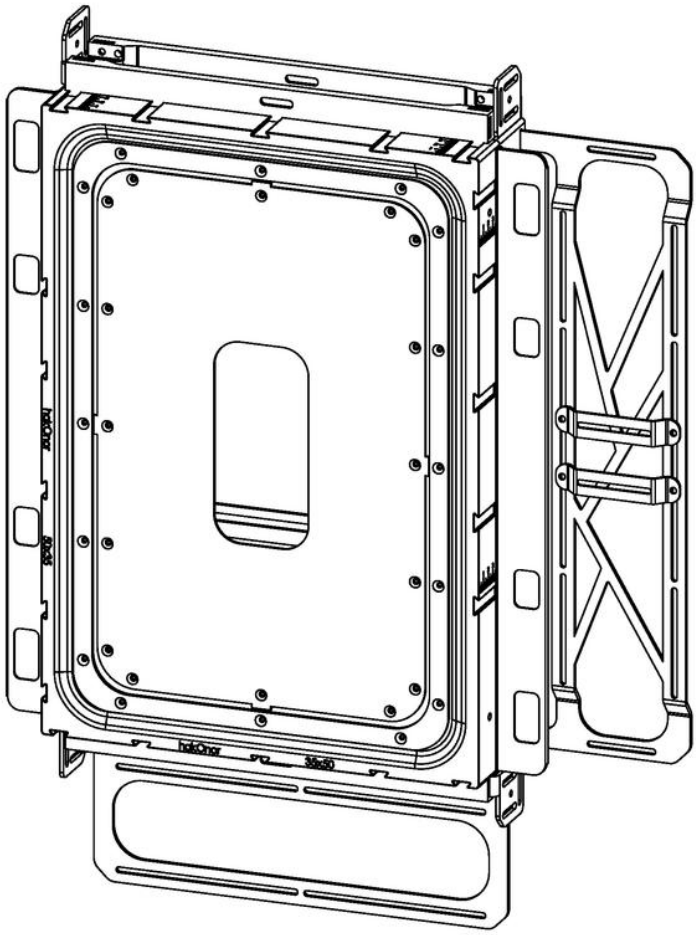
User Manual

Hakonor built-in box · 35×35 · 50×35 · 35×50 cm



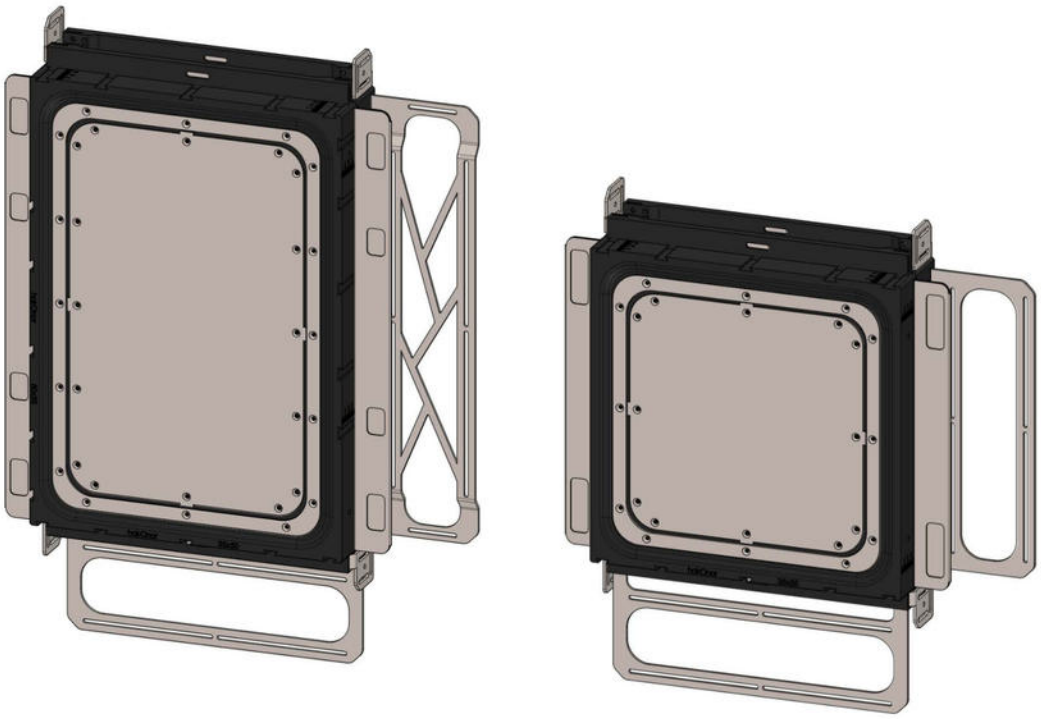
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ABOUT THE PRODUCT

