



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

Description

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

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

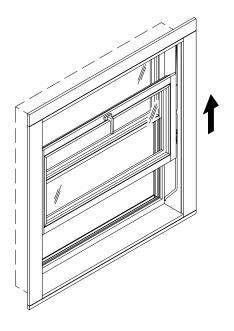
Window height up to 900 mm (2'11 $\frac{7}{16}$ "), maximum window width 3200 mm (10'6") or window height up to 1200 mm (3'11 $\frac{1}{4}$ "), maximum window width 2000 mm (6'6 $\frac{3}{4}$ "). For larger panels, the cable must be ordered separately. (→ calculation for the cable length)

Features of the Hawa Vertical 150

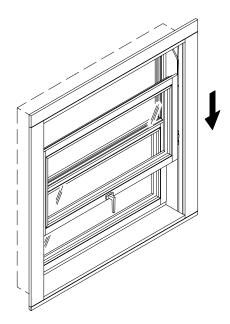
- One sliding panel
- White, black or brown plastic guide profiles
- Smooth sliding properties
- Maintenance-free
- Mortising of guide channel with all-purpose mortising template
- Standard window and frame rebates

Ventilation

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



Hawa Vertical 150/3



Hawa Vertical 150/5

Set

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

Set comprising

Set comprising		l .	pieces	code
	Cable retainer, complete		2	20914
	Edge fixed guide bracket		2	20913
(Second)	Safety pin		2	20912
	Pulley block, alu		3	10527
	Plastic wheel with ball bearings, Ø 70 mm (2 3/4")		3	10764
	Cable 4 mm $(\frac{5}{40})$, unit 8 m $(26'2\frac{6!}{64})$		1	10575
	Self-adhesive	brown	2	10650
	rubber spacer	white	2	10651
01.6	Set of eye bolt and cable clamp for counterweight		1	10797
17	Set of screws for particle board		1	20911
	Track deadbolt lock, steel galvanized, deadbolt 8 mm (ਜੂੰ)		2	20899
20	Set of 2 pieces press fit roses, brass dull nickel finish		1	13926
	Panel bracket with wheel		2	14465

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

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

Accessories

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

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

Calculation for the cable length

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

Order specifications

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

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

Planning/installation

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