



# WiSecure™ W802

The embedment ring W802 is intended as a seal at embedments in concrete walls and floors. The special profile of the rubber ring creates an effective seal between the pipe and the concrete.

**WiSecure™ W802 is used for water and/or radon sealing at embedments in concrete walls and floors. The seal is suitable for all types of piping, e.g. plastic, steel, cast iron, concrete etc., and is fitted onto the pipe for complete embedment. In some cases the ring can be used on corrugated plastic piping.**

The unique profile of the ring, together with the hose clip provides an effective seal between the pipe and concrete. This effective sealing is partly due to the ability of the hose clip to hold the rubber ring in close contact to the pipe during the concreting process. The flanges of the ring are effectively fastened in the concrete during the setting process.

The W802 seal can be advantageously used where a pipe is not subjected to great axial movement. Where excessive axial movement is present we recommend our sealing rings F801, F803 or F804.

## Material

The sealing ring is made of EPDM-rubber with a hardness of  $40^\circ \pm 5^\circ$  IRHD. The material satisfies the demands in the European standard EN 681-1 and Construction Products Regulation (CPR). W802 seal have a very good durability against alkaline grow after embedment in concrete.

The hose clip is supplied as a standard component in aluzinc.

The maximum continuous working temperature for rubber material is  $+ 45^\circ$  C. The seal can shortly be exposed to a temperature of  $+ 95^\circ$  C.

*” The unique profile of the ring, together with the hose clip provides an effective seal between the pipe and concrete.”*

## Water tightness

The W802 sealing withstands a water pressure of 0,4 bar in stationary condition and 0,1 bar during an axial movement of max. 4 mm.

## Radon tightness

Tests performed in 2014 by SP Technical Research Institute of Sweden shows that the W802 sealing is completely air tight

## Test Resultat

The seals in the W800-systems have successfully passed the function sealing test at Studsvik AB, Sweden and Fernwärme-ForschungsInstitut in Hannover, Germany. The Swedish National Testing and Research Institute have, in an official report, approved the ability of the W802 to prevent radon gas.



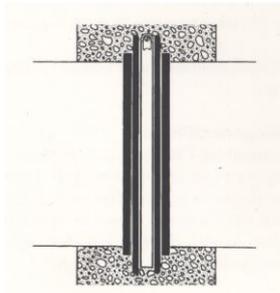
W802 embedment ring is normally a little less in diameter than the pipe in question (2 - 8% depending on the pipe diameter).

If the seal needs to be pushed along the pipe a greasing agent can be used or the ring can be "rolled" along the pipe. We can supply the greasing agents.

If a hole is bored in a concrete wall in preparation for embedment of a pipe/sealing ring we recommend the following minimum bore holes:

Pipe dimension	Hole dimension
16 - 32	Pipe dim. + 80 mm
40 - 180	Pipe dim. + 100 mm
≥200	Pipe dim. + 120 mm

When fitting in other types of hole (e.g. rectangular) there should be a space around the ring of at least 20 mm.



W802 embedded in concrete.

### Mounting Instructions

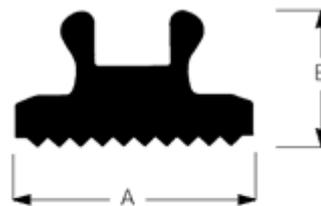
1. Mount the sealing ring and the hose clip onto the pipe.
2. Tighten all hose clips so that the ring cannot be moved axially or radially on the pipe and so that good contact is achieved between the pipe and the rubber ring around the entire circumference of the pipe.

*The effective sealing quality of the W802 is partly due to the ability of the hose clip to hold the ring close to the pipe during the concreting process.*

3. Ensure that the ring is completely covered by concrete. This applies especially where a pipe is angled in a concrete floor, e.g. radon sealing of drains. In such cases it would be better to fit the ring onto the drain itself.

4. Vibrate the concrete so that it becomes a good connection to the rubber ring.

Contact us for alternative mounting suggestions.



Dimension	A	B
16 - 180	40	22
200 - 1000	50	27

All measurements in mm

### Dimensions OD in mm / Art.no.

Pipe OD	Art.no						
16-18	3331618	110	3330110	250	3330250	630	3330630
22-25	3332225	125	3330125	280	3330280	710	3330710
28-32	3332832	140	3330140	315	3330315	800	3330800
40	3330040	160	3330160	355	3330355	900	3330900
50	3330050	175	3330175	400	3330400	1000	3331000
63	3330063	180	3330180	450	3330450	1500	3331500
75	3330075	200	3330200	500	3330500	2000	3332000
90	3330090	225	3330225	560	3330560		

We can also supply special sealing rings in the dimension you require.