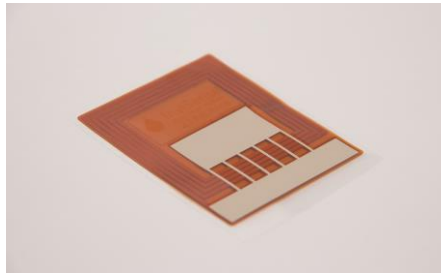


Installation instructions InviSense moisture sensor



Quick Guide	p. 2-3
Screeed and concrete	p. 4
Placement suggestions	p. 5 – 13
Suggested measurement interval	p. 14

Quick Guide

- Place sensors where there is a risk for moisture damage, e.g. around the floor drain, under leadthroughs and by drains.
- Avoid placing the sensors closer than 60mm from metal. Detailed information can be found on our web page.
- Install the sensors in places that will be reachable by the scanner after the equipment and furnishing has been placed in the room.
- It is important that the underlying material is thoroughly dried out.
- Document where the sensors have been installed, e.g. with a photo or markings on a drawing.

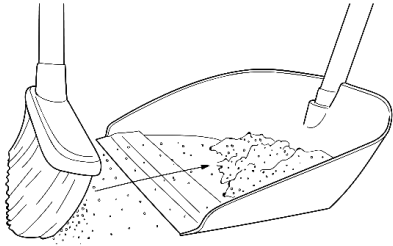
invisense.se/downloads

info@invisense.se

+46 13 10 10 35

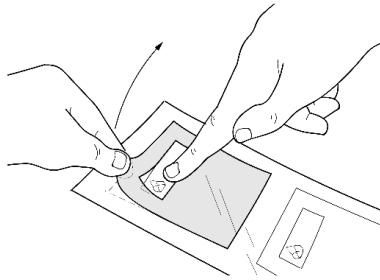
Application

1



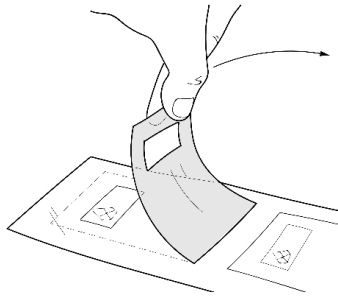
Clean the surface

2



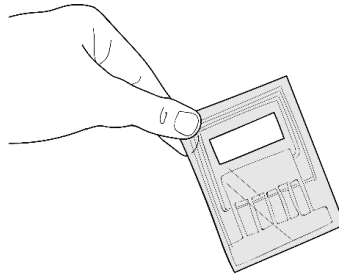
Remove the sensor from the carrier

3



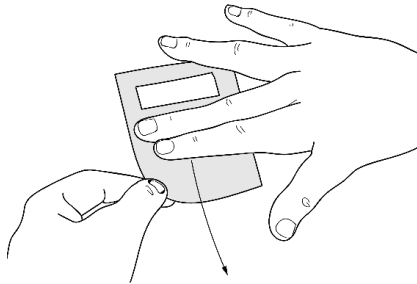
The InviSense logo should remain on the carrier

4



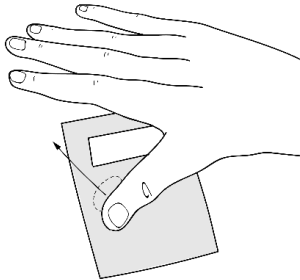
Place the sensor in the chosen location

5

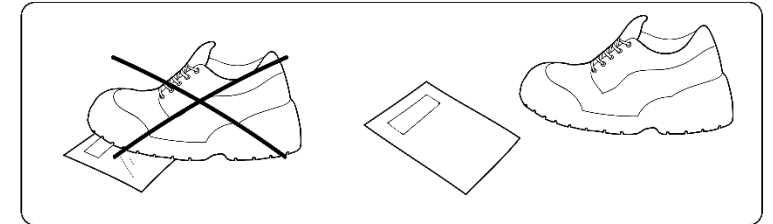
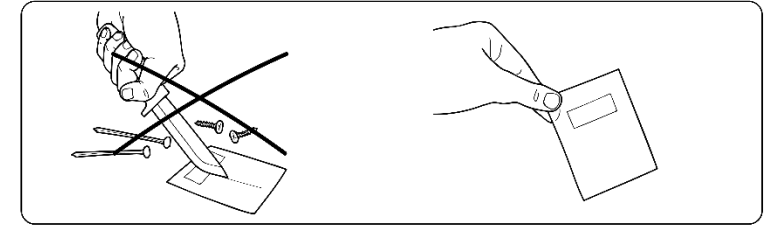
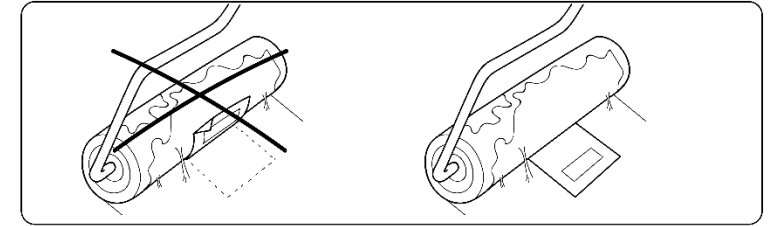
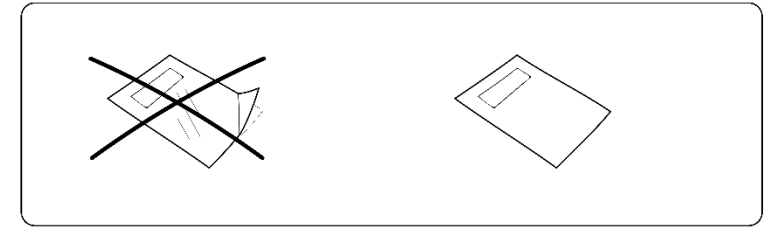


