GUTTER SYSTEM
STAL²
GALECO

GUTTER SYSTEM
STAL
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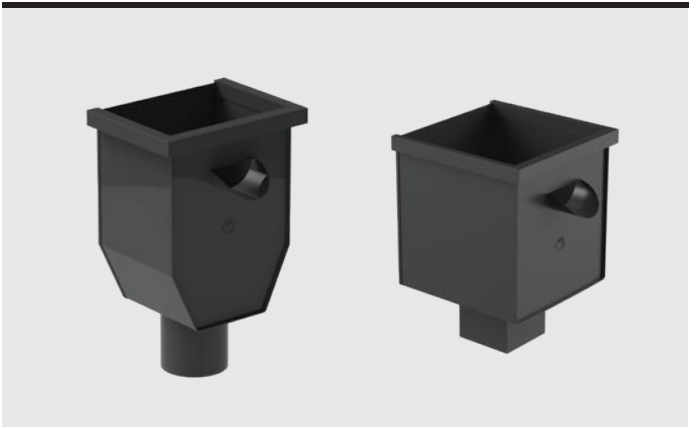
ROOF COVERING
DRAIN
GALECO

Installation instructions for hopper heads



1. Notes before installation

1.1 Galeco hopper heads are available in three different models dedicated to connecting to STAL system downpipes featuring round outlets with a diameter of 90 or 100 mm and STAL² system downpipes with square outlets with dimensions of 80x80 mm **(Fig. 1)**.

1.2. The components should not be installed at a temperature below 5 °C.

1.3. The components should be stored in the original collective packaging until installation.

1.4 All components should be stored in a dry place. Remove the protective film from the hopper head no later than 3 months from the date of purchase.

1.5 The components should be cut with sheet metal shears. When cutting steel components, do not use high-speed tools because the high temperature generated during cutting and the filings produced can damage the protective coating of the sheet and its core.

1.6. Galeco hopper heads are equipped with an emergency overflow opening on their front face. Galeco hoppers are also available in version without emergency overflow.

1.7. Seals should be made using the sealing adhesive.

1.8. The hopper head is a universal component and can be used as gravity drainage in many ways. The recommendations described in the manual apply only to the most common applications, i.e.:

a) a hopper head connected to an attic gully and downpipes as flat roof drainage **(see Section 2)**.

b) a hopper head used as the equivalent of a roof outlet connecting the roof gutters to the downpipe **(see Section 3)**.

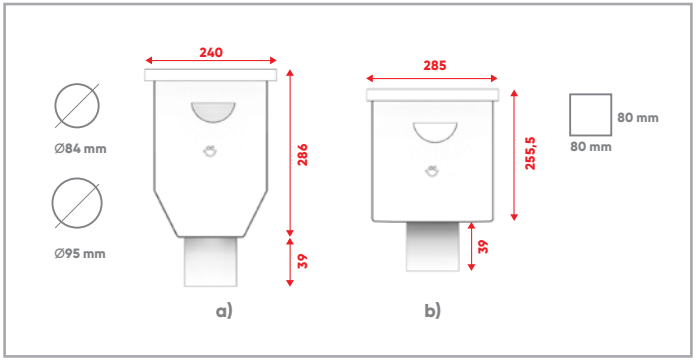


Fig. 1 a) hopper head for a round pipe Ø90, Ø100,
b) hopper head for an 80x80 square pipe.

2. Installation of the hopper head as a component of a flat roof drainage system – water drainage from the extension of the downpipe connected to attic drainage (Fig. 2):

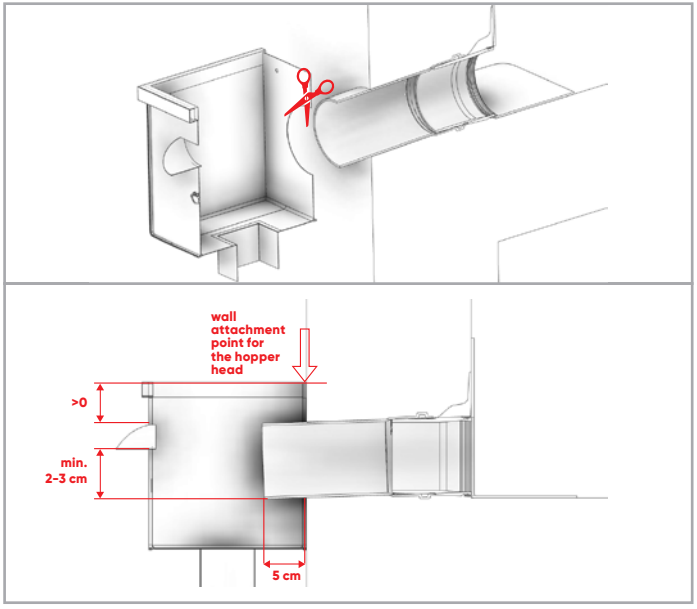


Fig. 2 Hopper head connected to an attic gully.

