



Hahn VL-Band AT



Concealed door hinge for premium-quality
commercial and residential doors



Actually too
beautiful to conceal

new





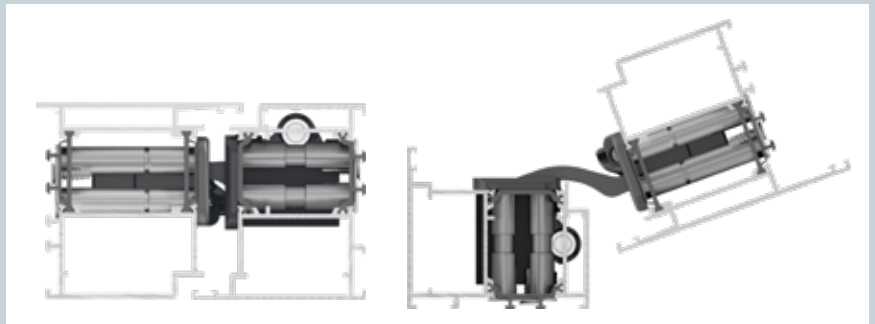
Hahn VL-Band AT

Concealed
door hinge for
flush-mounted
aluminium
profiles

Other advantages:

- 1 Screws coated black – for a harmonious appearance
- 2 Elegant black surface – almost invisible in the profile
- 3 Scale shows the adjustment – door leaf can be easily aligned
- 4 Fastening segments for different profile widths – one hinge version for different profile systems
- 5 Plastic shell conceals the inside of the profiles – thus improving the profile's thermal insulation
- 6 Horizontal adjustment ± 4 mm
- 7 Vertical adjustment ± 4 mm
- 8 Adjustment of sealing compression ± 1.5 mm
- 9 Adjustment screws easy to distinguish – for easy adjustment
- 10 Self-locking support arm – directly holds the door leaf in position
- 11 Seal remains intact – no interruption necessary

- Maximum permissible door weight for two hinge applications is 180 kg, depending on the design of the profile section
- Bearing point, maintenance-free
- Adjustable in six directions
- Suitable for inswing and outswing doors
- Easy to install
- Removal without a special tool
- Maximum opening angle 105°. With the door open, the hinge still provides a clear width of 100 % (few exceptions are profile-related)
- Can be used on left or right-hand doors
- Door hinges are largely pre-assembled
- CE-certified according to EN 1935:2002, hinge class 13 for very heavy duty



Perfectly concealed!

Hahn VL-Band AT for highly representative entrance areas

The technical advantages of the Hahn VL-Band AT include faster processing, greater convenience on the building site and easy adjustability. The new concealed hinge design for doors made of flush-mounted aluminium profiles is completely concealed inside the profiles.

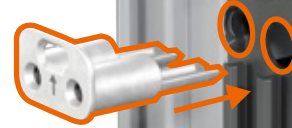


Adjustable in 3 dimensions

The new hinge can be adjusted continuously in 6 directions. It allows for both vertical and horizontal adjustment of ± 4 mm. Scale marks on the hinge show the installer the exact position of the hinge. A new feature is the ability to adjust the sealing compression by ± 1.5 mm.

With these 6-directional adjustment options, every door can be adapted to the specific conditions on site. The adjustment can be carried out by one person while the door leaf is mounted.

Installation instructions

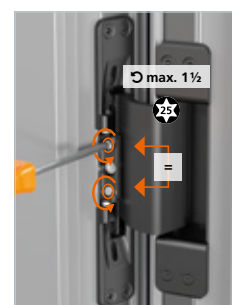
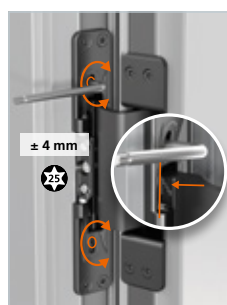
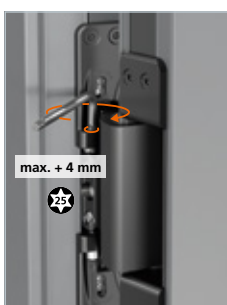


Variable fastening elements

Newly developed fastening elements ensure a stable attachment of hinge parts to the profile, thus preventing any deformation. The elements can variably bridge profile widths between 38 and 83 mm by being combined with one another in different ways. The fastening elements can be placed both on aluminium as well as on polyamides of the thermal break.

This means that the VL-Band AT can be used on a wide range of profile series. The hinge can be mounted on left hand and right hand doors as well as on in-swing as out-swing.

Adjustment instructions



The new Hahn VL Band AT is especially popular among architects who attach great importance to uncompromising aesthetic appeal while planning objects that call for durable door hinges and a high degree of security.

Elegant design

The design of the new hinge is especially appealing: The hinge will be provided in a completely black finish. Furthermore, the design team at Dr. Hahn placed special emphasis on reducing the amount of visible screws. The fastening screws are all in the same black finish as the hinge and only the adjustment screws are in the usual silver finish. A plastic sleeve covers the machined area on the frame side, increasing the thermal insulation and concealing the internal area of the profile. The seal also remains intact.



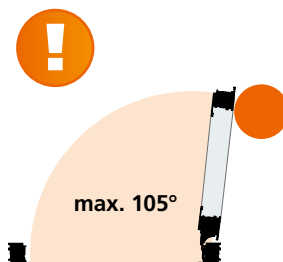
Greater load capacity and simplified installation

When two hinges are used, the Hahn VL-Hinge AT supports door leaves weighing up to 180 kg, depending on the profile section's design. Since door profiles act differently as a result of their technical designs, Dr. Hahn provides detailed drawings for assembly and machining and weight charts for the profile specific use of the concealed hinge. Dr. Hahn recommends enquiring about the service by its Application Technology department prior to using the hinge.

Using a specifically shaped linkage, the two hinge bodies are fit together. It guarantees that the door leaf reaches its final position without additional support. There is no need for any special tools to remove the door and only one screw has to be removed per hinge. Dr. Hahn supplies the VL-Band with a high degree of pre-assembly of its components.

Easier disassembly

Disassembly on the building site is especially easy. It is necessary to loosen only one safety screw per hinge in order to be able to remove the door leaf without any special tool. As with the current version, it allows doors to open up to a maximum 105°. An opening angle has to be limited below this point.



Variations

Product number	Fastening segments	
V46180000	VL-Band AT WS 38-53 / 38-53	
V46180001	VL-Band AT WS 38-53 / 53-68	
V46180002	VL-Band AT WS 53-68 / 53-68	
V46180003	VL-Band AT WS 38-53 / 68-83	
V46180004	VL-Band AT WS 53-68 / 68-83	
V46180005	VL-Band AT WS 68-83 / 68-83	



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