1½") | - | 1 | _ | - | 20095 |
| | HAWA-Adapto 120 inset profile for concrete surfaces, alu | 3000 (9'10 ¹ / ₈ ") | - | _ | 1 | _ | 20100 |
| | | 4000 (13'1 ¹ / ₂ ") | _ | _ | _ | 1 | 20098 |
| | 1000 HAWA-Adapto 80 (3'3 \(\frac{3}{8}\)") | | 2 | 4 | _ | _ | 19555 |
| | polystyrene insert 500 $(1'7\frac{11''}{16})$ | 1 - | _ | _ | _ | 19557 | |
| | HAWA-Adapto 120 polystyrene insert | 1000 (3'3 ³ / ₈ ") | - | _ | 3 | 4 | 19558 |
| | HAWA-Adapto 80 assembly clips, plastic black | | 4 | 5 | _ | 1 | 19568 |
| | HAWA-Adapto 120 assembly clips, plastic black | | - | _ | 4 | 5 | 19569 |
| | HAWA-Adapto 80 cover plate, plastic grey | | 2 | 2 | _ | _ | 19968 |
| | HAWA-Adapto 120 cover plate, plastic g | rey | - | _ | 2 | 2 | 19970 |

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

Fitting set to HAWA-Adapto 80-120

| | mm/inch | code |
|--|--|-------|
| Fitting set to HAWA-Adapto 80, with countersunk screws | to 2500 (8'2 ⁷ / ₁₆ ") | 22841 |
| | 2501 to 4000 (8'2 ¹⁵ / ₃₂ " to 13'1 ¹ / ₂ ") | 22842 |
| | 4001 to 6000 (13'1 ¹⁷ " to 19'8 ⁷ ") | 22843 |
| Fitting set to HAWA-Adapto 120, with pan head screws | to 2500 (8'2 ⁷ / ₁₆ ") | 20232 |
| | 2501 to 4000 (8'2 ¹⁵ / ₃₂ " to 13'1 ¹ / ₂ ") | 20233 |
| | 4001 to 6000 (13'1 ¹⁷ / ₃₂ " to 19'8 ⁷ / ₃₂ ") | 20234 |

Set comprising

| | | mm/ inch | 22841 | 22842 | 22843 | 20232 | 20233 | 20234 | code |
|---|---|-------------------------------|-------|-------|-------|-------|-------|-------|-------|
| | | 1 (1/16") | 2 | 2 | 3 | 2 | 2 | 3 | 19398 |
| (Light St. S. | Distance plate, plastic | $2 \left(\frac{3}{32}\right)$ | 2 | 2 | 3 | 2 | 2 | 3 | 19399 |
| Jakes Jakes | | 3 (1/8") | 2 | 2 | 3 | 2 | 2 | 3 | 19400 |
| | | 5 (7/32") | 4 | 4 | 6 | 4 | 4 | 6 | 19401 |
| de de la | Special countersunk screws, $6 \times 21 \text{ mm} (\frac{1}{4} \times \frac{27}{32})$, set of 10 pieces | | 1 | 2 | 3 | _ | _ | _ | 22844 |
| Chillips . | Special pan head screws, $6 \times 22 \text{ mm } (\frac{1}{4}\text{m } \text{x} \frac{7}{8}\text{m})$, set of 10 pieces | | _ | _ | _ | 1 | 2 | 3 | 20215 |

The team: HAWA-Adapto and HAWA-Junior

HAWA-Adapto was designed for the following glass and wood sliding systems:

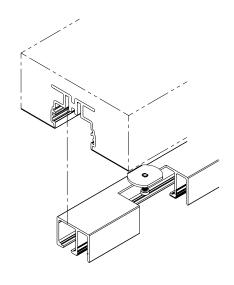
- HAWA-Junior 80-120/GP
- HAWA-Junior 80/GL
- HAWA-Junior 80-120/G
- HAWA-Junior 80-120/B

Easy installation of HAWA - Junior running tracks

The HAWA-Adapto profile has a screw duct. HAWA-Junior running tracks both with and without retainers for fixed glass can be attached via the screw duct with special adjustable 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 4 m (13'1 $\frac{1}{2}$ ").

