HL804H

Sealing kit DN50 & DN110 with bitumen collar for vertical pipe feedthroughs

Field of application

For foundation plates in contact with the ground, the austrian and german standard requires waterproofing against rising moisture, even for watertight concrete plates (ÖNORM B 3692 & DIN 18533 – Waterproofing of buildings). This is usually achieved by means of a vapor barrier in the form of a bituminous waterproofing layer (bitumen sheets).

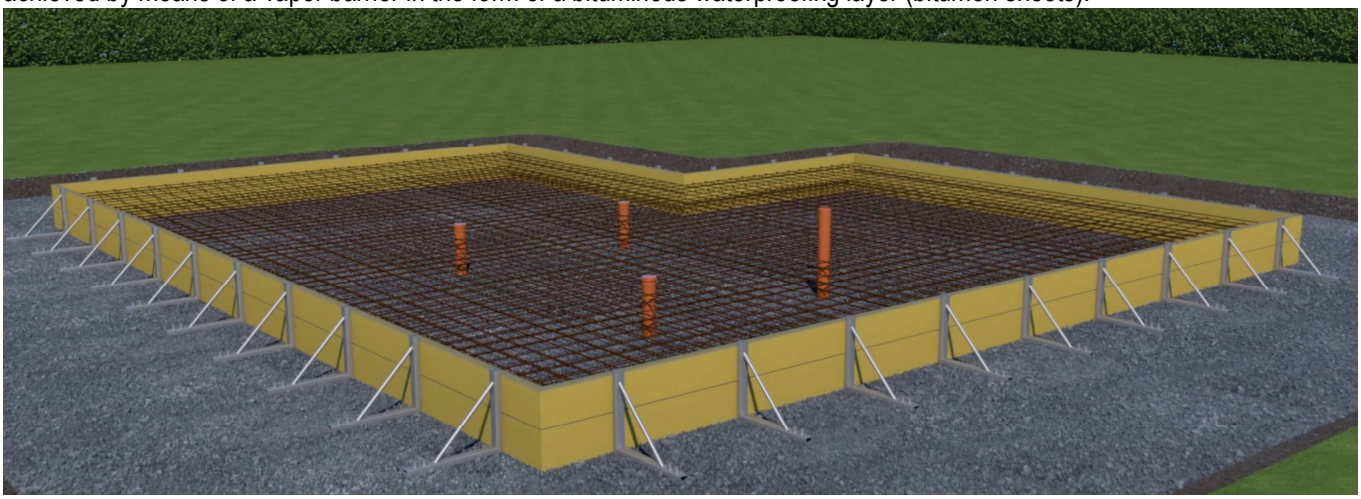


Figure 1 Creation of a foundation slab with vertically installed pipes

Wastewater pipes or pipe sleeves interrupt this seal and represent critical points in moisture protection. This is because moisture can rise up along the pipe by capillary action and cause damage to the floor structure and building. Pipe penetrations must therefore be professionally and permanently integrated into the sealing layer, both in foundation plates and in storey ceilings.

Current execution

Pipes that run vertically through the foundation plate are currently often integrated into the horizontal sealing layer using liquid plastics or waterproofing compounds.

Figure 2 Sealing with waterproofing compound for a pipe socket flush with the floor slab

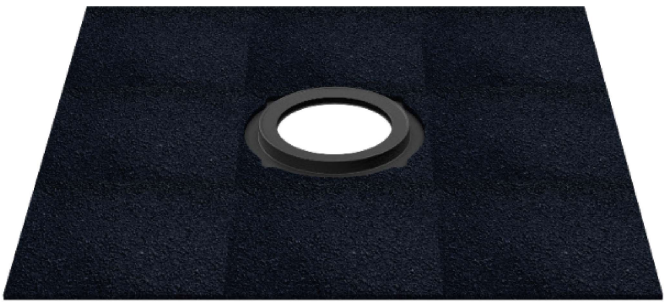
However, this method is:

- **Not systematic** – Every detail is carried out individually on site and cannot be planned in advance.
- **Quality dependent** – The result depends heavily on the technical skill of the person performing the work.
- **Expensive** – For proper sealing, the sealant would need to be raised up the pipe (see Figure 3). This is time-consuming and expensive, and is rarely done precisely in practice. This raising is also only possible if the floor structure inside the building is high enough.
- **Interface dependent** – In practice, the pipe socket is often flush with the concrete plate (see Figure 2). The waterproofer cannot yet install the waterproofing, as the piping will only be continued at a later stage of construction. This creates a time gap and a gap between concreting, waterproofing, and pipe installation—a classic risk for errors and damage.

Figure 3 Raising of bitumen on the pipe feedthrough

The solution: HL804H Sealing kit with bitumen collar

The HL804H sealing kit is a standardized **system solution** for vertical pipe feed-throughs in foundation plates and storey ceilings, available in DN 50 and DN 110. The combination of a TPE **lip seal** and **pre-assembled bitumen collar** ensures **secure and immediately functional integration** of the pipe into the waterproofing layer, regardless of the technical execution or construction process. Individual waterproofing details are replaced by a **ready-to-install solution** that enables **reproducible execution**.



Installation is **clearly defined and saves time**:
After the concrete plate has been poured, the sealing kit is **positioned centrally above the floor-level pipe socket**. The integrated lot cover ensures **precise centering**. The bitumen collar is then **torched to the surrounding bitumen sheeting**. The lot cover has the additional function of protecting the part against damage during this phase.

Figure 5 Flush-mounted socket

Figure 4 A plain pipe passed through the concrete plate

The sealing kit can be used with both **flush-mounted pipe sockets** (Figure 5) and **plain pipe ends** (Figure 4). The TPE lip seal seals against the **pipe diameter** (see Figure 6) and enables a **time-saving, permanently tight connection** between the **waterproofing** and the **pipe penetration**.

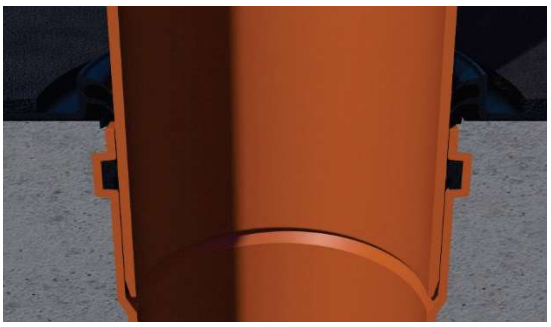
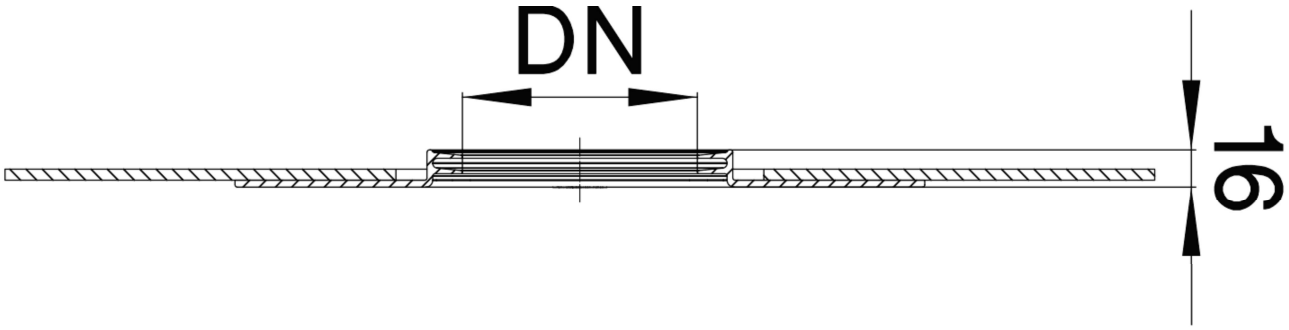


Figure 7

Figure 6

The innovative TPE lip seal eliminates the need for the raising on the pipe required with conventional seals, allowing for immediate changes of direction in the piping. HL804H is therefore also ideal for flat floor structures.



