Installation instructions
TLE och TLD doors

HEDEMORADÖRREN

START BY CHECKING WHAT WAS DELIVERED! I

This delivery includes:

- Door leaf and frame, in accordance with the delivery note.
- Plastic covers/wooden plugs, Ø 14 mm.
- Mounted frame sleeves, if ordered.
- Door threshold, if ordered.

TO INSTALL THE DOOR, YOU WILL NEED:

- A measuring tape
- A long and short spirit level
- Allen key, 10 mm
- Drill
- Screwdriver/bits (to match the installation screws)
- Hammer
- Frame sleeves/shims
- Installation screws (available from HIAK AB, see table)

CHECK:

Start by checking the items delivered and the labelling on the door leaf and frame to ensure that you install the correct door and frame in the right opening.
If the opening in the wall exceeds the stated tolerances, it will need to be reduced to fulfil the relevant fire- and soundproofing properties (for example, wooden stud or steel installation profile).

GENERAL INFORMATION ABOUT INSTALLATION

It is essential to perform the installation carefully so as to ensure that the door provides the required function in relation to noise, fire and security. Do not alter type-approved products or use accessories other than those covered by the type approval certificate.

Heavy doors (46 dB or more)

HIAK doors are extremely heavy and must be supplemented with a steel frame or robust wooden stud to prevent them sagging.

Door niches

In door niches, MDF panels used to cover the opening between the outer and inner insulation shells must not bridge the two shells. Instead, leave a gap of around 8 mm, which can then be sealed with an acoustic bonding agent/sealant.

When installing these doors, make sure to use the screws listed in the table below – or screws of an exactly corresponding type.

WALL	SCREW
Concrete/Lightweight concrete	Concrete screws 8 x 80
Brick	Nylon plugs
Wooden stud	Concrete screws 8 x 64
Steel beam	Pre-drill Ø 5 mm Screws 4.8 x 50

FRAME	WALL
Module dimensions W x H (dm)	Opening dimensions / Wall dimensions W x H (mm)
Example:	
Modul 9 x 21	max 915 x 2110 nominal 900 x 2100
Modul 13 x 24	max 1315 x 2410 nominal 1300 x 2400

Caulking

Pack the caulking firmly into the gap between door frame and wall. Then apply sealant – at least 10 mm – on both sides of the caulking to finish. This is extremely important, as there must not be any gaps or thin sections at all.
Adjust the door so that it closes tightly against the sealing band. Make sure it is not crooked by more than 1 mm in relation to the frame – side to side or front to back. Make sure to seal under the threshold.

HIAK recommends:

Sealant: Acoustic bonding agent Gyproc G55 Caulking: ISOVER 800 30x100 NON-PLASTIC.

HIAK AB • Sturegatan 2, 776 35 Hedemora • Sweden
Tel +46225-59 56 00 • Fax +46225-154 35 • products@hiak.se

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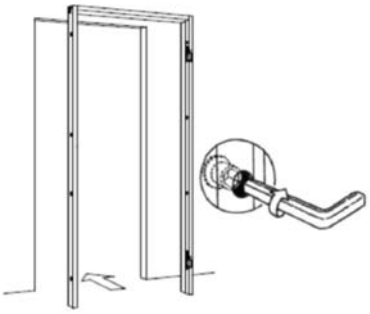

1.
Fit the frame in the door opening and center the frame carefully (front to back). If the frame is to be fitted with a wooden threshold, this can be used as a spacer during installation.
2.
Adjust the frame sleeves in each corner so that the sides are plumb both side to side and front to back, and that the lintel is completely level.
3.
Extend all the hinge-side frame sleeves against the wall.
4.
Drill and fit the screws and plugs, if any, in the frame sleeves near the hinges. (For twin doors, screw both sides of the frame in place at this stage).
5.
Use the long spirit level to check that the hinge side is perfectly straight. Adjust if necessary, and then hang the door leaf.
6.
Check that the door leaf and the frame meet flush at wall level by leaving the door ajar and then checking the gap from the top down. Adjust the lock side if necessary, and then secure in place with screws.
7.
Check that the play between door leaf and frame is 2.5 ± 1 mm, both side to side and top to bottom.
8.
Check the seal:
Try to pull a piece of paper between the closed door and the frame at various points. The seal is working properly if this is hard to do.
To optimize the seal, use a screwdriver to adjust the striking plate.
A weak seal may be caused by fitting the frame crookedly, which will result in an incorrect amount of play.