Apply the sensor to the surface

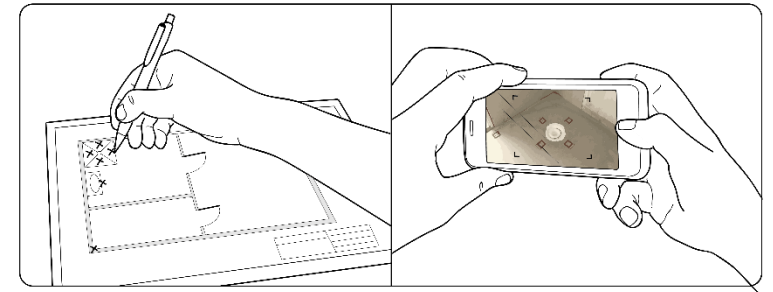
6



Remove any air bubbles

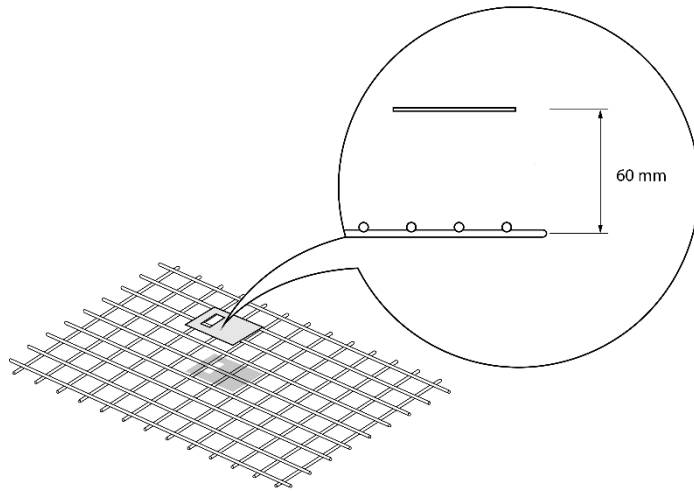


Draw the placements on a paper drawing or photograph, transfer to InviSense Cloud.



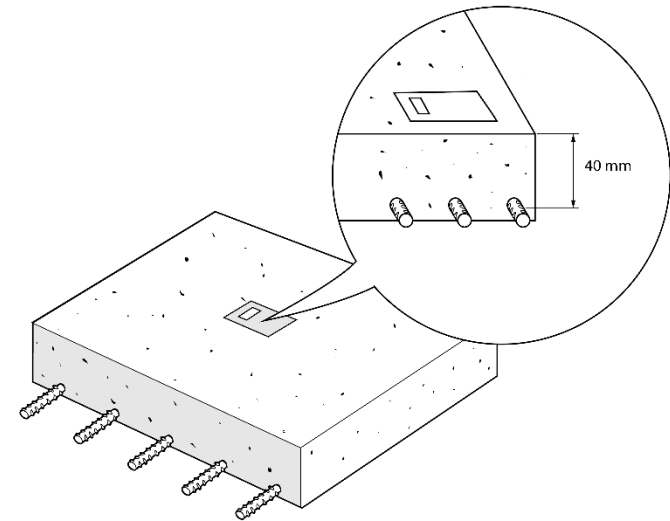
Installation on screed and concrete

- When installing on screed or concrete it is important that the material has been allowed to dry properly before the sensor is installed.
- In installations where the sensor comes in contact with two component adhesives, please contact us for more information.



Where there is thin stainless steel reinforcement in the levelling compound:

For this type of reinforcement, the sensor must be at least 60 mm away to function. In this case we recommend to either use a fibre reinforcement instead, or cut 100 x 100 mm holes in the reinforcement in the areas where the sensors are to be mounted



Reinforced concrete:

