

HAWA®

*Now your windows have  
the best outlook – with  
HAWA-Vertical 150, the  
versatile hardware system for  
vertically sliding windows.*

# Vertical



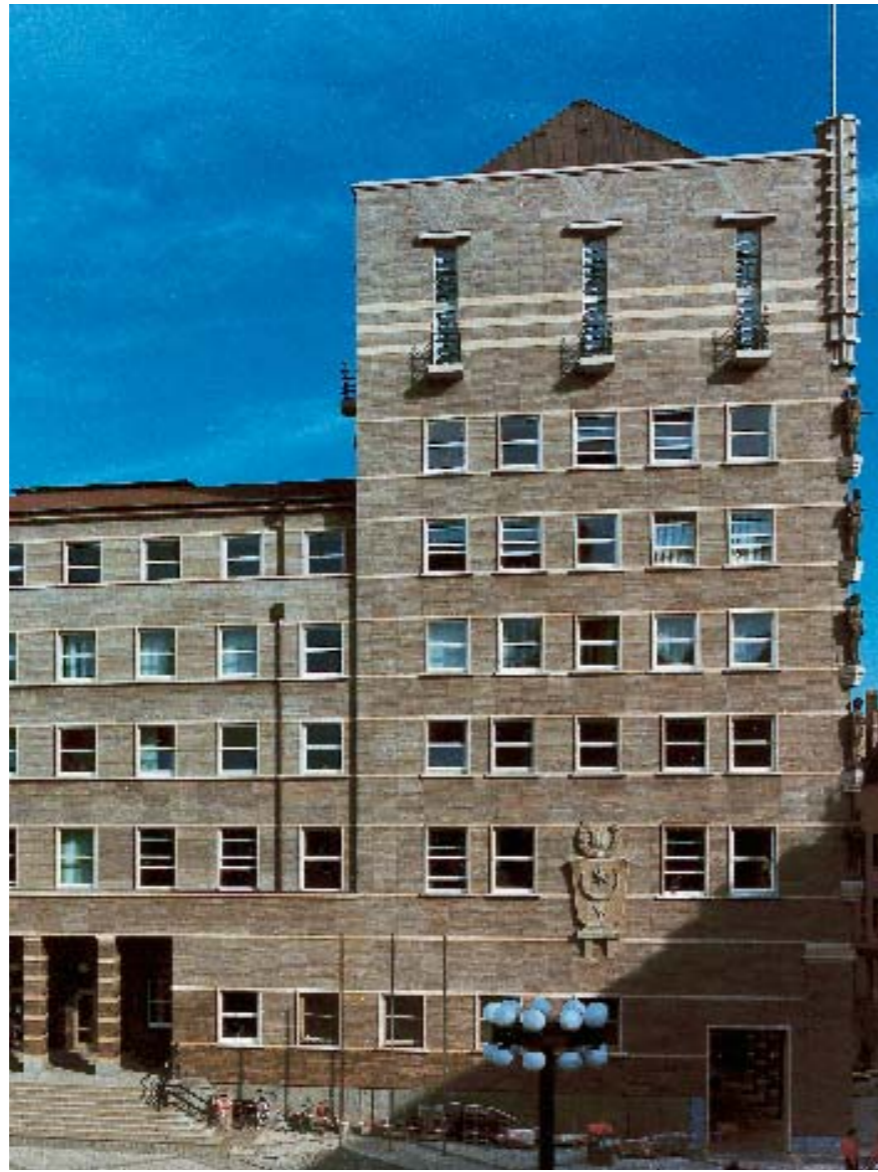


**The elegant way of saving space with windows:**

**HAWA-Vertical 150, hardware system for vertically sliding windows for panel weights up to 150kg.**

#### Additional space

HAWA-Vertical 150 is the ideal aesthetic and functional solution to all space problems in connection with windows. This highly reliable system is based on a long-established concept – the vertically sliding window – and is an entirely new version employing the very latest technology. This system eliminates the opening radius which conventional windows require, yet means you do not need to make the slightest compromise with regard to ventilation.



Ideal for modern architecture: Town Hall, Halle/Saale, Germany.

#### Leading technology

As is the case with so many ingenious solutions, HAWA-Vertical 150 is based on a simple principle: each sliding window panel moves in plastic grooves mounted on the sides and balanced with an individually adapted counterweight. As a result, window panels with a weight of up to 150kg can be moved up and down with the greatest of ease and almost without a sound. And the HAWA-Vertical 150 will keep sliding year after year, entirely maintenance-free.