For planning and installation purposes, please use the installation drawing code 19564. (→ www.hawa.ch → HAWA-Productfinder)

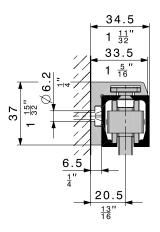


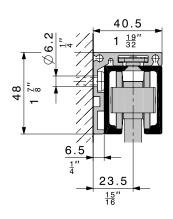
HAWA-Junior 40

Glass thickness: $8-12,7 \left(\frac{5}{16} - \frac{1}{2} \right)$

HAWA-Junior 80

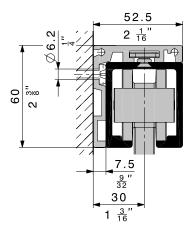
Glass thickness: $8-12,7 \left(\frac{5}{16} - \frac{1}{2}\right)$

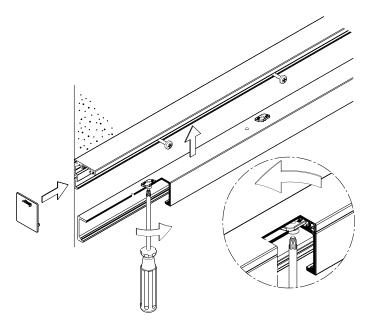




HAWA-Junior 120

Glass thickness: $8-12,7 \left(\frac{5}{16} - \frac{1}{2}\right)$





Side-fixing angled profile HAWA-Junior 40/80/120 Glass

Description

The clever wall mounting with the new angle profile for HAWA-Junior tracks, door weight up to 120 kg (264 lbs.).

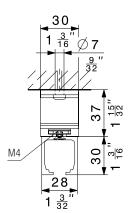
Features of the Side-fixing angled profile

- Permits top-quality design without cover-blinds
- · Groove nuts clamp tracks rapidly and simply
- Convenient levelling thanks to continuous angle profile
- High quality cover caps made of metal to angled profile 80/120 which can be mounted on the left and right.

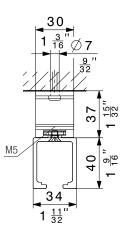
Accessories to Side-fixing angled profile

| Accessories to Side-tixing angled profile | | | | |
|---|---|--|-------|--|
| Caution: - Hole positio - Minor differ | ns vary ences in colour are possible | mm/inch | code | |
| | | 2000 (6'63") | 18291 | |
| | HAWA-Junior 40 side-fixing angled profile, | 4000 (13'1½") | 18634 | |
| | alu, plain anodized, | 6000 (19'8 ⁷ / ₃₂ ") | 17691 | |
| | predrilled | cut to size | 17692 | |
| | 114444 | 2500 (8'2 ⁷ / ₁₆ ") | 24953 | |
| | HAWA-Junior 80 side-fixing angled profile, | 4000 (13'1½") | 24952 | |
| | alu, plain anodized, predrilled | 6000 (19'8 ⁷ / ₃₂ ") | 24951 | |
| | preurineu | cut to size | 24954 | |
| | HAWA-Junior 120 | 4000 (13'1½") | 25327 | |
| | side-fixing angled profile, alu, plain anodized, | | 25328 | |
| | predrilled | cut to size | 25329 | |
| | HAWA-Junior 40 Fitting set for side fixing, 10 pieces, for running track length up to 2000 mm (6'6\frac{3}{4}") | | | |
| | HAWA-Junior 80 Fitting set for side fixing, 10 pieces, for running track length up to 2500 mm (8 $^{1}2^{\frac{7}{16}}$) | | 17786 | |
| | HAWA-Junior 120 Fitting set for side fixing, 10 pieces, for running track length 2000 mm (6'6\frac{2}{3}") | | | |
| | HAWA-Junior 40 Cover plate for side-fixing angled profile, anthracite-grey RAL 7016, 1 pair | | | |
| | HAWA-Junior 80 Cover cap to angled profile, metal, suitable to both sides, dull chromium finish, 1 piece HAWA-Junior 120 Cover cap to angled profile, metal, suitable to both sides, dull chromium finish, 1 piece | | | |
| | | | | |
| Connecting pins for profiles, set of 2 pieces | | | 21347 | |