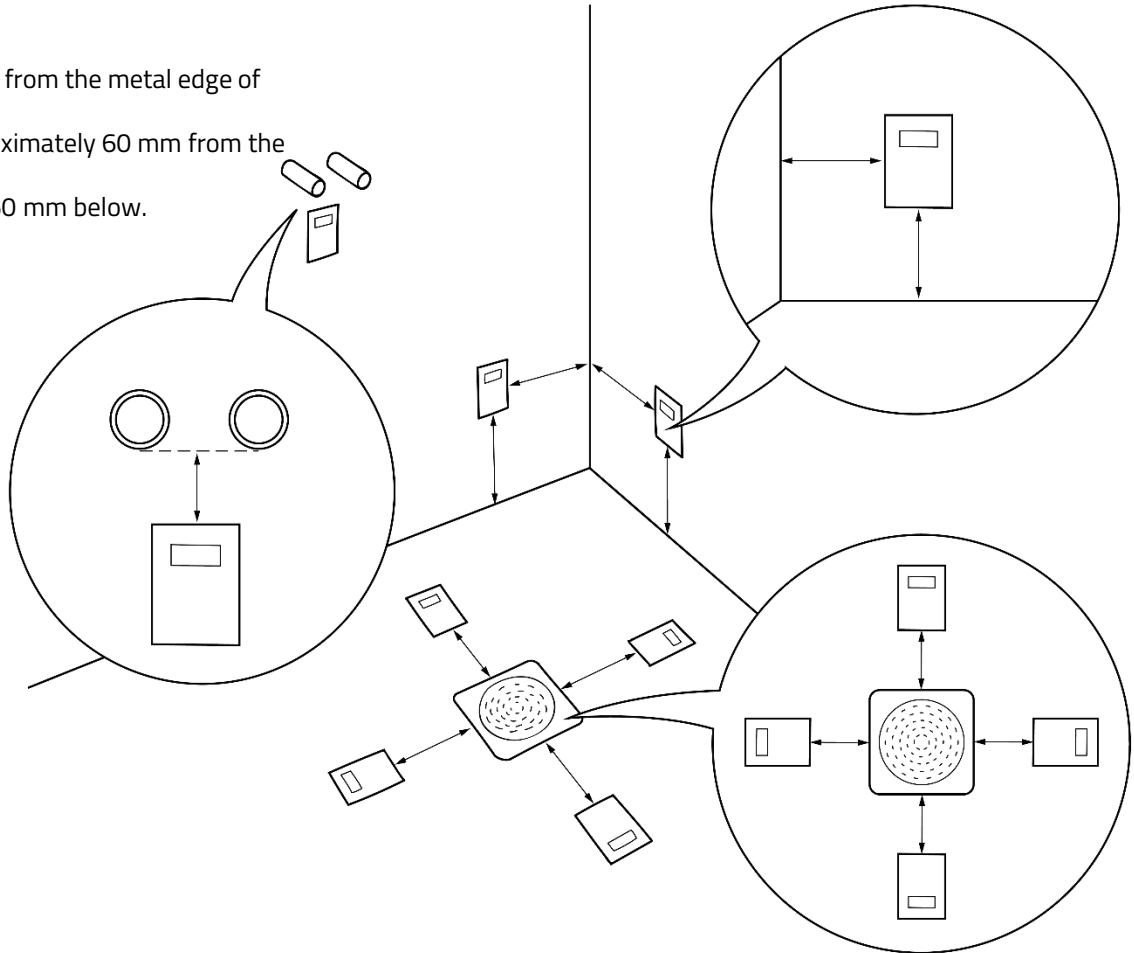
- When reinforced as above, the sensor should be 40 mm from the reinforcement.

Placement suggestions

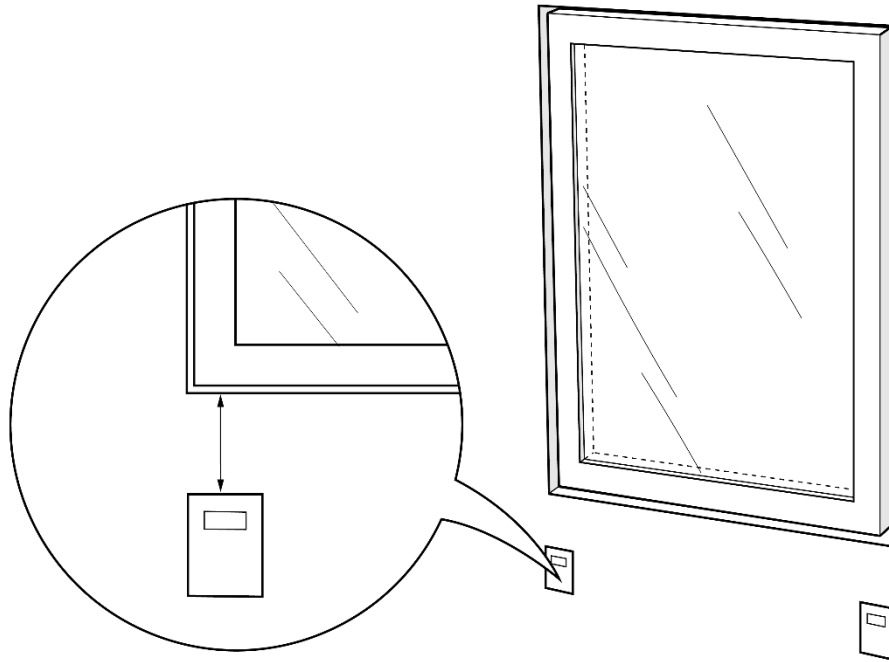
In wet areas

In wet zone 1, the sensors are placed as described:

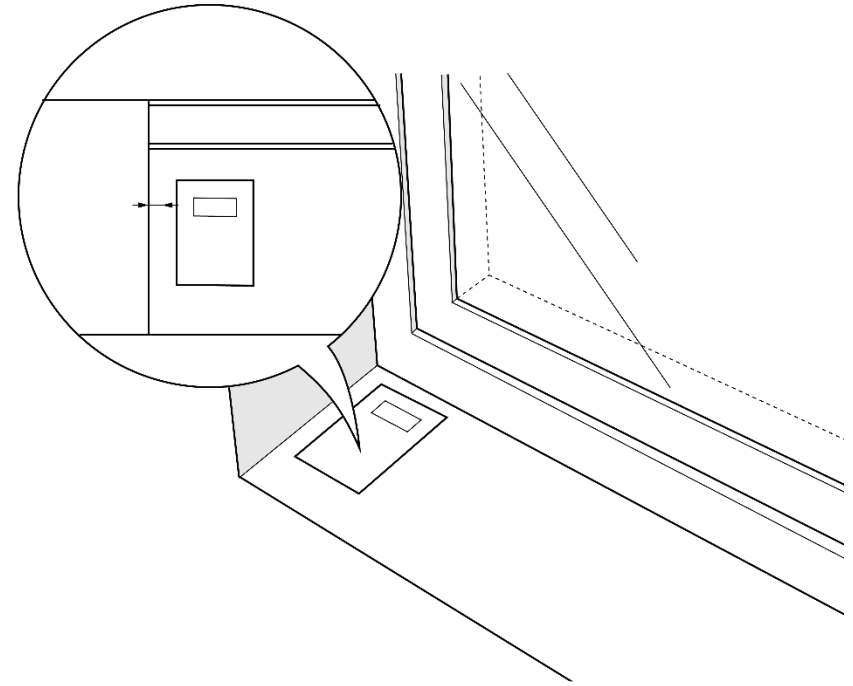
- Four sensors are placed around the wells, around 60 mm from the metal edge of the floor well.
- In the corner of the shower, the sensors are placed approximately 60 mm from the floor and out from the corner.
- During operation, the sensors are placed approximately 60 mm below.



Windows in bathrooms

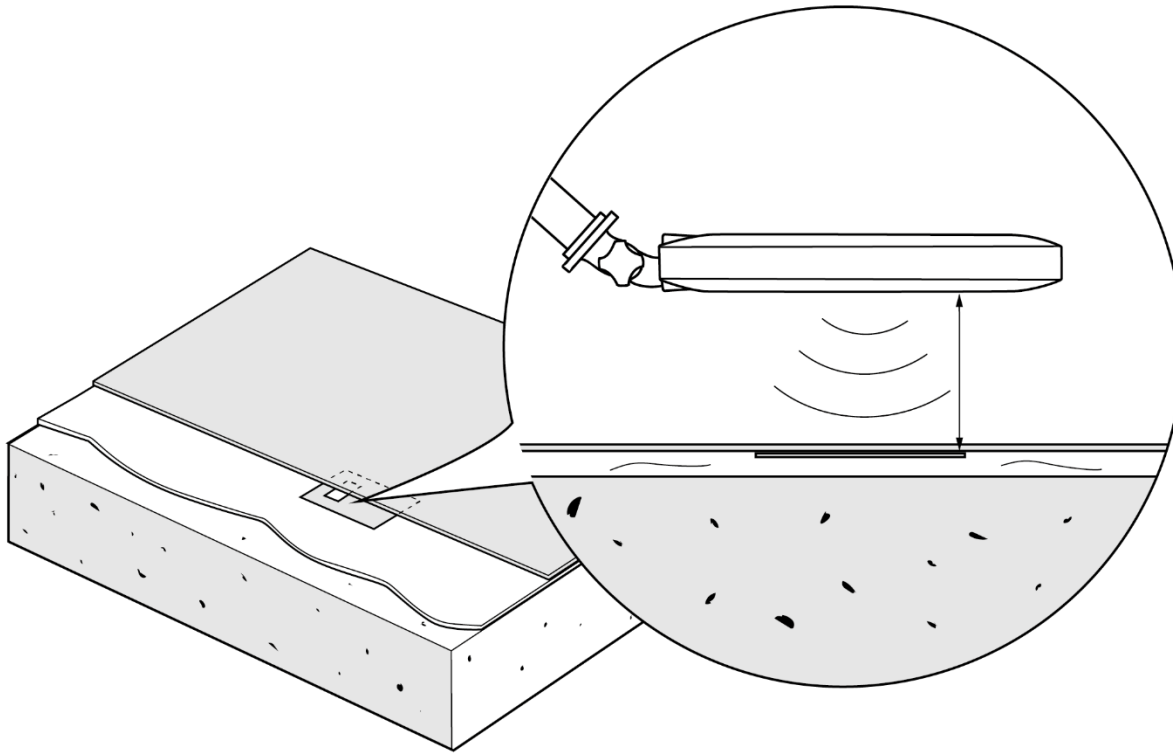


The sensors are placed under windows before proofing layers are glued. Placed directly underneath where the feed will sit.



The sensors are placed under windows before proofing layers are glued. If there is a niche under the window, they are placed as shown in the picture.