Easy to install. Easy to maintain.

Hakonor is a leak-protection built-in box for concealed mixer taps and pipe-in-pipe systems. It comes in three sizes and is designed for easy installation and flexible adaptation in both new and existing buildings. The transparent rear cover and adjustable mounting rails offer unique service possibilities — without demolishing the bathroom.



SIZES	**35×35 · 50×35 · 35×50 cm**
WALL THICKNESS	**0–35 mm (wallboard without tiles)**
STUD SPACING	**60 cm c/c (adjustable)**
PIPE-IN-PIPE	**18–25 mm protection tubes**
MEMBRANE	**Liquid-applied & sheet membranes**
MATERIAL	**PP+GF20, PA66+GF30, stainless steel**

CONTENTS

What's inside

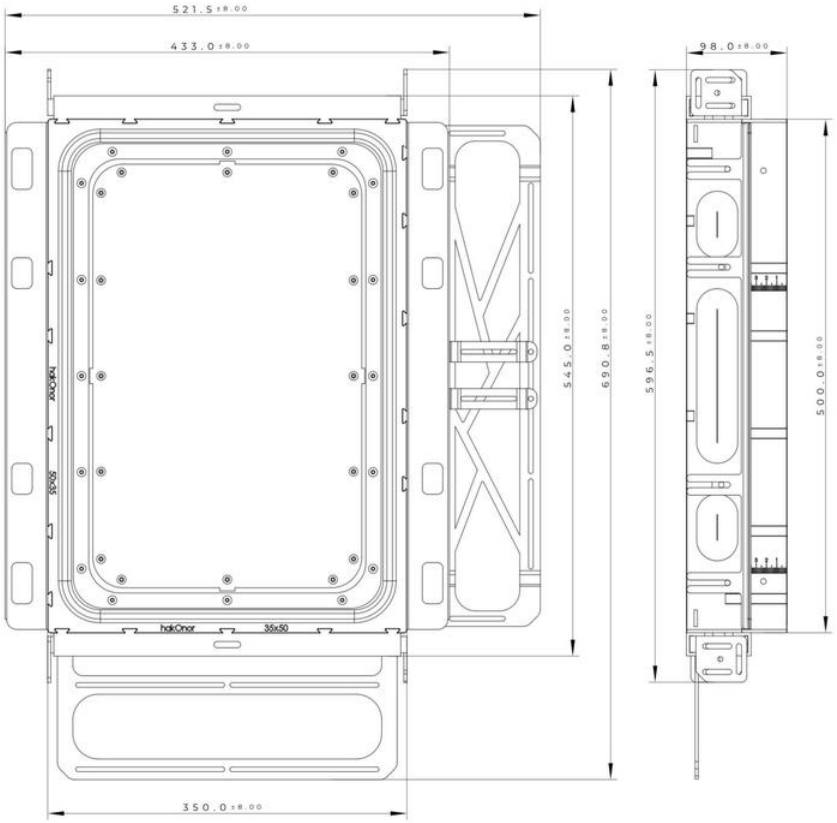
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01 · PRODUCT OVERVIEW

