


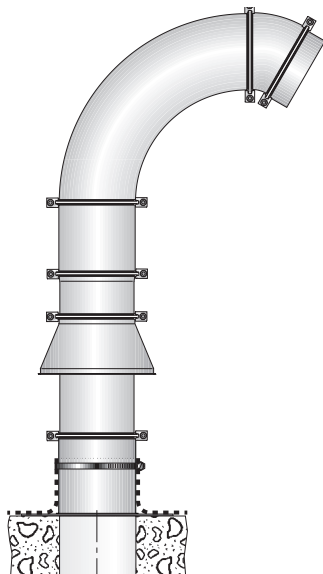


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|--|--|----|
|  | Montageanleitung - SHD 100...300<br>Flachdachdurchführung „Schwanenhals“           | DE |
|  | Installation instructions - SHD 100...300<br>Flat roof entry „swan neck“           | EN |
|  | Instrukcja montażu - SHD 100...300<br>Przepust do płaskiego dachu „łabędzia szyja“ | PL |

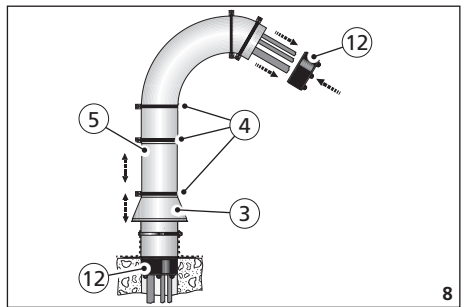
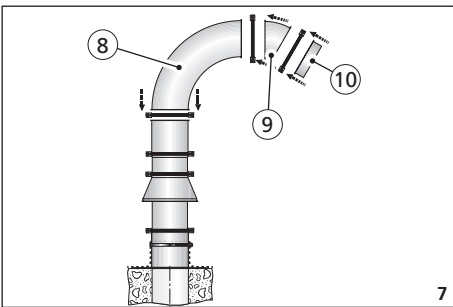
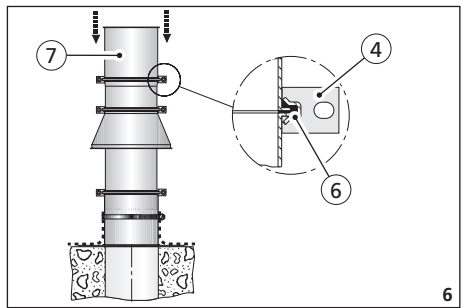
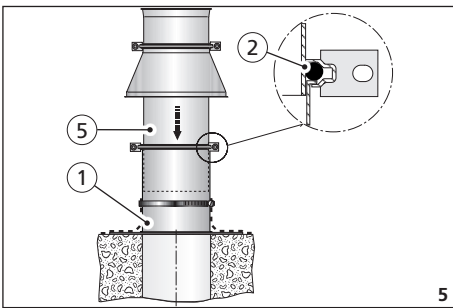
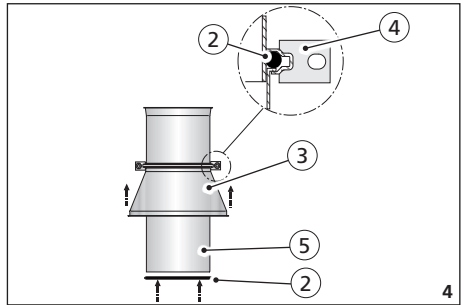
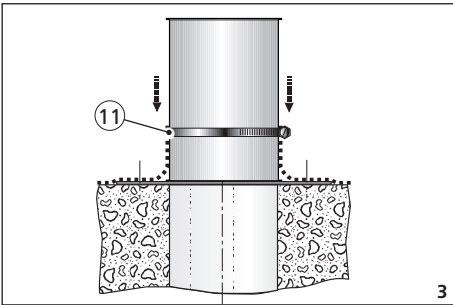
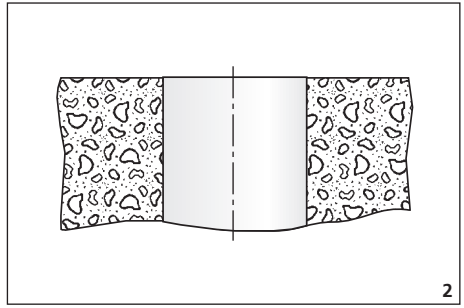
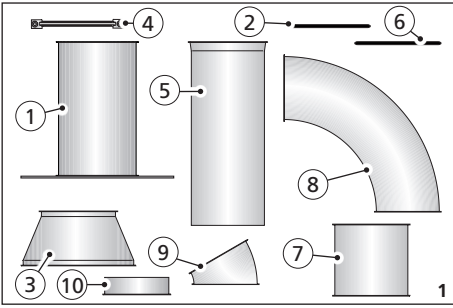


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Vor Beginn der Montage Anleitung lesen und gut aufbewahren!  
Read the instructions prior to installation and keep them in a safe place!  
Przed rozpoczęciem montażu należy zapoznać się z instrukcją i przechowywać ją w bezpiecznym miejscu!