HAWA-Junior 40



HAWA-Junior 80

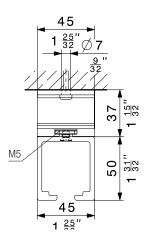


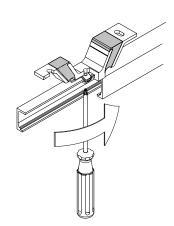
HAWA-SoundEx confines transmission of structure-borne noise from the sliding system to the building.

HAWA-SoundEx

| | | | code |
|-------|---|-----------------|-------|
| | HAWA-SoundEx, | HAWA-Junior 40 | 19588 |
| parts | including fixing parts for running track, | HAWA-Junior 80 | 19589 |
| | 1 piece | HAWA-Junior 120 | 19590 |

HAWA-Junior 120

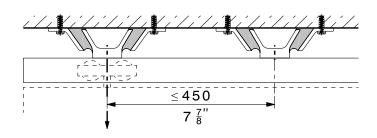


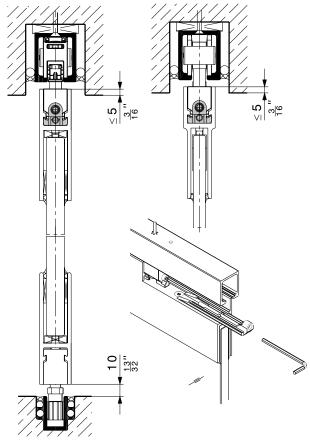


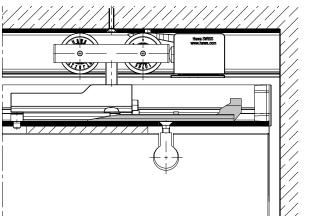
Planning/installation

For planning and installation purposes, please use the installation drawing code 19661.

(→ www.hawa.ch → HAWA-Productfinder)







Hanging and removing the sliding doors without dismantling the door lining and facing

Please note the following points:

- A detachable 100 mm (3^{1,5}/₁₆")-wide rabbet has to be added on the lock side.
- The depth at which the sliding door runs in the ceiling or at the top in the door facing may not exceed 5 mm (⁷/₂₀).
- When closed, the sliding door may not stand more than 50 mm (1^{31"}) behind the cover.

Sliding door constructions running in the ceiling

Please note the following points:

This type of construction is often carried out without a facing. If a facing has been installed, it either has to be removable or else a removable 100 mm (3^{1.5}/₁₆")-wide rabbet has to be installed on the lock side.

HAWA-Assembly wedge

Description

This is an installation wedge for frontal attachment of sliding doors, and it opens up new design options for architects and interior designers. This wedge permits constructions in which the sliding door runs in the ceiling, and it also makes it possible to hang and remove sliding doors without having to first dismantle the door lining and facing.

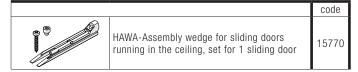
It is also suitable for use with the following hardware sets:

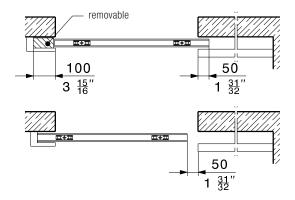
- HAWA-Junior 80/G
- HAWA-Junior 120/B,120/G
- HAWA-Silenta 150/B
- HAWA-Junior 250/B, 250/G

Applications

The wedge is suitable for use in elegant interiors, e.g. in hotels, offices, industrial and administrative buildings and private dwellings.