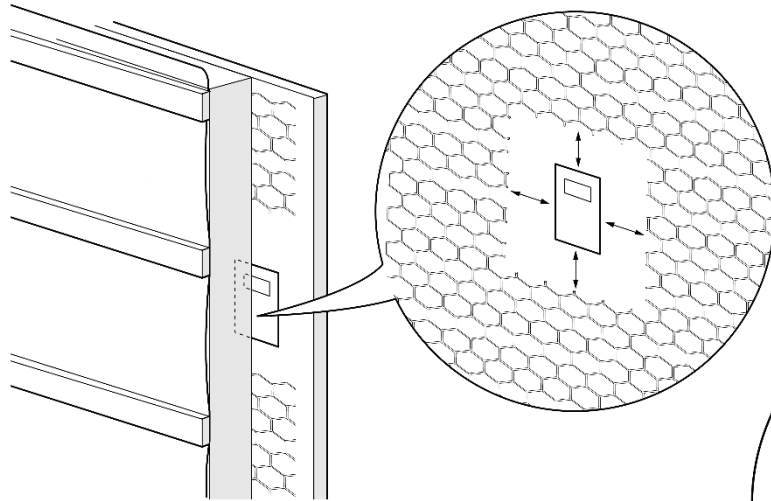
Sensor application under plastic mat



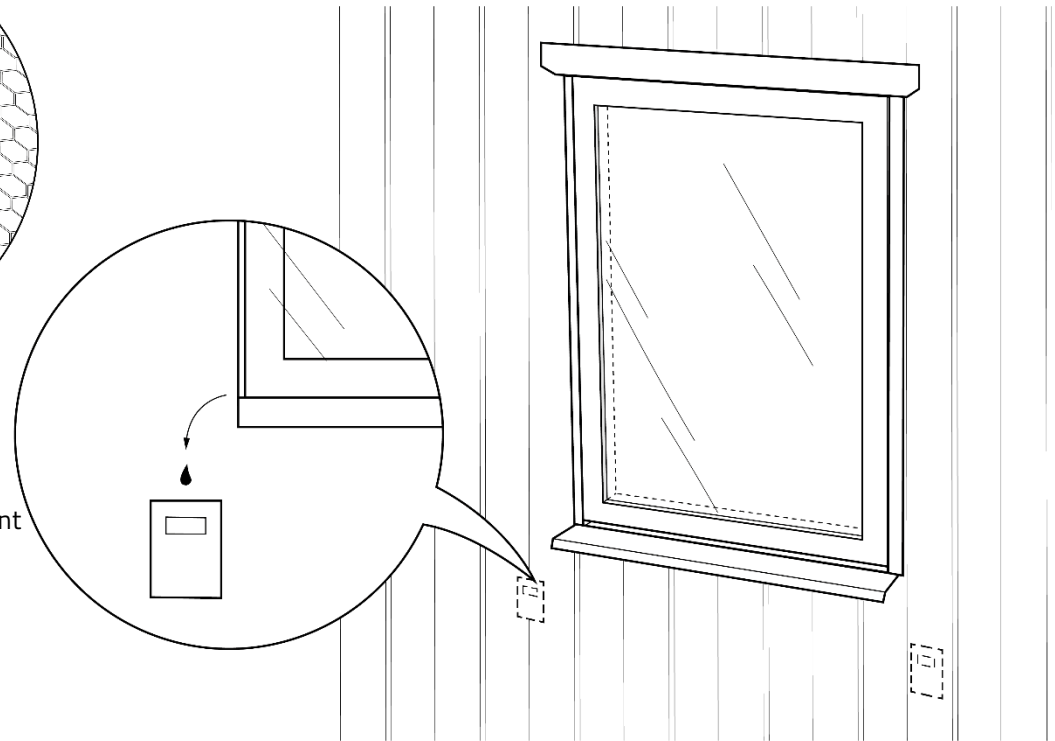
Mount the sensor underneath the plastic mat. The plastic mat is then applied to the correctly dried out surface.

- When installing on screed or concrete it is important that the material has been allowed to dry properly before the sensor is installed.
- In installations where the sensor comes in contact with two component adhesives, please contact us for more information.

Facade



The sensors are placed inside the window pane. If the facade material is thickened with a metal reinforcement, the reinforcement must be cut and possibly replaced with a non-metallic reinforcement material.

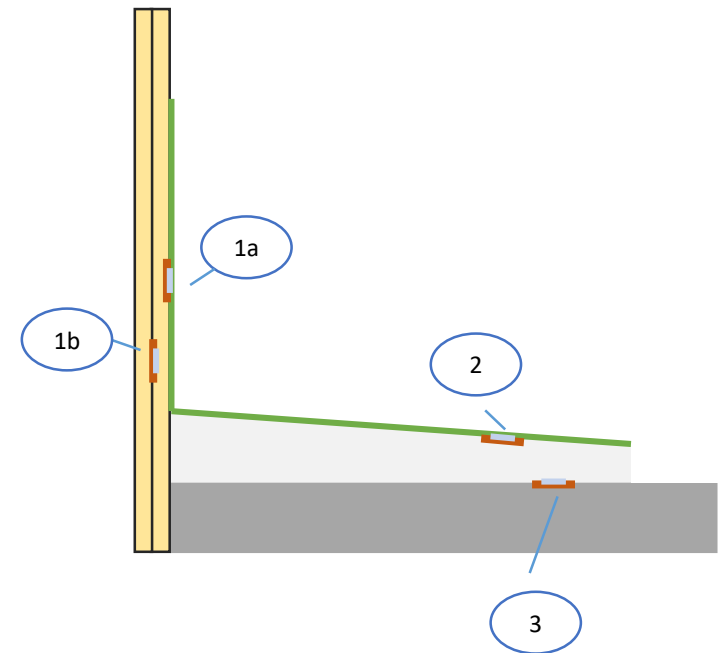


To measure leakage at windows, the sensors are mounted on the window pane before mounting the facade.