Space-saving can be so elegant: Town Hall, Halle/Saale, Germany.

#### Completely versatile

HAWA-Vertical 150 gives you almost unlimited scope for manoeuvre. With this system you can install a lower panel which slides up (150/3), an upper panel which slides down (150/5), entirely in keeping with your specific requirements. This versatility of the HAWA-Vertical 150 means that you have a tailor-made solution for every situation, whether in a small office or a grand hotel.



Precise control of fresh air: The versatility of the HAWA-Vertical 150.



Perfect combination of technology and aesthetics: Hotel Albana, Weggis, Switzerland.



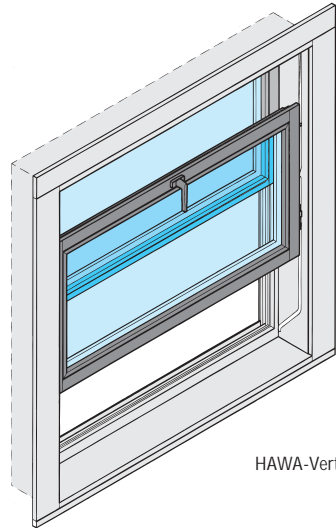
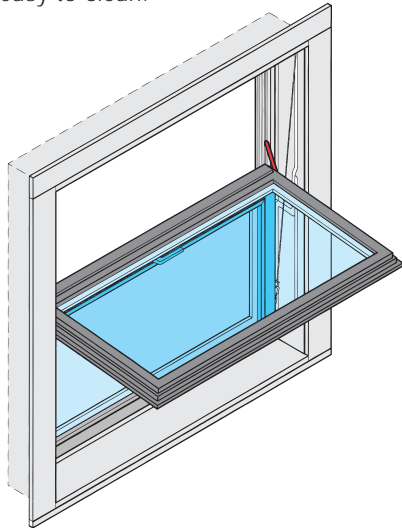
Full freedom of movement in the vicinity of all windows: Hotel Albana, Weggis, Switzerland.

**HAWA-Vertical 150/3  
and 150/5:**

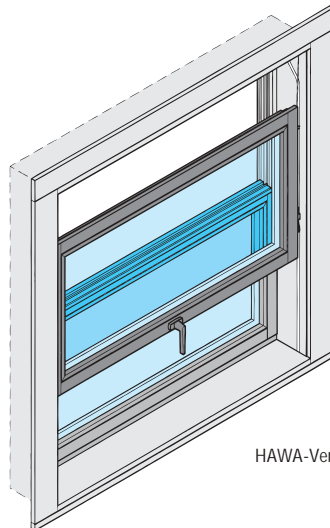
**Two different ways to  
make a virtue of space  
limitations.**

**Comfort down to the  
tiniest detail**

Ventilating a room is no problem with the HAWA-Vertical 150. If you require additional ventilation possibilities, simply equip the window panel with a tilt mechanism. This also makes it easy to clean.



HAWA-Vertical 150/3



HAWA-Vertical 150/5

**Visible progress**

Even with a faultlessly functioning window fitting, such as the HAWA-Vertical 150 you are nonetheless entitled to expect improvements, and during the past 30 years this highly successful system has been constantly perfected and technologically updated. A new feature is that the cable guide is now provided with an additional pulley wheel. The cable is now guided between window jamb and overlap so that it can hardly be noticed any longer.

**Planning and installation**

For planning and installation of your windows, please request our 1:1 installation plan (free of charge – order no. 14499).

**HAWA-Vertical 150/3, 150/5**

16103	Partial set, without guide channels
10322	Set of guide channels, brown
17135	Set of guide channels, black
10324	Set of guide channels, white

**Guide channels**

10566	Middle part of guide channel, 600 mm, brown
17140	Middle part of guide channel, 600 mm, black
10580	Middle part of guide channel, 600 mm, white

The hardware system components are supplied for a maximum window height of 1200 mm (3'11"). To accommodate panels of a greater height, additional guide channels have to be ordered.

**Accessories**

10531	Cable 4 mm ( $\frac{3}{16}$ " ), cut to size
10723	Key for deadbolt lock
14399	All-purpose mortising template
12909	Drilling jig for edge fixed guide bracket

Counterweight, tilting mechanism, window-locks and grips are not supplied by HAWA.

**Further information:**

Hawa AG  
CH-8932 Mettmenstetten, Switzerland  
Phone +41 44 767 91 91, Fax +41 44 767 91 78  
www.hawa.ch

Available from  
specialist dealers