HAWA-Assembly wedge

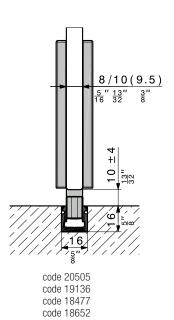


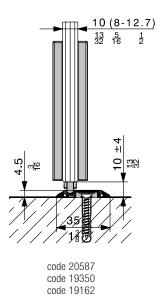


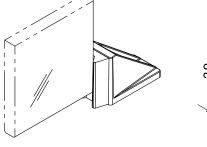
Planning/installation

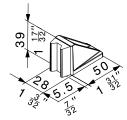
For planning and installation purposes, please use the installation drawing code 15596. (\rightarrow www.hawa.ch \rightarrow HAWA-Productfinder)

- Accessories









Bottom guides

Additional guide variants for HAWA-Ordena 70 and other systems.

Bottom guide channel

| Caution: Hole positions | s vary | mm/inch | code |
|---|--|--|-------|
| | Bottom guide channel, | 3500 (11'5 ¹³ ") | 18864 |
| | alu, plain anodized, predrilled, $16 \times 16 \text{ mm} \left(\frac{5}{8}" \times \frac{5}{8}"\right)$ | 6000 (19'8 ⁷ / ₃₂ ") | 18216 |
| | | cut to size | 18477 |
| | | 2500 (8'2 ⁷ / ₁₆ ") | 19348 |
| | Single bottom guide profile, | 3500 (11'5 13") | 19349 |
| | alu plain anodized | 6000 mm (19'8 ⁷ / ₃₂ ") | 18956 |
| | | cut to size | 19350 |
| Set of fixing parts for bottom guide profiles, 5 pieces | | | |

Floor guides

| | code |
|---|-------|
| Spring loaded floor guide, for 1 glass sliding door, ESG¹/VSG² (2 pieces) | 20587 |
| Patch suspension with glass holder insert, ESG¹/VSG² | 20505 |
| Floor guide, rattle proof, to patch suspension 20505 | 19136 |

Asccessories

| | | code | | |
|---|---|-------|--|--|
| | End stopper for alu bottom guide channel 16×16 mm $(\frac{5}{8}" \times \frac{5}{8}")$ | 18652 | | |
| | centering assembly, grey, for all glass sliding doors | 18619 | | |
| Cover plates: → HAWA-Ordena 70/HAWA-Junior GP | | | | |

HAWA-Bottom door stop

The bottom door stop quietly and gently stalls sliding doors with panel weights up to 250 kg (550 lbs.).

Sliding doors should be stopped simultaneously at top and bottom.

Bottom door stop

| | | code |
|-------------------------|---------------------------|-------|
| Bottom door stop | dull chromium finish | 20773 |
| with centering assembly | stainless steel effect | 21473 |

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

¹fully tempered monolithic glass

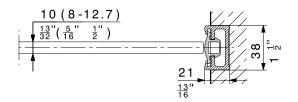
² fully tempered laminated glass

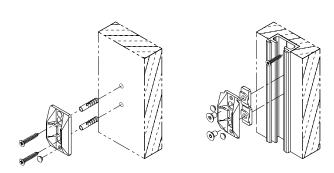
HAWA-Wall connection profile

The ideal wall connection profile for all-glass sliding doors with unprotected glass edges, e.g. for HAWA-Junior GP and GS.