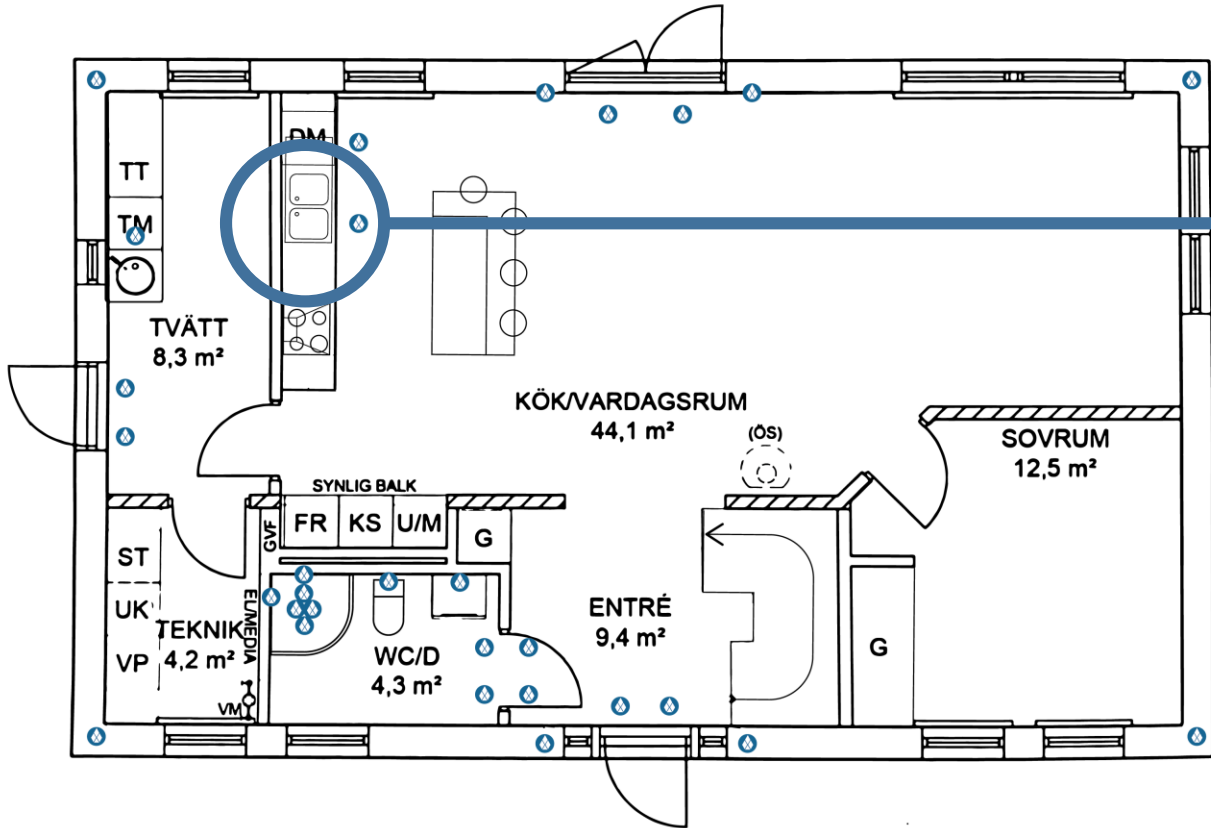
The sensors should be mounted approximately 60 mm from any steel bars.

Installation options

- 1a) Between waterproofing and board materials
Measures the moisture level in the wall material behind the waterproofing
- 1b) Between board materials and plywood
Option to alternative 1a, measures in a similar way
- 2) Between screed and waterproofing
Requires thoroughly dried out underlying material
- 3) Between concrete and screed
Reacts faster to leakage to the screed



