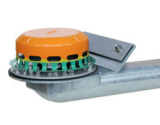


## Installation instructions

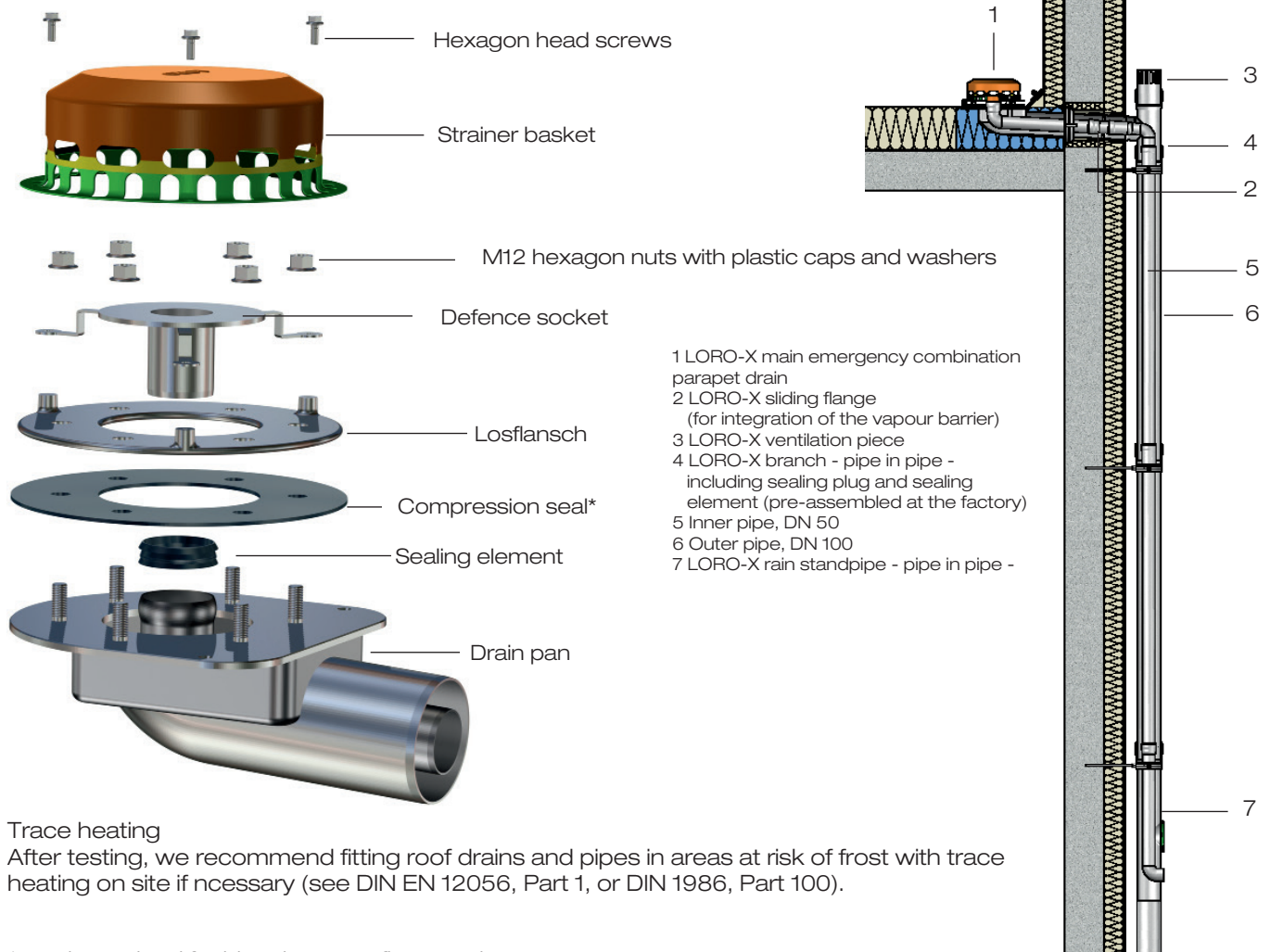
### LORO-X main emergency combination parapet drainage, Series 88

with clamping flange, made of steel, hot-dip galvanised,  
for roof sealing membranes made of bitumen or plastic, in accordance  
with DIN EN 1253