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## Safety instructions and information

EN

### Target group

The installation may only be carried out by technical experts.

- Qualified and trained individuals carrying out installation must have
- knowledge of general safety and accident prevention regulations as amended,
  - knowledge of how to use safety equipment,
  - knowledge of how to use hand tools and electric tools,
  - knowledge of the relevant standards and guidelines for laying pipes/cables as amended,
  - knowledge of the waterproof concrete directive and building waterproofing standards as amended.

### General information and intended use

In line with their intended use, our products have been developed solely for installation in buildings made of state-of-the-art materials. Insofar as no express written confirmation has been provided by us, we do not accept any liability for any other purposes or purposes going beyond the above.

For warranty conditions, please see our current General Terms and Delivery Conditions.

Suitable for all standard flat roof structures. The flexible and modular system is height-adjustable and can be aligned within a 360° pivoting range. Other possible areas of application include wireless technology, solar technology and HVAC.

### Safety

This section provides an overview of all the main safety aspects for optimum protection of personnel and a safe installation process. Failure to observe the instructions and safety information set out here may result in significant hazards.

System cover installation must comply with the relevant professional association regulations, VDE provisions, national safety and accident prevention regulations as well as safety regulations (work and procedural instructions).

The fitter must wear the relevant protective clothing. Only intact components may be installed.

### The following instructions must be observed prior to installation of the system cover:



#### Risk of injury in the event of improper installation!

Improper installation can result in significant bodily harm and property damage.

#### ! NOTICE!

#### No sealing due to incorrect installation!

Improper installation can result in damage.

- Observe the laying guidelines of the waterproof membrane and cable manufacturers.
- When installing, observe the current standards in terms of protection against lightning strikes and overvoltage! (DIN EN 62305-3 (VDE 0185-305 Part 3))
- Cables or pipes must not be fed into the entry mechanically.
- The outside of the building must be flat, dry and clean before installation. Thoroughly remove and smooth out any unevenness on the surface of the basic footprint near the flange.
- If several cable entries are to be installed, an edge distance of > 300 mm must be ensured.
- For details of other accessories and further information, see [www.hauff-technik.de](http://www.hauff-technik.de) and the technical data sheets.

### Personnel requirements

#### Qualifications



#### Risk of injury in case of inadequate qualification!

- Improper handling can result in significant bodily harm and property damage.
- Installation may only be carried out by qualified and trained individuals who have read and understood these instructions.

#### Skilled experts

Based on their specialist training, skills, experience and familiarity with the relevant provisions, standards and regulations, skilled experts are able to carry out the work assigned, independently identifying and avoiding potential hazards.

### Transport, packaging, scope of delivery and storage

#### Safety instructions in connection with transport

#### ! NOTICE!

#### Damage in the event of improper transport!

Significant damage can occur in the event of improper transport.

- When unloading packaging items on delivery and in the course of in-house transport, proceed with care and observe the symbols on the packaging.

### Transport inspection

Inspect the delivery immediately on receipt for completeness and transport damage. In the event of transport damage being visible from the outside, proceed as follows:

- Do not accept the delivery or only do so subject to reservations.
- Make a note of the extent of damage in the transport documentation or delivery note provided by the transporter.



- Submit a claim for every defect as soon as it has been identified.
- Claims for damages can only be asserted within the applicable claim period.

### Scope of supply

The scope of delivery of the SHD 100...300 swan neck „flat roof entry“ includes:

- 6 tensioning rings (2-piece)
- 1 dowel flange
- 1 insertion tube
- 1 cone covering
- 2 O-seals
- 4 profile seals
- 1 attachment tube
- 1 90° pipe elbow
- 1 30° pipe elbow
- 1 adaptor piece

### Storage

#### NOTICE!

#### Damage due to improper storage!

Significant damage can occur in the event of improper storage.

- Protect the SHD from damage, damp and soiling prior to installation. Only intact components may be installed.
- The SHD must be stored in such a way that it is not exposed to low temperatures (<5 °C), high temperatures (>30 °C) or direct sunlight.