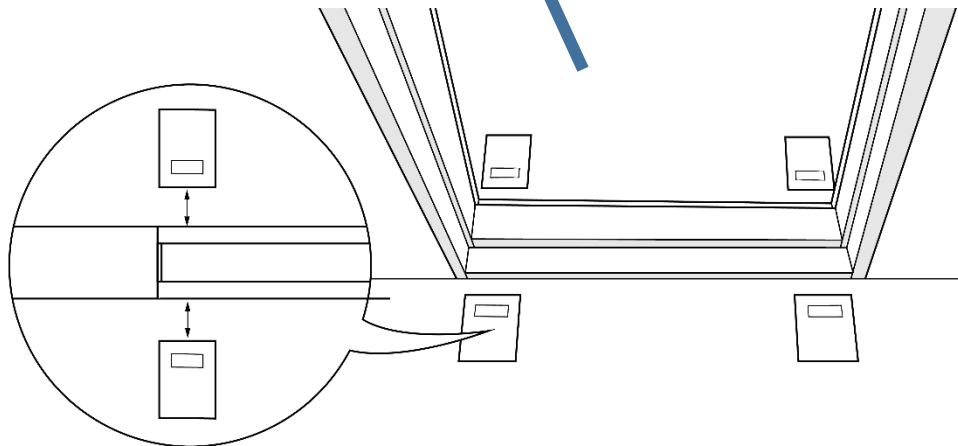
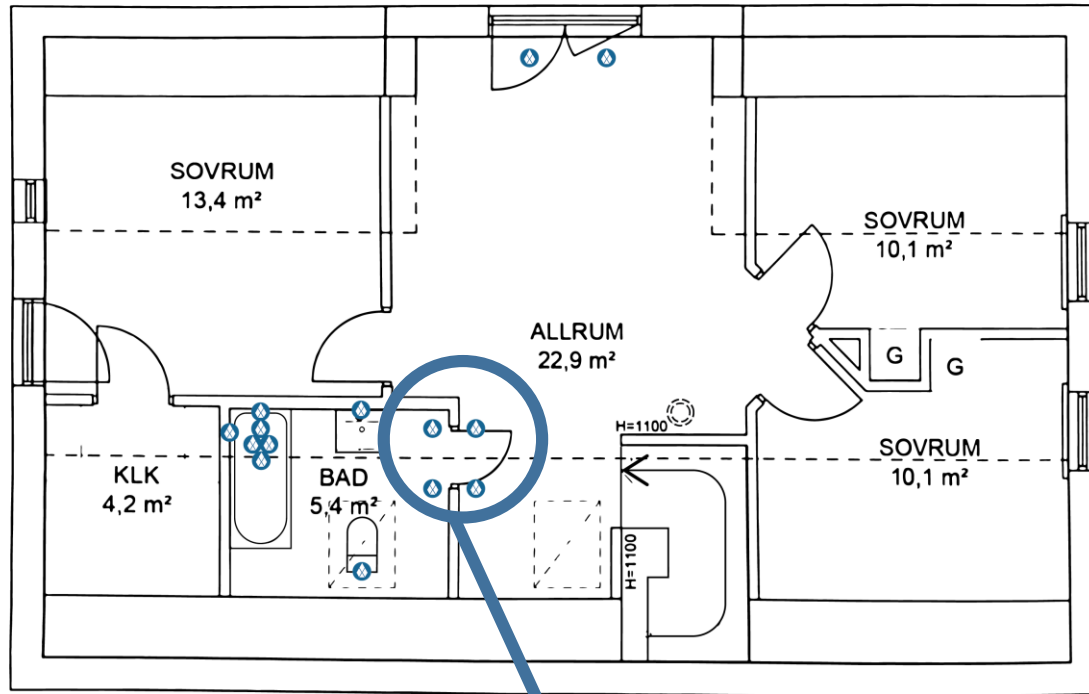
Overview house



This is an overview of the placement in a normal 1 ½-storey house. Approximately 40 sensors are required to cover all risk areas.