#### System-overview

|                                                                                      | LORO-X-main emergency combination parapet drain                                                                 |                                                                                                                 |                                                                                                                  | LORO-X sliding flange<br>to integrate the vapour barrier                                                          |                                                                                                                   |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
|                                                                                      | without upstand                                                                                                 | 45° upstand                                                                                                     | 90° upstand                                                                                                      | made of bituminous                                                                                                | made of plastic                                                                                                   |
| with clamping flange for bituminous and plastic waterproofing membranes<br>DN 100/50 | <br><a href="#">13506.100X</a> | <br><a href="#">13605.100X</a> | <br><a href="#">13607.100X</a> | <br><a href="#">13235.100X</a> | <br><a href="#">13236.100X</a> |

#### Aufbauschema

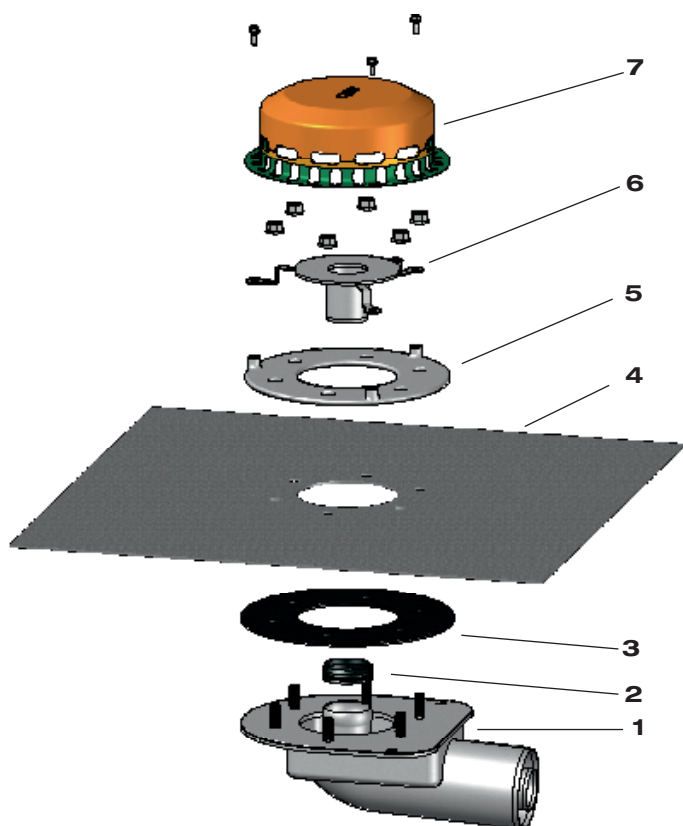


Trace heating

After testing, we recommend fitting roof drains and pipes in areas at risk of frost with trace heating on site if necessary (see DIN EN 12056, Part 1, or DIN 1986, Part 100).

\* can be omitted for bituminous roofing membranes.

## 1. Integration of the LORO-X main emergency combination parapet drain into the roof structure



Screw the sieve basket to the loose flange using three enclosed fastening screws. Hand tighten to a maximum for 5 Nm.

Coat the outlet end of the weir nozzle with lubricant and insert it into the sealing element of the drain body.

Screw the weir connector to the loose flange using 3 of the enclosed hexagon nuts M 12 and washers.

Tightening torque: 20Nm (bituminous roof sealing membrane) or 30 Nm (plastic roof sealing membrane)

Screw the loose flange to the drain body using 3 of the enclosed hexagon nuts m 12 and washers.

Tightening torque: 20Nm (bituminous roofing membrane) or 30 Nm (plastic roofing membrane). Place the enclosed plastic hexagonal caps on the threaded bolts. Remove any protrusions of the sealing layer into the inlet area.

**In accordance with the technical rules for waterproofing (flat roof guidelines, January 2026 edition) the nuts of the flange connections must be tightened 3 times**

Use the loose flange as a hole template for pre-punching the roof sealing membrane. The compression seal must be placed on the fixed flange under the roof sealing membrane. Bituminous waterproofing must be applied in two layers in the clamping area.