### Disposal

If no return or disposal agreement has been concluded, recycle dismantled components after they have been properly dismantled:

- Metal remains are to be scrapped according to existing environmental regulations.
- Disposal of elastomers according to existing environmental regulations.
- Disposal of plastics according to existing environmental regulations.
- Disposal of packaging material according to existing environmental regulations.

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**1 Legal notice**

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**2 Explanation of symbols****1** Work stages

▶ Effect/result of a work stage

**1** Reference numerals in drawings**3 Tools and aids required**

For the correct installation of the swan neck „flat roof entry“ **SHD100...300** the following tools, aids and accessories are required in addition to the usual standard tools:

**Tools:**

Internal hex SW6 (M8)

**Aids:**

Cleaning cloth

**4 Description****SHD 100...300** (see Fig.: 1).

Legend for Fig.: 1

- 1 Dowel flange
- 2 O-seal
- 3 Cone covering
- 4 Tensioning ring 2-piece
- 5 Insertion tube
- 6 Profile sealing ring
- 7 Attachment tube
- 8 90° pipe elbow
- 9 30° pipe elbow
- 10 Adaptor piece

**5 Installation: SHD100...300****1** Create core drill hole (see Fig.: 2).

Type	drill hole
<b>SHD100</b>	$D_{max} = 105 \text{ mm}$
<b>SHD150</b>	$D_{max} = 155 \text{ mm}$
<b>SHD200</b>	$D_{max} = 205 \text{ mm}$
<b>SHD300</b>	$D_{max} = 305 \text{ mm}$

Table 1

**2** Position the dowel flange centrally over the core drill and dowel on the surface (fastenings not included in scope of delivery) (see Fig.: 3).**3** Clamp the waterproof membrane with a clamp (not included in the scope of delivery) or weld with the dowel (see Fig.: 3).

Legend for Fig.: 3

11 Clamp

**4** Roll the first O-seal over the insertion tube.




- 5** Push the cone covering on the insertion tube. Fold the first half of the tensioning ring over the O-seal and the beaded edge. Push the second half over the O-seal and beaded edge and tighten both screws simultaneously (see Fig.: 4).


Legend for Fig.: 4

- 2 O-seal
- 3 Cone covering
- 4 Tensioning ring (2-piece)
- 5 Insertion tube

- 6** Roll the second O-seal over the insertion tube (see Fig.: 4).

 *The O-seal must not form any loops. Ensure an even, tight fit.*


- 7** Insert the insertion tube with the attached cone covering into the dowel flange. Fold the first half of the tensioning ring over the O-seal and the beaded edge. Push the second half over the O-seal and beaded edge and tighten both screws simultaneously (see Fig.: 5).

 *Loosen the screws to adjust the height.*

Legend for Fig.: 5

- 1 Dowel flange
- 2 second O-seal
- 5 Insertion tube

- 8** Put the profile sealing ring over the flange of the extension tube. Position the pipe section flush with the insertion tube. Fold the first half of the tensioning ring over the profile sealing ring and the beaded edge. Push the second half of the tensioning ring over the profile sealing ring and beaded edge and tighten both screws simultaneously (see Fig.: 6).

 *The O-seal must not form any loops.*

- *Ensure an even, tight fit.*
- *Without the attachment tube, the system height can be reduced by approx. 200 mm.*

Legend for Fig.: 6

- 4 Tensioning ring (2-piece)
- 6 Profile sealing ring
- 7 Attachment tube

- 9** Assemble 90° pipe elbows, 30° pipe elbows and adaptor piece for HRD-seal insert with the profile sealing rings and tensioning rings one after another (see Fig.: 7).

Legend for Fig.: 7


- 8 90° pipe elbow
- 9 30° pipe elbow
- 10 Adaptor piece

- 10** Align the pipe bends, insert the cable and install the cable seal (see installation instructions SKD/HRD -cable/pipe seal) (see Fig.: 8).

 *Tighten each screw against pivoting movements.*

Legend for Fig.: 8

- 3 Cone covering (height-adjustable)
- 4 Tensioning rings - tighten screws against pivoting movements
- 5 Insertion tube (height-adjustable)
- 12 Cable seal SKD...2G-Z/d (separate order to cable feed)

 *To avoid liquid (condensation) in the core drill hole and attachment tube, insulate on the side of the cover and hermetically seal or fit a second cable seal SKD...2G-Z/d in the covering drill hole.*

**Service telephone +49 7322 1333-0**

**Subject to alterations.**