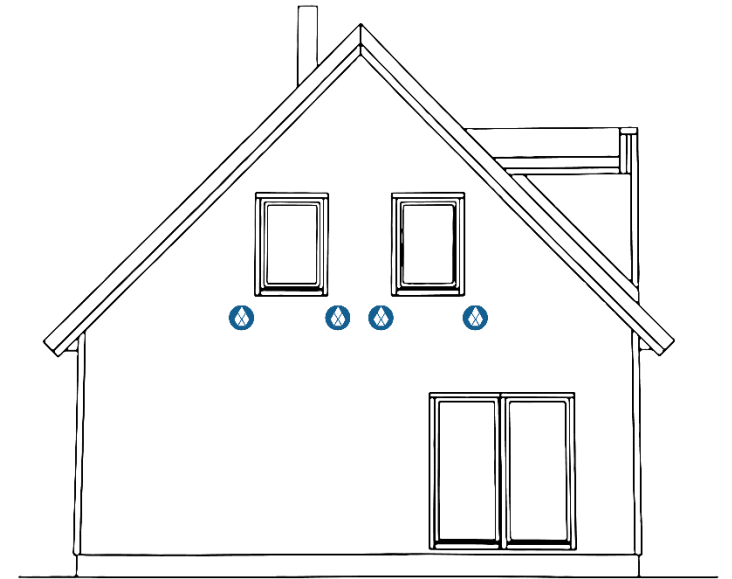
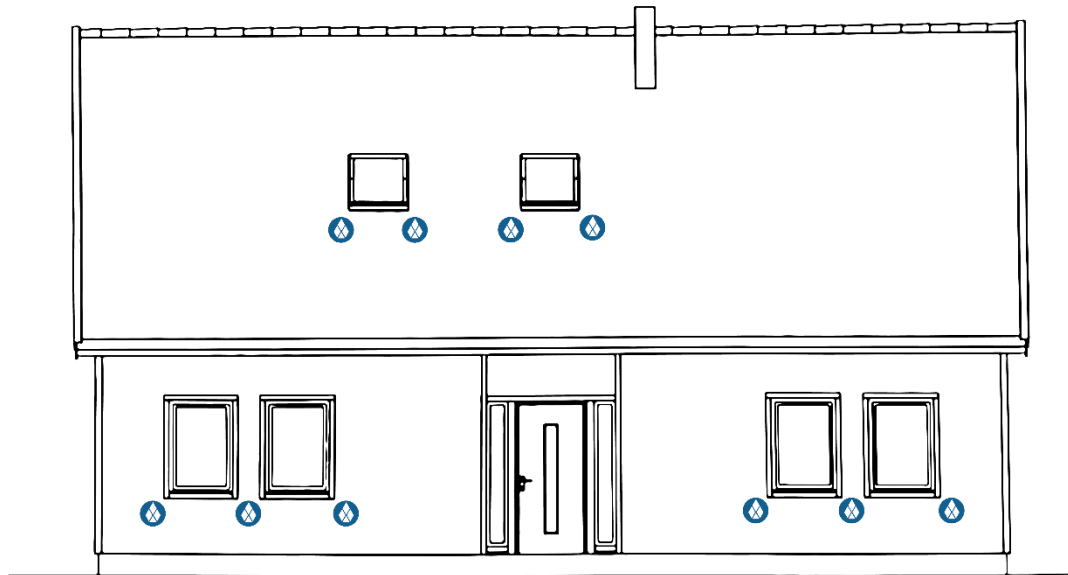
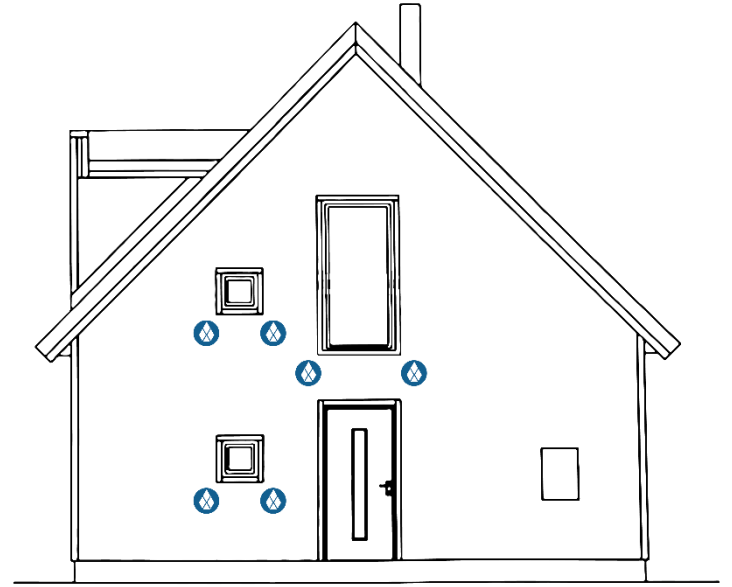
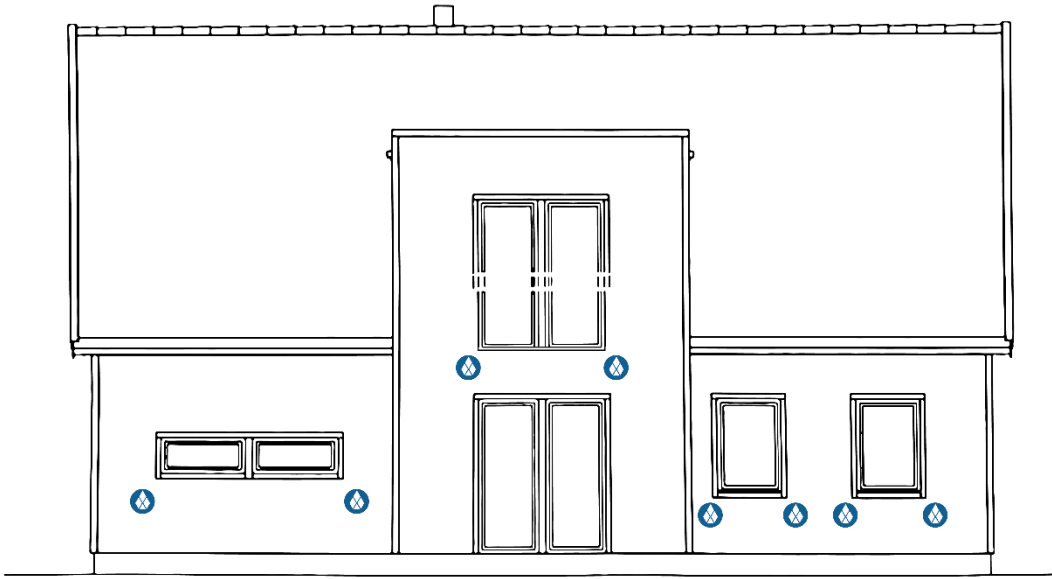
In kitchens, the sensors are placed at all locations where there is a danger of drainage/creeping water. They are placed before laying floor materials.

Thresholds



At thresholds, two sensors are placed on the inside of bathroom, balcony and veranda doors. In bathrooms, two sensors are also placed outside the bathroom to measure moisture if water should splash or run out, which could contribute to black mold.

Overview facade



Suggested measurement interval

To evaluate measured values from our sensors we recommend that each sensor is measured on different occasions, see table below.

Occasion	Time after installation	Reason
Installation	About 1 day	Register the initial value
Final inspection		Ensure correct drying of e.g. construction moisture
Warranty inspection	About 2 years	Ensure correct function of waterproofing
Management	2+ years	Find moisture damage