2.1. Designate the location where the pipe leading out of the roof outlet will connect to the hopper head.
To do this:
- cut a hole in the rear wall of the hopper in a shape matching the downpipe connected to the downpipe coming from the roof outlet. The bottom of the pipe installed in this way should be at a height of not less than 2-3 cm from the bottom of the overflow opening.
- the downpipe, which is an extension of the roof outlet, should enter the hopper to a depth of at least 5 cm.

2.2 Make two horizontal holes in the back wall for the mounting pins.
Note: the mounting pins should be positioned higher than the emergency overflow opening (NOTE: make sure the length of the pins is appropriate for the thickness of the insulation layer). The pins can also be placed in the folded coiled flange on the top of the hopper head **(Fig. 3)**.

2.3 Attach the hopper to the pins mounted in the wall. Seal all openings in its back wall with a sealant.

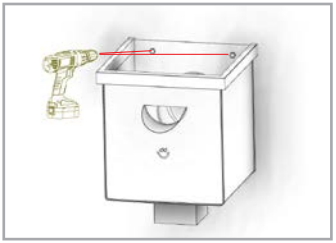


Fig. 3 Making holes for the mounting pins in the rear wall of the hopper head.

3. Installation of the hopper head as a gutter drain.

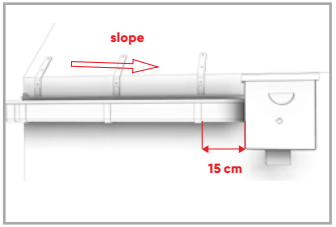


Fig. 4 Hopper head serving as a gutter outlet.

3.1 When positioning the brackets, remember that for a hopper head serving as a gutter outlet, the slope of the gutters, if any, must run towards the hopper. Brackets adjacent to the hopper should not be placed more than 15 cm away from it **(Fig. 4)**.

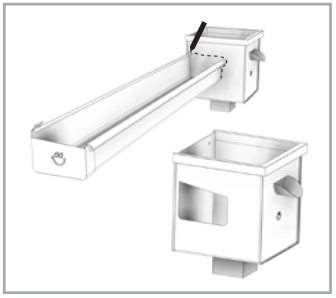


Fig. 5 Cutting a hole in the side wall of the hopper head shaped to fit the gutter.

3.2 In the central part of the side walls of the hopper, cut holes shaped to match the cross-section of the respective gutter and bend their edges inward into the hopper **(Fig. 5)**.

3.3 Mount the hopper to the wall using screws. Note: the screws should be placed in the rear wall of the hopper above the level of the emergency overflow opening and gutters **(point 2.2)**.

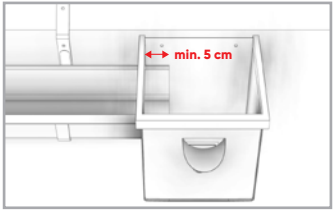


Fig. 6 Inserting the gutter into the hopper head.

3.4 3.4 Insert the gutters into the brackets and the hopper head. Each gutter should extend into the hopper to a depth of at least 5 cm **(Fig. 6)**.

3.5 Seal the holes in the back wall of the hopper.

4. Connecting the hopper head to the downpipe

4.1 In the STAL² system, the hopper head should be connected to the downpipe using a socket **(Fig. 7)**. For hoppers with a round outlet, direct connection without a socket is permitted.

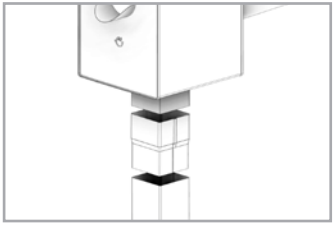


Fig. 7 Connecting the STAL² system hopper head to the downpipe using a socket.

4.2 The first clamp on the downpipe should be attached near the hopper head, no more than 20 cm from its bottom **(Fig. 8)**.

4.3 Fix the screws into the facade using lengths suited to the thickness of the building insulation, maintaining a maximum spacing of 1.8 m between them.

4.4 Attach clamps onto the screws.

4.5 Place the downpipes into the clamps, connecting them with the socket.

4.6 Tighten the clamps on the pipe without overtightening.

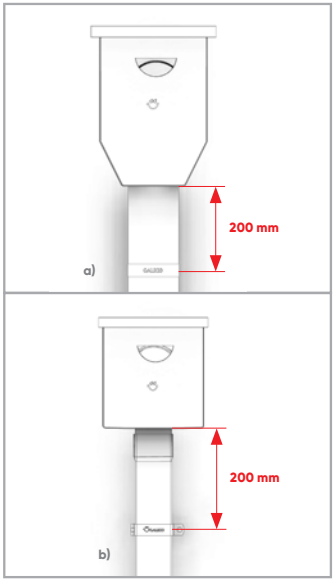


Fig. 8 Connecting the downpipe to the wall a) STAL system, b) STAL² system.

5. **The installation can be finished in any manner, provided it complies with the installation instructions for downpipes.**

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