**The processing guidelines of the roofing membrane manufacturer must be observed.**

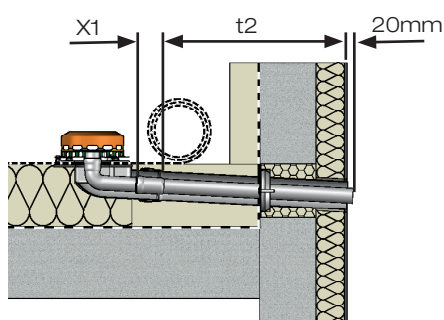
If a second compression seal is required under the loose flange, this can be made on site from the same material as the roof sealing membrane. The loose flange can also be used as a template here. Alternatively, a second compression seal can be used, Art.no. 21810.100X, can be requested from LOROWERK

Only for **plastic roofing membranes**. The compression seal is not required for bituminous roofing membranes.

Insert the LORO-X sealing element into the socket of the drain body and coat the entire surface with LORO-X lubricant.

Cut out the thermal insulation on site according to the contours of the drain body. Insert the drain body into the thermal insulation.

## 2. Installing the pipework on the roof



### 2.1 Length of inner pipe DN 50:

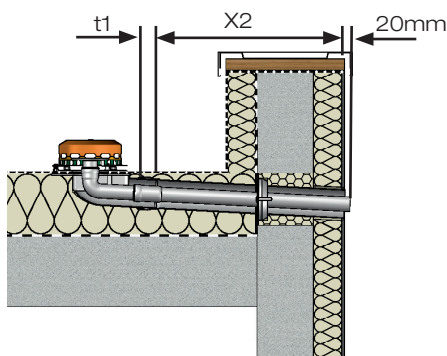
Measure the distance between the outlet end of the inner drain pipe (DN 50) and the outer edge of the facade.

**Tube length:  $x1 + t2 + 20 \text{ mm}$**

The end of the inner pipe must protrude at least 20 mm beyond the outer edge of the facade.

Insert the LORO-X sealing element into the inner pipe socket. Push the inner pipe onto the outlet end using LORO lubricant.

**Attention: Roll back the roof sealing membrane, do not stick it down yet!**



### 2.2 Length of outer pipe DN 100:

Measure the distance between the outlet end of the outer drain pipe (DN 100) and the the outlet end of the inner pipe (DN 50).

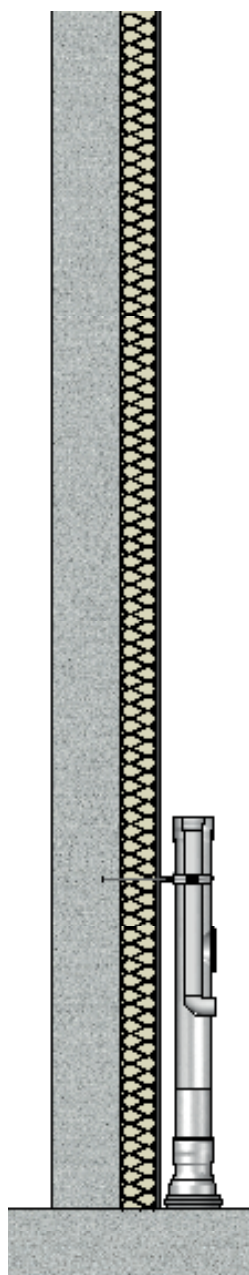
**Tube length:  $x2 + t1 - 20 \text{ mm}$**

The outlet end of the outer pipe (DN 100) must be 20 mm shorter than that of the inner pipe (DN 50).

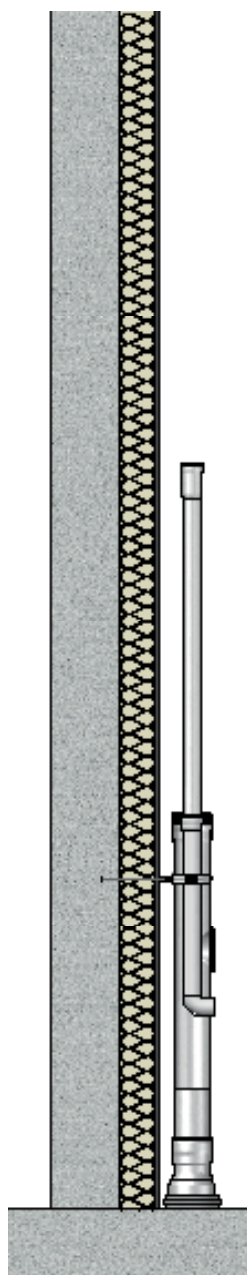
Insert the LORO-X sealing element into the outer pipe socket. Push the outer pipe onto the outlet end of the outer drain pipe using LORO-X lubricant.