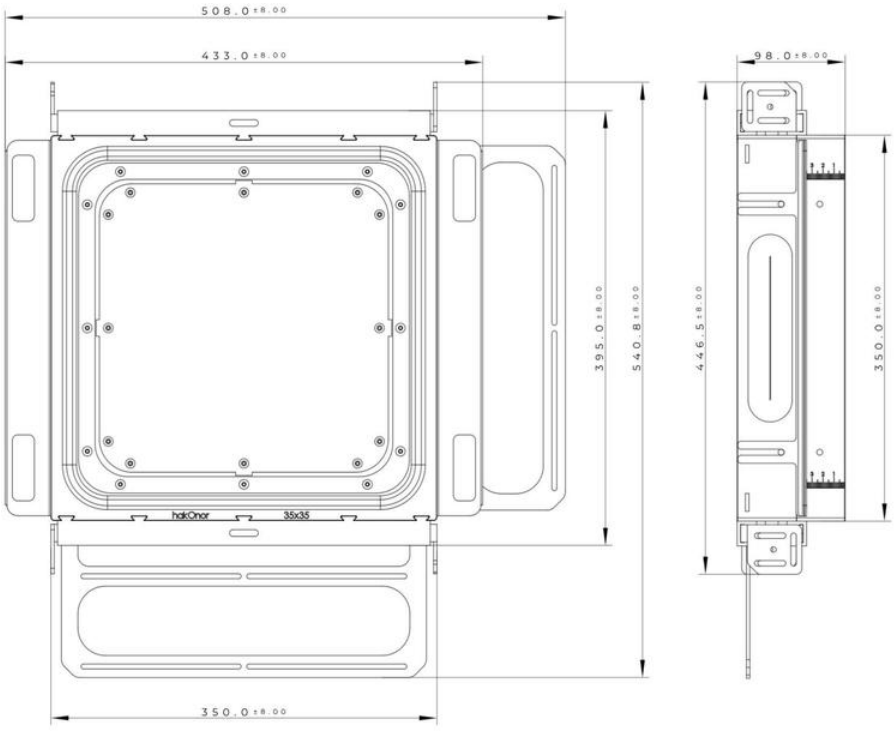
Technical dimensions

Two main sizes with the same mounting system and the same sealing principle. The 50×35 size is available in horizontal- and vertical-mount versions; all membrane-connection components are identical.

50 × 35 cm



35 × 35 cm



02 · COMPONENTS

Parts list

All parts are factory-mounted and individually replaceable. Spare parts are ordered from Hakonor using the article number (HN…) below.

.	Picture	Name	Part number	Material
1		Body 35x35	HN350	PP +GF20
2		Body 50x35	HN500	PP +GF20
3		Front panel 35 Plastic	HN351	P A66 +GF30
4		Front panel 35 Metal	HN352	Stainless steel
5		Front panel 50 Plastic	HN501	PA66+GF30
6		Front panel 50 Metal	HN502	Stainless steel
7		Rear panel 35	HN353	Policarbon
8		Rear panel 50	HN503	Policarbon
9		Sealing Ring 35	HN354	Stainless steel
10		Sealing Ring 50	HN504	Stainless steel
11		Guide	HN0001	PA66+GF30
12		Rail	HN0002	Stainless steel
13		Internal element fixing	HN0003	Stainless steel
14		Auxiliary handle 35	HN0004	Stainless steel
15		Auxiliary handle 50	HN505	Stainless steel

.	Picture	Name	Part number	Material
16		Flat support	HN0005	Stainless steel
17		Extend support	HN0006	Stainless steel
18		Side support 35	HN356	Stainless steel
19		Side support 50	HN506	Stainless steel
20		Sealing	HN0008	EPDM
21		Flat nut	HN0009	Galvanized steel
22		Screw 3.5x12	HN0010	Stainless steel
23		Bolt 5x16	HN0012	Stainless steel
24		Bolt 6x30	HN0013	Stainless steel
25		Bolt 4x12	HN0014	Stainless steel
26		Bolt 4x12	HN0015	Stainless steel
27		Bolt 4x10	HN0016	Stainless steel
28		Bolt 4x6	HN0017	Stainless steel
29		Wing nut m6	HN0018	Stainless steel

03 · PREPARATION

Tools and supplies

Tools required for a complete installation. The membrane supplier's own tools and cleaning agents follow separate instructions.

