



SIPHONS ABLÄUFE



HL804H



HL800



HL800.2

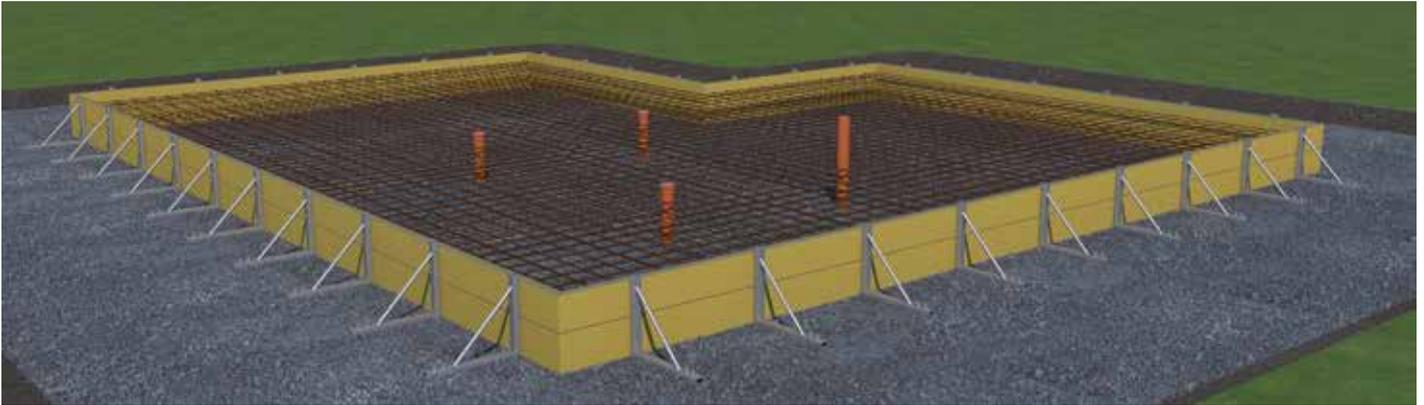


HL801

# HL pipe sealing systems

# HL804H – The New Gold Standard for Vertical Pipe Penetrations

Pipe penetrations in foundation plates and intermediate floors are considered the Achilles' heel of structural waterproofing. They interrupt the bituminous waterproofing layer and provide moisture with a silent path upward through the structure. Traditional sealing details require extensive manual work, perfect execution, and precise coordination between trades. In practice, it is exactly at these interfaces where small gaps arise, later causing major damage.



The HL804H pipe seal brings order to this critical detail. It connects the pipe penetration to the waterproofing layer as a secure, predictable, and permanently watertight system, independent of construction sequence or workmanship.

## Yesterday: Workmanship with uncertainty factor



Waterproofing with liquid bitumen or liquid plastics was labor-intensive, highly dependent on workmanship, and often incomplete. The required vertical bonding on the pipe was rarely executed precisely and is impossible with sockets that are flush to the concrete. In addition, time gaps frequently occurred between concreting, waterproofing, and installation.

## Today: A defined, systemic solution

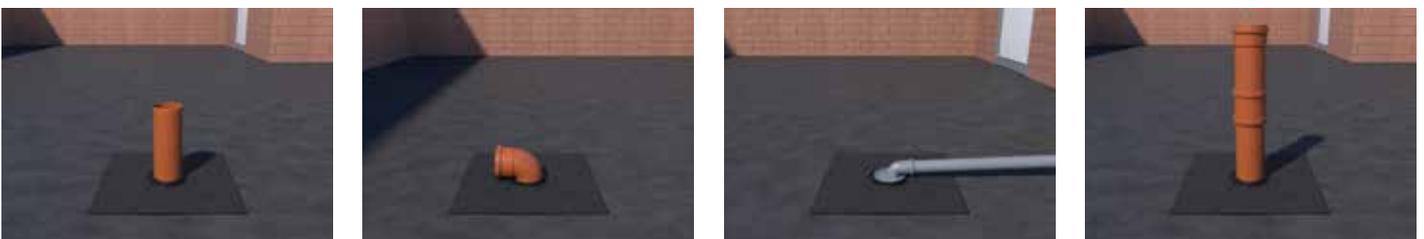


Factory-prepared pipe seal with welded-on bitumen membrane ensures a defined, reproducible, and permanently watertight connection to the basement waterproofing.

## All Advantages at a Glance

- **Clear separation of trades:** Defined handover between structural works/waterproofing and installation
- **System solution instead of variable custom details:** Predictable, reproducible, and independent of individual workmanship
- **Low installation height:** Immediate change of pipe direction; no vertical bonding of waterproofing required, saving valuable floor build-up height
- **Standards-compliant and safe:** Suitable for soil moisture and non-pressurized water (according to DIN18533), tested for radon tightness; also suitable for integration into structural waterproofing in intermediate floors
- **Maximum flexibility:** Works with flush-mounted pipe sockets and plain pipe ends

## Installation examples HL804 H



# HL800 – The Established Benchmark for Horizontal Pipe Penetrations

Horizontal pipe penetrations through earth-contacting basement walls are among the most critical details in structural waterproofing. They must be properly integrated into the external waterproofing, yet in practice they are often installed only after waterproofing work is completed. Responsibility for permanent sealing is frequently unclear, resulting in improvised solutions without defined connection geometry. These may be watertight initially, but long-term reliability is uncertain, especially in the event of settlements of the building.