Wall connection profile

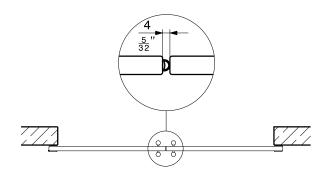
| · . | | | | | | |
|--|---|--------------------------|---|-------|--|--|
| Caution: Minor differer | nces in colour are | possible | mm/inch | code | | |
| MD. | | plain | 2500 (8'2 ⁷ / ₁₆ ") | 17020 | | |
| | Wall profile, | Wall profile. | 3500 (11'5 13") | 17021 | | |
| | alu, undrilled | stainless | 2500 (8'2 ⁷ / ₁₆ ") | 20119 | | |
| | '1111 | steel effect, brushed | 3500 (11'5 13") | 20120 | | |
| | Seal profile, black, | | | 16452 | | |
| | for wall profile | | roll of 3500 (11'5 13") | 16453 | | |
| 800 | Centering assembly black for all glass sliding doors, to wall profile | | | 18663 | | |
| Centering assembly grey for all glass sliding doors | | | 18619 | | | |





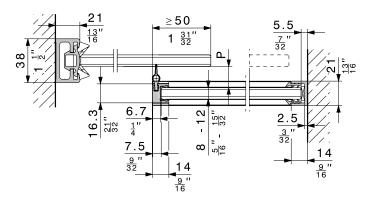
${\bf HAWA-Rubber\ profile\ for\ glass\ edge\ protection}$

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



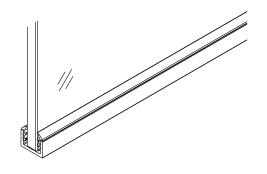
Rubber profile for glass edge protection

| | | roll of | code |
|--|---|---|-------|
| for 8/10 mm $(\frac{6}{16})$ $(\frac{3}{12})$ glass thickness, black, glass distance 4 mm $(\frac{6}{32})$ | Rubber profile self-adhesive, | 5 m (16'4 ²⁷ ") | 19442 |
| | | 10 m (32'9 ²³ / ₃₂ ") | 19443 |
| | glass distance 4 mm ($\frac{5}{32}$ ") | 50 m (164'½") | 19444 |
| | (/ 0 | 5 m (16'4 ²⁷ / ₃₂ ") | 19445 |
| | | 10 m (32'9 ²³ / ₃₂ ") | 19446 |
| | glass distance 4 mm ($\frac{5}{32}$ ") | 50 m (164'½") | 19447 |



Glass distance «P» for vertical sealing profile

| System | Glass thickness sliding door mm/inch | Vertical- seal | Glass distance «P» mm/inch |
|-----------------------|--|-------------------|--|
| HAWA-Junior 40/GP | $ 8-12 $ $ \binom{5}{16} - \frac{15}{32} $ | 13/18 | $\begin{array}{c} 13 - 15 \\ {\frac{17}{32}} - {\frac{19}{32}} \end{array})$ |
| HAWA-Junior 80/GP | $ 8-12 $ $ \binom{5}{16} - \frac{15}{32} $ | 13/18 | $\begin{array}{c} 15-17 \\ \frac{19}{32} - \frac{11}{16} \end{array}$ |
| HAWA-Junior 120/GP | $ 8-12 $ $ \binom{5}{16} - \frac{15}{32} $ | 20/22 | $20-22$ $(\frac{25}{32} - \frac{7}{8})$ |
| HAWA-Junior 40/GL | 8-10 (⁵ / ₁₆ - ¹³ / ₃₂) | 13/18 | $\begin{array}{c} 13-16 \\ \binom{17}{32} - \frac{5}{8} \end{array}$ |
| HAWA-Junior 80/GL | 8-10 (⁵ / ₁₆ - ¹³ / ₃₂) | 13/18 | $\begin{array}{c} 15 - 18 \\ \left(\frac{19}{32} - \frac{23}{32}\right) \end{array}$ |
| HAWA-Junior 80/G | $8-13$ $\left(\frac{5}{16} - \frac{17}{32}\right)$ | 13/18 | $\begin{array}{c} 15-17 \\ \left(\frac{19}{32} - \frac{11}{16} \right) \end{array}$ |
| HAWA-Junior 120/G | $8-13$ $\left(\frac{5}{16} - \frac{17}{32}\right)$ | 20/22 | $20-22$ $(\frac{25}{32} - \frac{7}{8})$ |
| HAWA-Puro 100-150 | $11-13$ $(\frac{7}{16} - \frac{17}{32})$ | 13/18 | $14-18,5$ $(\frac{9}{16} - \frac{3}{4})$ |
| HAWA-Puro 100-150 | 8-10 (⁵ / ₁₆ - ¹³ / ₃₂) | 18/20 | 18-20,5 (33"-13") |
| HAWA-Purolino PLUS 80 | $8-12$ $\binom{5}{16} - \frac{15}{32}$ | 20/22 | $20-22$ $(\frac{25}{32} - \frac{7}{8})$ |