TOOL	USED IN
Spirit level	Step 3 — level the box in all directions
Power screwdriver	Flat-head and standard bits, for all steps
Tape measure	Step 2 — wall thickness; step 8 — documentation
Adjustable / open-end wrench	Step 4 — pipe couplings
Pressure-test equipment	Step 7 — leak check before proceeding
Caulking gun	Step 9 — construction adhesive or silicone
Cleaning agent	Step 11 — per membrane supplier's instruction
Scissors / knife	Step 11 — trim membrane cuff if required

04 · INSTALLATION

Step-by-step

Follow the steps in order. Deviating from the order can affect the seal — especially step 7 (pressure test) and step 11 (membrane connection).

1 Install accessories

Install any accessories: PEX holder top, bottom, or both. Side wall panel mount, side wall box mount with sliding rail for hand shower.

.	Picture	Name	Part number	Material
1		Body 35x35	HN350	PP +GF20
2		Body 50x35	HN500	PP +GF20
3		Front panel 35 Plastic	HN351	P A66 +GF30
4		Front panel 35 Metal	HN352	Stainless steel
5		Front panel 50 Plastic	HN501	PA66+GF30
6		Front panel 50 Metal	HN502	Stainless steel
7		Rear panel 35	HN353	Policarbon
8		Rear panel 50	HN503	Policarbon
9		Sealing Ring 35	HN354	Stainless steel
10		Sealing Ring 50	HN504	Stainless steel
11		Guide	HN0001	PA66+GF30
12		Rail	HN0002	Stainless steel
13		Internal element fixing	HN0003	Stainless steel
14		Auxiliary handle 35	HN0004	Stainless steel
15		Auxiliary handle 50	HN505	Stainless steel

.	Picture	Name	Part number	Material
16		Flat support	HN0005	Stainless steel
17		Extend support	HN0006	Stainless steel
18		Side support 35	HN356	Stainless steel
19		Side support 50	HN506	Stainless steel
20		Sealing	HN0008	EPDM
21		Flat nut	HN0009	Galvanized steel
22		Screw 3.5x12	HN0010	Stainless steel
23		Bolt 5x16	HN0012	Stainless steel
24		Bolt 6x30	HN0013	Stainless steel
25		Bolt 4x12	HN0014	Stainless steel
26		Bolt 4x12	HN0015	Stainless steel
27		Bolt 4x10	HN0016	Stainless steel
28		Bolt 4x6	HN0017	Stainless steel
29		Wing nut m6	HN0018	Stainless steel

2 Check wall thickness

Find the correct wall thickness — wallboard without tiles, max 35 mm and minimum 0 mm (masonry wall). Adjust the side wall panel mount with the correct screws. Front-mount the sliding arm and adjust to the same depth. Use both hands for easier adjustment. Fasten with the correct screws.









3 Install in stud framing

Install the box in the stud framing (image A). Start from the left or right side, and fasten only one of the upper adjustable mounting rails at the desired height. Use only one flat-head screw at this initial stage on every mounting rail (image B) — this allows fine adjustment. Then fasten the lower mounting rail on the same side (image C). Pull out the mounting rails on the opposite side (image D) — they are designed for 60 cm stud spacing (c/c 60). Check that the entire box is level (image E). The box can be slid from left to right with precision. Verify placement, depth and level (image F). Once level, fasten the mounting rails with two extra screws each — one in the middle (image G). On the four arms, the stop screws must be tightened — this holds the box in the desired position (images H and I).