Provide the outer pipe with sufficient thermal insulation in site and weld the roof sealing membrane manufacturer.

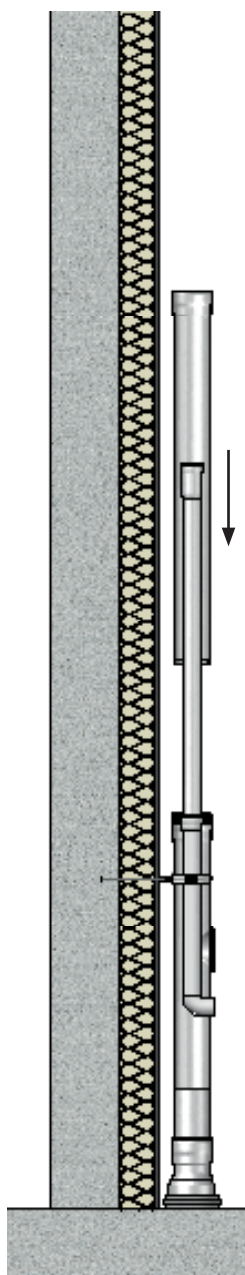
### 3. Montage der Falleitung



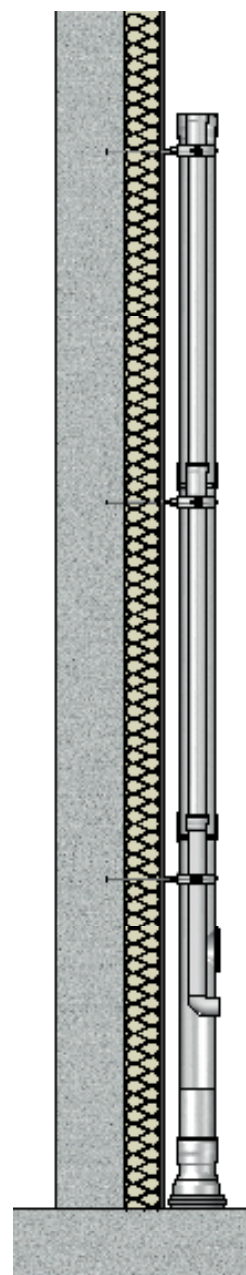
**3.1**  
Installation must be carried out from bottom to top. Connect the LORO-X main emergency combination rain standpipe to the base pipe. Fix the downpipe below the socket with a LORO-X pipe clamp.