9.
Fix the adjusted frame:
Extend the remaining frame sleeves against the wall.
Check the play one last time.
Fit the screws (and plugs, if any) and tighten firmly.
Cover the installation holes in the frame with the plastic covers.

10.
If the door is break-in classified, the frame must be wedged next to the striking plate.
11.
Fit the threshold, if any – standard oak contact threshold. Make sure to seal under the threshold.
Alternative threshold:
A mechanical threshold built into the door leaf; flush 10 mm oak threshold.

12.
Sealing doors that are classed as soundproof or fireproof: Pack the caulking firmly into the gap between door frame and wall. Then apply sealant– min. 10 mm – on both sides of the caulking to finish.
This is extremely important, as there must not be any gaps or thin sections at all.
Make sure to seal under the threshold.

HIAK recommends:
Sealant: Acoustic bonding agent Gyproc G55
(alt. f Sikacryl-S+ eller ESSVE Akryl Flex 15%)

Sealant (sound/fire doors):
FS-Flex F FireStop 1000

Caulking: ISOVER 800 30x100 NON-PLASTIC

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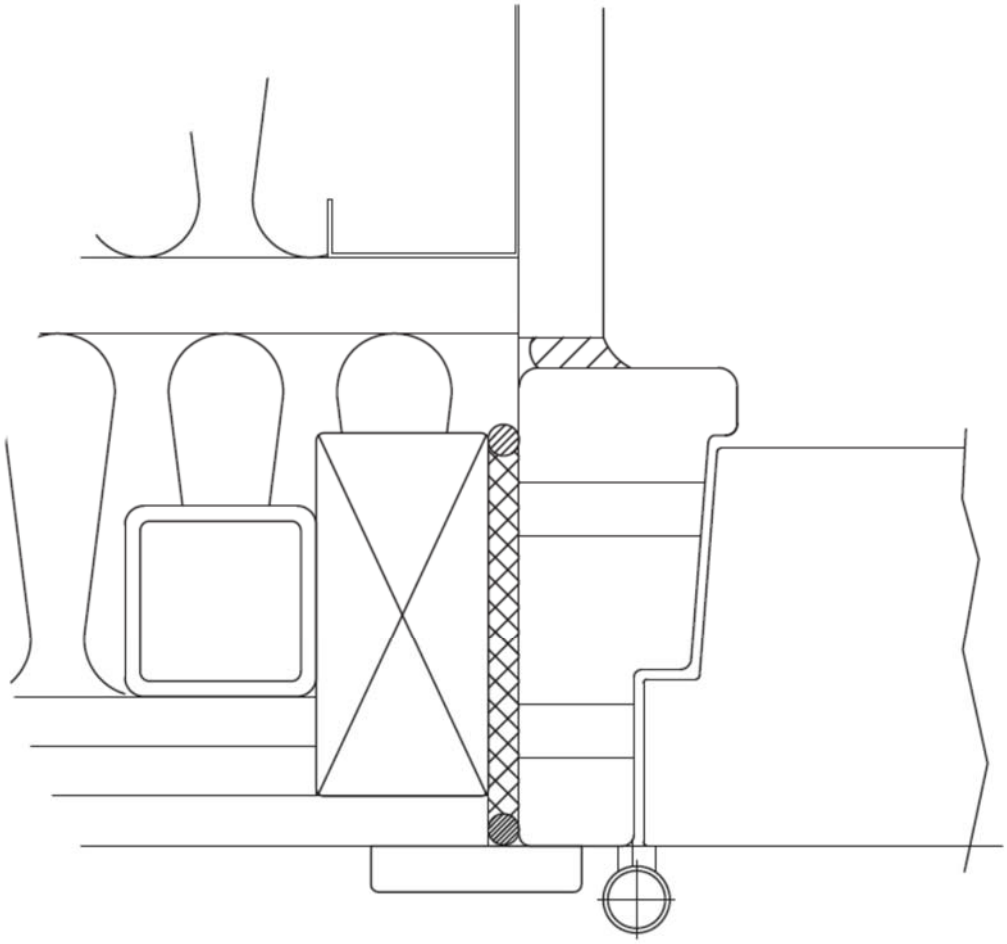

Photo showing an example installation:
Caulking and sealant: it is extremely important to pack the caulking tightly and then fill any cavities from both sides with at least 10 mm of sealant.

If fitting a niche/jamb, this must be fitted with a gap of 5–8 mm between door frame and niche/jamb. Then apply sealant to prevent noise from being transferred through the construction.

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