A



B



C



D



E



F



G



H



I

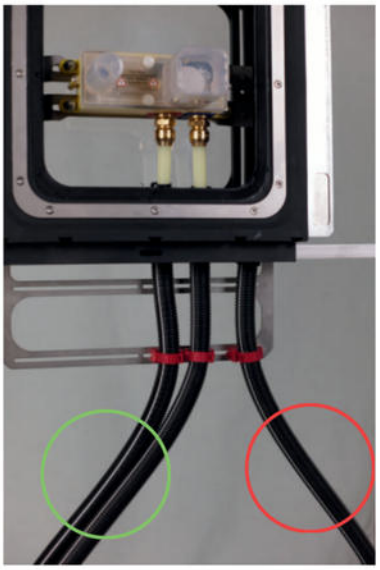
4 Pipe installation

Pipe installation can now be carried out. Hakonor boxes are supplied with factory-mounted pipe pass-through grommets, correctly positioned for the mixer tap. If you need to remove the mixer tap to install pipe couplings, verify afterwards that it is correctly secured when remounted.

5 PEX pipes

Fasten the PEX pipes — regular supply pipes marked with a green circle, drainage pipes marked with a red circle. Use (only on the 35×50 box) the wall-box side support from your pipe-in-pipe supplier if required. Connect all pipes to the mixer tap according to the installation instructions for the built-in product.

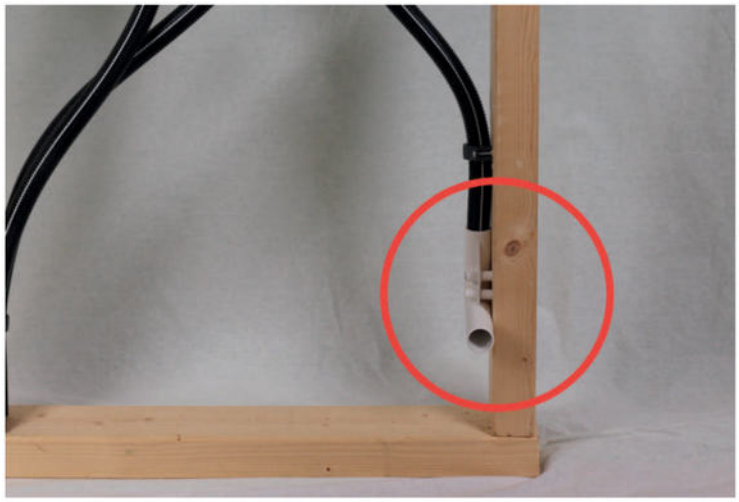






6 Drain outlet

Install the outlet for the drainage pipe (marked with a red circle). Use your pipe-in-pipe system and choose the correct location according to applicable technical regulations and the wet-room standard. If the drain is placed in a wet zone, a sealing membrane (cuff) belonging to the chosen pipe-in-pipe system must be used.



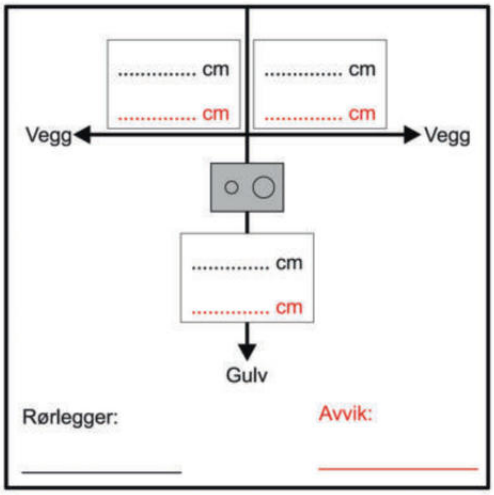
7 Pressure test

Once the pipes have been connected, a pressure test must be carried out to ensure no visible leaks occur.

8 Frontpanel

Install the frontpanel with the supplied correct screws. Use the paper sticker with all measurements to take a photo for documentation.





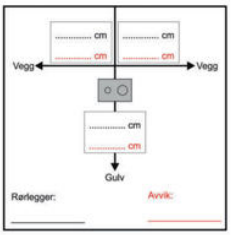
9 Seal around the mixer

Apply construction adhesive or silicone around the built-in mixer tap.