Vertical sealing profile

The vertical sealing profile is effective against draughts. The slim aluminium profile affixes frontally to glass elements 8–12 mm $(\frac{5}{16}|^{-15^{u}})$ 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.

Vertical sealing profile

| Caution: Minor differer | nces in colour are possible | mm/ inch | code | |
|-------------------------|--|---------------------------------------|--|-------|
| | Vertical seal 13/18, alu, for all-glass sliding doors with fixed glass, set for glass distance 13–18,5 mm $\left(\frac{17}{32}-\frac{3}{4}\right)$ | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 20283 |
| | | | 3500 (11'5 13") | 20284 |
| | | stainless steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 21290 |
| | | | 3500 (11'5 ¹³ ") | 21291 |
| | Vertical seal 18/20, alu, for all-glass sliding doors with fixed glass, set for glass distance 18–20,5 mm (32 - 13 f) | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 21246 |
| | | | 3500 (11'5 ¹³ / ₁₆ ") | 21247 |
| | | stainless steel effect, brushed | 2500 (8'2 ⁷ / ₁₆ ") | 21335 |
| | | | 3500 (11'5 ¹³ ") | 21336 |
| | Vertical seal 20/22, alu, for all-glass sliding doors wtih fixed glass, set for glass distance 20–22 mm (ﷺ "") | plain anodized | 2500 (8'2 ⁷ / ₁₆ ") | 20650 |
| | | | 3500 (11'5 13 16") | 20651 |

Bottom/wall profile to fixed glass

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

Bottom, wall and rubber profile to fixed glass

| Caution: - Hole positions vary - Minor differences in colour are possible | | mm/inch | code |
|---|--|--|-------|
| | Bottom/wall profile to fixed | 4000 (13'1½") | 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 | 4000 (13'1 ¹ / ₂ ") | 21285 |
| | | 6000 (19'8 ⁷ / ₃₂ ") | 21286 |
| | effect, brushed, predrilled | cut to size | 21287 |
| | Rubber profile, black to fixed glass $8-9.9 \text{ mm} \left(\frac{5}{16} - \frac{13}{32}\right)$ | | 25787 |
| | Rubber profile, black to fixed glass 10–12 mm ($\frac{13}{32}$ "– $\frac{15}{32}$ ") | roll of 10 m (32'9") | 25789 |
| | Rubber profile, black to fixed glass $12.1-13.1 \text{ mm} \left(\frac{15"}{32}-\frac{17"}{32}\right)$ | | 25763 |

H A W A -- 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.
- 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.

Subject to modification.

H A W A -- General Terms and Conditions (GTC)

- 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.

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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HAWA-Productfinder

The HAWA-Productfinder offers not only prompt assistance when searching for the best sliding solution but also an abundance of other information. Downloading brochures, photos, assembly instructions and drawings from the integrated and extensive Download Zone could not be more convenient.

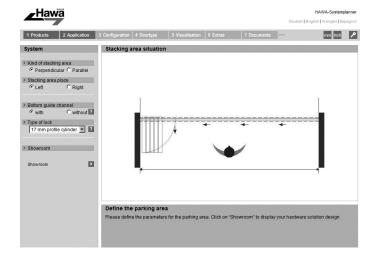
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