The HL800 pipe seal addresses this issue by providing a clearly defined, predictable wall connection for the permanently secure integration of pipes into the structural waterproofing.

## Yesterday: Improvised wall penetration



Individually executed sealing details without a defined system geometry. The quality depends on the workmanship, and mistakes often remain undetected during construction.

## Today: Systemic wall connection



Factory-prepared pipe seal with welded-on bitumen membrane ensures a defined, reproducible, and permanently watertight connection to the basement waterproofing.

## All advantages at a glance:

- **High execution reliability:** System solution with reproducible quality, independent of workmanship
- **Standards-compliant connection:** Suitable for soil moisture and non-pressurized water in accordance with ÖNORM B 3692
- **Successfully tested** up to 0.6 bar ( $\approx$  6 m water column)
- **Radon-tight:** Suitable for radon-exposed locations
- **Flexible application:** Single, double, and multiple pipe penetrations possible
- **Clear construction process:** Clean separation between structural works, waterproofing, and installation
- **Elastic design:** Compensates for pipe angles of up to 10%

## Multiple Pipe Penetrations

HL801 series\* for routing up to four pipes/cables with different diameters from 8–52 mm, for example electrical cables. For precise configuration of the required screw connections and reducers, please use our calculation tool at [www.hl.at](http://www.hl.at)

under:



[products](#) --> [installation ABC](#) --> [HL Calculator for Pipe sleeves](#)

or scan the QR Code

\*useable only in combination with HL800/160

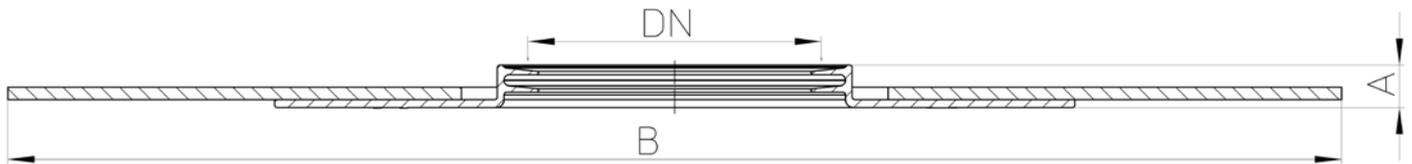


## HL804H Pipe Seal with Bitumen Collar

The HL804H pipe seal is a standardized system solution for vertical pipe penetrations in foundation plates and intermediate floors. It is available in DN50 and DN110.

The combination of a TPE lip seal and a pre-mounted bitumen collar ensures a secure and immediately functional integration of the pipe into the waterproofing layer, regardless of workmanship quality or construction sequence. Individual sealing details are replaced by an installation-ready solution that enables consistent and reproducible execution.

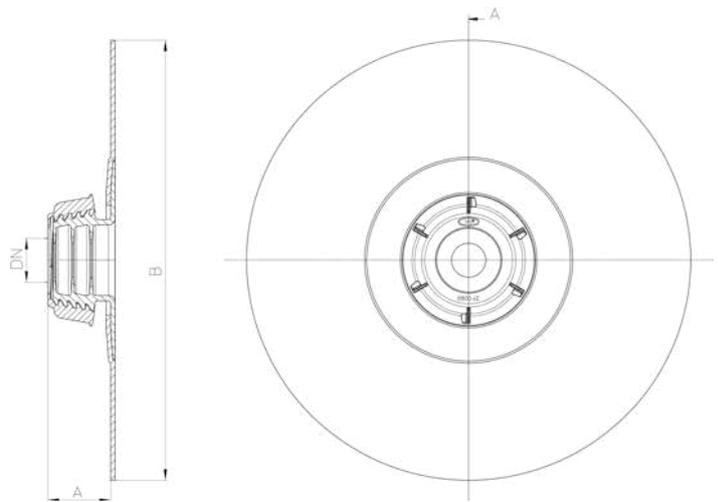
Article	Collar	DN	A	B
HL804/50	Bitumen	50 mm	16 mm	ø 500 mm
HL804/110	Bitumen	110 mm	16 mm	ø 500 mm



## Single Pipe Penetrations

HL800 Series for the penetration of, for example, wastewater pipes from 32–165 mm, with factory-applied bitumen membrane.

Article	Collar	DN	A	B
HL800/32	Bitumen	32 mm	57 mm	ø 400 mm
HL800/40-50	Bitumen	40–50 mm	57 mm	ø 400 mm
HL800/63-75	Bitumen	63–75 mm	57 mm	ø 400 mm
HL800/110	Bitumen	110–115 mm	80 mm	ø 500 mm
HL800/125	Bitumen	125–130 mm	80 mm	ø 500 mm
HL800/160	Bitumen	160–165 mm	80 mm	ø 500 mm



## Double Pipe Penetrations

HL800.2 Series for routing two pipes of the same diameter, for example supply and return lines of a heat pump. With factory-applied bitumen membrane.

Article	Collar	DN	A	B	C	D
HL800.2/40-50	Bitumen	40–50 mm	57 mm	400 mm	590 mm	185 mm
HL800.2/63-75	Bitumen	63–75 mm	57 mm	400 mm	590 mm	210 mm