NOTE — ADJUSTMENT MARGIN

The entire box can be adjusted several centimetres left or right after the pipe couplings are complete and pressure-tested — if any deviation is detected in the planned side-wall thickness, or for minor changes in basin placement, etc. Ensure that, after adjustment, the pipes are still installed in accordance with the chosen pipe-in-pipe manufacturer. Use the same paper sticker to document any deviations.



10 Wall boards

Install the chosen wall boards. Use the side-wall mount with ”safe-zone” marks — our stickers show where you can drive screws without damaging the pipes. Use standard wallboard screws for steel studs. Construction adhesive may also be used. Install the boards approximately 3 mm away from the box, with flexible construction adhesive in the gap.





11 Membrane

Once the wallboards are installed, the chosen membrane system may be applied. Clean the hatch area before applying the cuff for better adhesion. Use the cuff supplied with the box. After the cuff is applied, install the membrane retaining ring with the supplied correct screws. For connecting system-approved membrane or wet-room sealing systems, refer to the separate instructions from the membrane supplier.

12 Tiling

The tiler can now carry out their work.

13 Service and maintenance

The Hakonor leak-protection box offers unique service possibilities. In case of leakage or if the mixer tap requires service, the box can be opened from both the front and the rear. The front cover can be replaced and adapted on site. The transparent rear cover makes it possible to see any faults and perform service from the adjacent room, without demolishing the bathroom/wet room. Internal mounting rails can be adjusted, and the mixer tap can be easily removed.







05 · APPROVED COMBINATIONS

Tested membranes for Hakonor

Hakonor has been tested together with two membrane systems by SINTEF Community according to EAD 030352-00-0503, Annex F (wet-room application). Both combinations passed with the result ”Passed — no leakage” for the 35×35 and 50×35 sizes.

• TESTED COMBINATION · SINTEF 2025:00674

Ardex S1-K Plus

Liquid-applied membrane

SINTEF TG 20339

Test date: 2025-08-25 · Approval period 5 years

Passed — no leakage

• TESTED COMBINATION · SINTEF 2025:00674

Mapeguard WP 140

Sheet membrane (Mapei)

SINTEF TG 20575

Test date: 2025-08-25 · Approval period 5 years

Passed — no leakage

Tested foil collar: ARDEX STA 40-140 butyl collar (Art. no. 02349-01425). Membrane curing time per the membrane supplier's installation instructions — minimum 7 days before subsequent work.

06 · SERVICE

Routines & care

Complement to step 13 — recommended maintenance routines and contact paths for spare parts.

ROUTINE	DETAIL
Visual inspection	Every 12 months — check the sealing ring and internal mounting rails.
Spare parts	Order via post@hakonor.no using the article number (HN…).
Recycling	PP, PA66, and stainless steel can be separated at end of life.

07 · CERTIFICATIONS

Tests and compliance

Hakonor is tested and approved in accordance with SINTEF Test Method no. 2 and EAD 030352-00-0503, Annex F (wet-room application). Installation must be carried out in accordance with this manual and comply with applicable technical regulations. Hakonor AS always recommends that certified plumbers install built-in products.

Test	Standard / method	Result
Watertight connection membrane × plumbing product	EAD 030352-00-0503, Annex F	**Passed**
Pipe-in-tube watertightness	SINTEF Test Method no. 2	**Passed**
Pipe-in-tube watertightness (5 systems)	SP-Metod 5676, Clause 2.2	**Passed**
Drainage capacity	>0.30 l/s (requirement ≥ 0.25 l/s)	**Passed**

Compatible pipe-in-pipe systems (25 mm protection tube)

LK	16 × 2.0
JRG Sanipex	16
Uponor	15 × 2.5
Roth Multipex	15 × 2.5
Høiax	15 × 2.5
TECE	16 × 2.0
Altech	15 × 2.5