The HL804H sealing kit is fully integrated into the sealing layer by the sealing contractor. It is a predictable, safe, and economical solution that clearly separates all trades and thus minimizes moisture risks at vertical pipe penetrations.

It can be used both in foundation plates in contact with the ground as protection against **capillary rising moisture** and in storey ceilings as **integration of pipes into the building waterproofing** and has been tested for **radon tightness**. It therefore offers a reliable waterproofing solution for vertical pipe penetrations even in radon-contaminated regions.

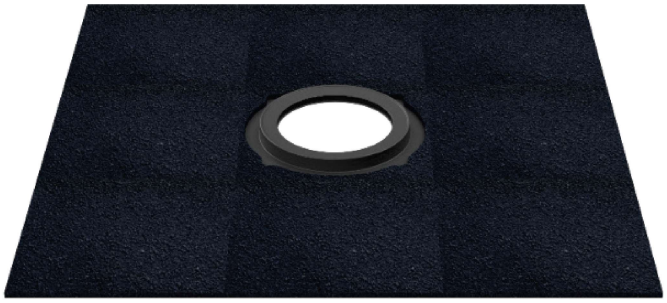
Advantages at a glance:

- **Standard-compliant** execution of vertical pipe penetrations
- Clear **systema solution** instead of customized solutions
- Faster, easier, and more **plannable installation**
- **Secure sealing** independent of the construction process
- **Flat design** – suitable for flat floor structures
- **Permanent tightness** – even against **radon**

HL804H Sealing kit with bitumen collar

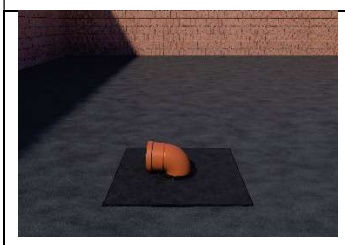
Data

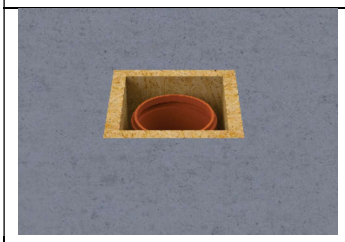
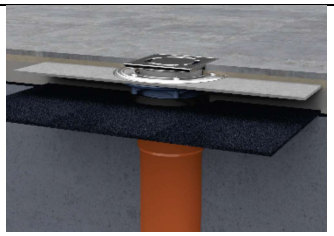
Material	TPE, PP, bitumen
Connection	HL804H/50: D 50 mm HL804H/110: D 110 mm
Recommended for	foundation plates, intermediate ceilings, and as pipe sealing for sealing classes W4 and W5.
Additional information	Protection against rising capillary moisture through connection between pipe feed-through and structural waterproofing.



HL-Nr.	Dimension	Weight	EAN	Piece/package
HL804H/50	DN50	1700 g	+003723	1
HL804H/110	DN110	1700 g	+003709	1

Flexible areas of use and application:

 	Situation (1) Vertical continuation of the pipe feed-through The pipe is inserted vertically into the floor-level pipe socket and continued vertically.
 	Situation (2) Direct redirection of the pipe feed-through The pipe bend is inserted directly into the floor-level pipe socket and continued horizontally.

 	Situation (3) Pipe reduction and direct redirection of the pipe penetration A pipe reducer is inserted and then continued horizontally with a pipe elbow. The reducer is inserted directly into the floor-level pipe socket.
 	Situation (4) Plain pipe end passed through
 ✗  ✓	Situation (5) The floor drain is embedded in a pipe socket and sealed underneath with HL804H pipe sealing kit. Alternatively, in this application, recesses are often created around the pipe penetration and later filled with concrete. This is also time-consuming, prone to errors, and structurally unfavorable, as the concrete plate is interrupted.

Available from: 1st of november 2025

Price: see price list