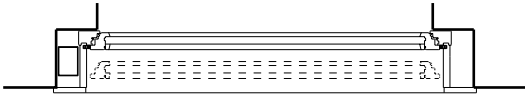
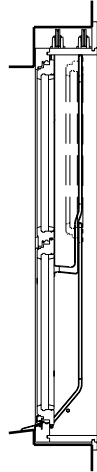
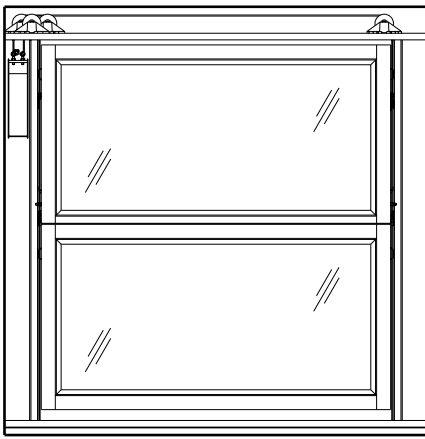


## Hardware system for vertically sliding windows weighing up to 150 kg (330 lbs.).



### Description

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

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

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

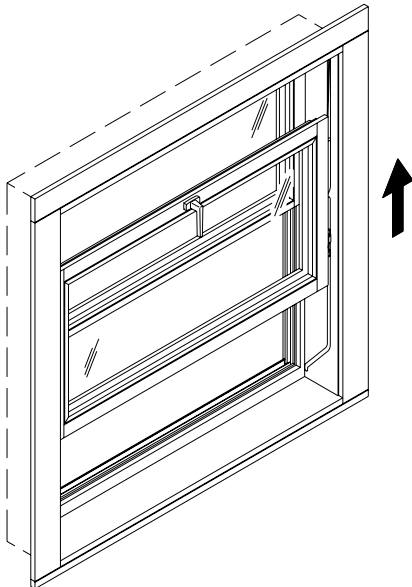
For larger panels, the cable must be ordered separately.  
(→ calculation for the cable length)

### Features of the HAWA-Vertical 150

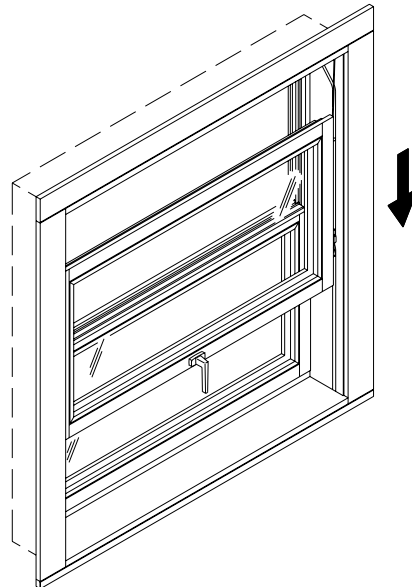
- One sliding panel
- White, black or brown plastic guide profiles
- Smooth sliding properties
- Maintenance-free
- Mortising of guide channel with all-purpose mortising template
- Standard window and frame rebates

### Ventilation

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



HAWA-Vertical 150/3















HAWA-Vertical 150/5

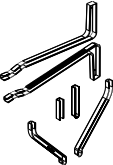
## Set

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




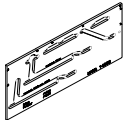

## Set comprising

			pieces	code
	Cable retainer, complete		2	20914
	Edge fixed guide bracket		2	20913
	Safety pin		2	20912
	Pulley block, alu		3	10527
	Plastic wheel with ball bearings, Ø 70 mm (2 <sup>3</sup> / <sub>4</sub> " )		3	10764
	Cable 4 mm ( <sup>5</sup> / <sub>32</sub> "), unit 8 m (26'2 <sup>5</sup> / <sub>8</sub> " )		1	10575
	Self-adhesive rubber spacer	brown	2	10650
		white	2	10651
	Set of eye bolt and cable clamp for counterweight		1	10797
	Set of screws for particle board		1	20911
	Track deadbolt lock, steel galvanized, deadbolt 8 mm ( <sup>5</sup> / <sub>16</sub> " )		2	20899
	Set of 2 pieces press fit roses, brass dull nickel finish		1	13926
	Panel bracket with wheel		2	14465

## Set of guide channels to HAWA-Vertical 150/3 and 150/5

		code
	brown	10322
	black	17135
	white	10324

## Accessories

		code
	brown	10566
	black	17140
	white	10580
	Cable 4 mm (5/32") cut to size	10531
	Key for deadbolt lock	10723
	All-purpose mortising template	14399
	Drilling jig for edge fixed guide bracket	12909

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

## Calculation for the cable length

Length of cable = 2 x H + 1 x W + 1000 mm (3'3 3/8")

## Order specifications

Order specifications for panels larger than 900 mm x 3200 mm (2'11 7/16" x 10'6"), or 1200 mm x 2000 mm (3'11 1/4" x 6'6 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](http://www.hawa.ch) → HAWA-Productfinder)