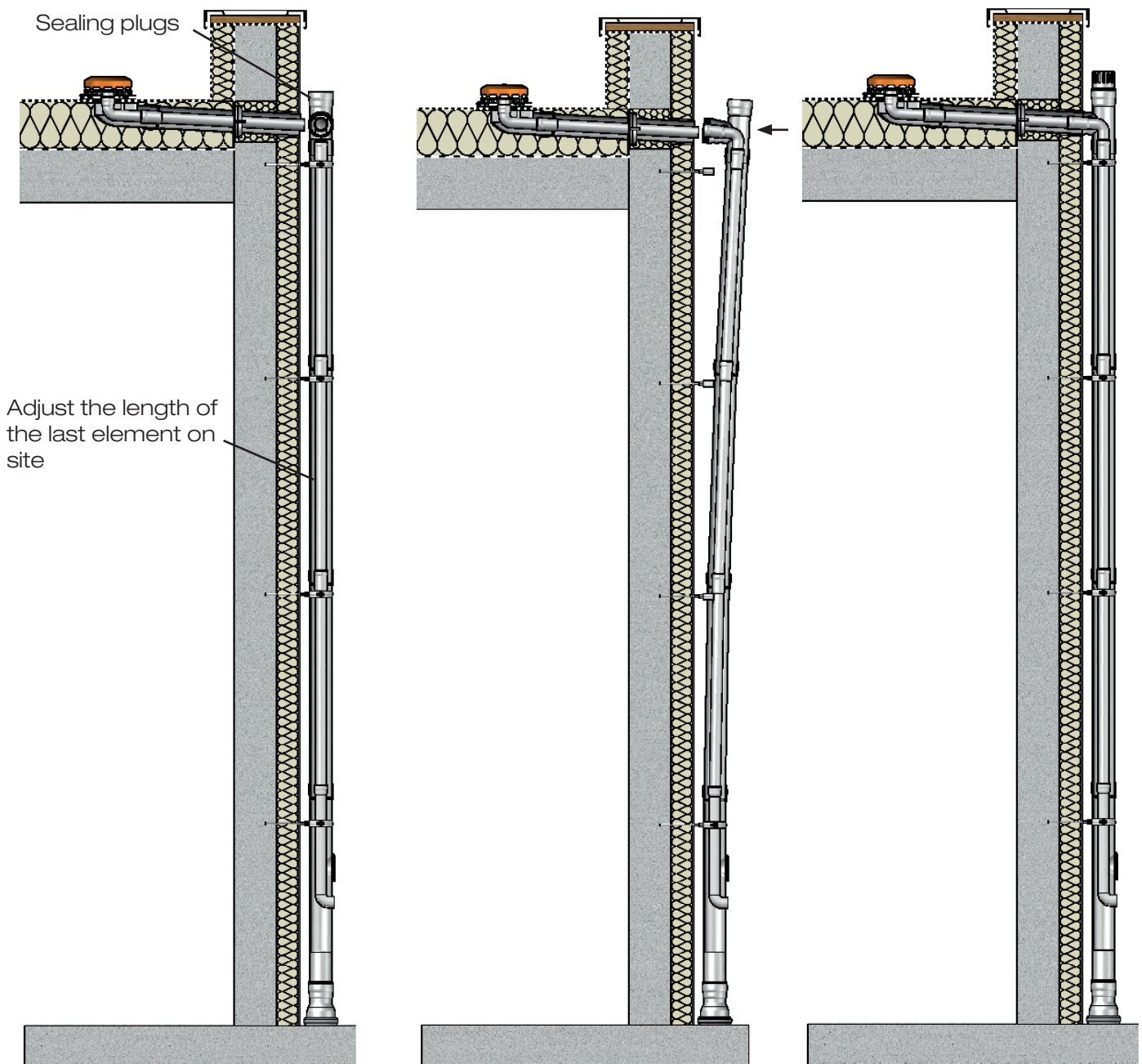
**3.2**  
Insert LORO-X sealing elements into the rain standpipe inner pipe socket (DN 50) and rain standpipe outer pipe socket (DN 100). Coat the inside and outlet ends of the inner pipe of the downpipe with LORO-X lubricant. Push the inner pipe of the downpipe into the rain standpipe inner pipe sleeve.



**3.3**  
Coat the end of the outer pipe of the downpipe with LORO-X lubricant. Push the outer pipe of the downpipe over the inner pipe into the rain standpipe outer pipe sleeve. Secure the downpipe below the sleeve with a LORO-X pipe clamp.



**3.4**  
Repeat procedure 3.2 - 3.3 until the parapet break-through is reached. Fix the pipes of the downpipe below the socket with LORO-X pipe clamps.



#### 3.5

Length of the fitting pieces for outer pipe, taking into account of the LORO-X "pipe-in-pipe" branch. The sealing plug is already inserted in the DN 50 inner pipe socket at the factory. Make the socket connections of fitting pieces and double branch as described.

#### 3.6

Apply LORO-X lubricant to the end of the pipe on the roof. LORO-X sealing elements DN 50 and DN 100 into the sockets of the LORO-X. Insert the "pipe-in-pipe branch and coat with LORO-X lubricant. Loosen the LORO-X pipe clamps. Slide the downpipe with the inner pipe socket (DN 50) of the LORO-X "pipe-in-pipe" branch onto the protruding inner pipe of the roof connection pipe at a slight angle.

#### 3.7

Fix the downpipe under each socket connection with LORO-X pipe clamps DN 100. Place the LORO-X ventilation piece on the downpipe.

**Wichtig:** Einbau zusätzlicher Bögen nur nach Rücksprache mit dem LOROWERK.  
Zu Wartungszwecken muss vor jeden Bogen ein Reinigungsrohr 00550.100X gesetzt werden.