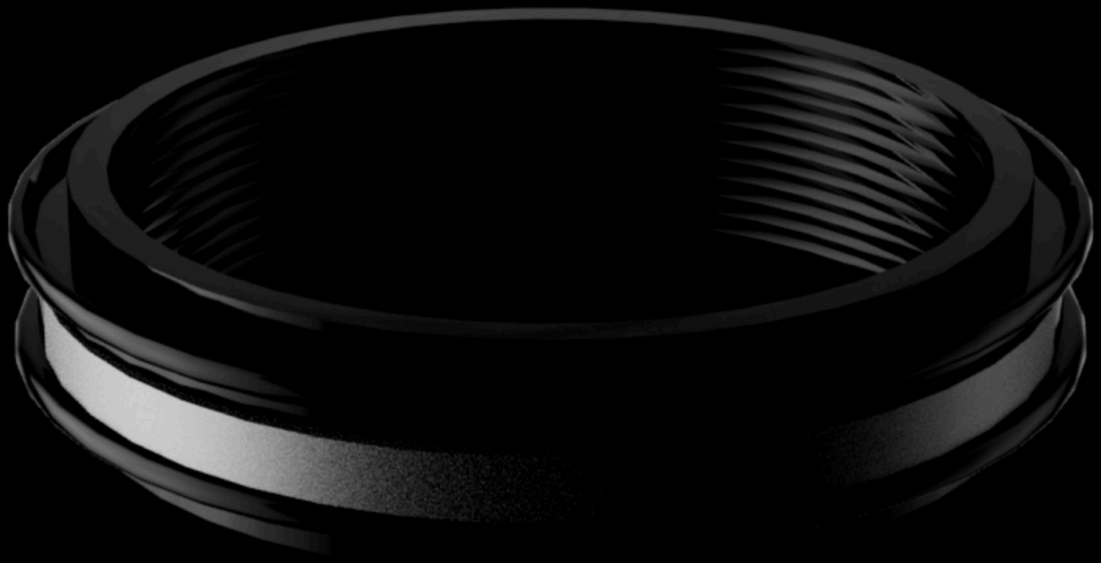
WISECURE W802

Truly secure before it happens

What point is it to have a beautiful house if it can slowly poisoning your family or residents. That's why we invented the W802. Its an invisible seal against radon and leakage that build into the wall or floor. W802 are our most popular choice securing millions of families, buildings and homes around the world everyday.



PROTECTS AGAINST WATER & RADON

FROM 16 MM & UPWARDS

PVC
ALL TYPES OF PIPES

-55C +95C
TEMPERATURE RANGE

SAL
SMART AUTO LUBRICATION

WISECURE

BEFORE IT HAPPENS

We believe in a future where no person needs to get harmed. The way we do that is by finding secure, safe and smart solution that prevents unnecessary accidents from happening, we sell great proactive solutions. WiSecure AB, Stuartsgatan 1, SE-504 68 Borås, +46(0)33-10 04 40, info@wisecure.se www.wisecure.se

Makes home the safe place it should be

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.

The sealing ring is made of EPDM-rubber with a hardness of 40o ± 5o IRHD. The material satifies 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 continuos working temperature for rubber material is + 45o C. The seal can shortly be exposed to a temperature of + 95o C.

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FFI

TESTED BY FFI INSTITUTE

DIMENSIONS OD IN MM / ART.NO.

PIPE OD	ART. NO	RSK. NR	E-NR	PIPE OD	ART. NO	RSK. NR	E-NR	PIPE OD	ART. NO
16 - 18	3331618	4054773	0665703	160	3330160	4054757	0665717	630	3330630
22-25	3332225	4054774	0665704	175	3330175	4054771		710	3330710
28-32	3332832	4054768	0665706	180	3330180	4054758		800	3330800
34	3330035			200	3330200	4054759		900	3330900
40	3330040	4054772	0665707	225	3330225	4054760		1000	3331000
50	3330050	4054769	0665708	250	3330250	4054761		1500	3331500
63	3330063	4054751		280	3330280	4054762		2000	3332000
75	3330075	4054752	0665711	315	3330315	4054763			
90	3330090	4054753	0665712	355	3330355	4054764			
110	3330110	4054754	0665713	400	3330400	4054765			
125	3330125	4054755	0665715	450	3330450	4054766			
132	3330132	4054779	0665716	500	3330500	4054767			
140	3330140	4054756	0665716	560	3330560				

We can also supply special sealing rings in the dimension you require from dimension 200mm and up.

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.

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.

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A strong seal against water and radon

Wisecure W802 is one of the most effective barriers against water and ground radon gas on the market. Radon is a radioactive inert gas that is formed when the element radium disintegrates. The gas is difficult to detect as it is invisible and cannot be smelled or tasted. Health problems usually occur when radon daughters enter our airways and lungs when we breathe. They emit ionised radiation there, mainly in the form of alpha particles, which can cause lung cancer.

Cast-in ring for water and / or radon sealing of round pipes in concrete walls and floors.

W802 unique profile design creates an effective seal between the pipe and the concrete. W802 is used where the pipe will not be exposed to major axial movement and is available as standard in dimensions from 16 mm up to 2,000 mm.

Rubber material: EPDM, 40 ° ± 5 ° IRHD.
Meets requirements according to the material standard EN 681-1, table 2.
CE marked: Meets requirements according to the EU Construction Products Ordinance. (CPR).
Hose clamp: Steel (AluZink).

Previous tests show that the application can handle 0.4 bar water pressure at standstill and 0.1 bar at axial movement (≤ 4 mm). Renewed testers performed by SP 2014 confirm that the application is completely air and radon tight.

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.

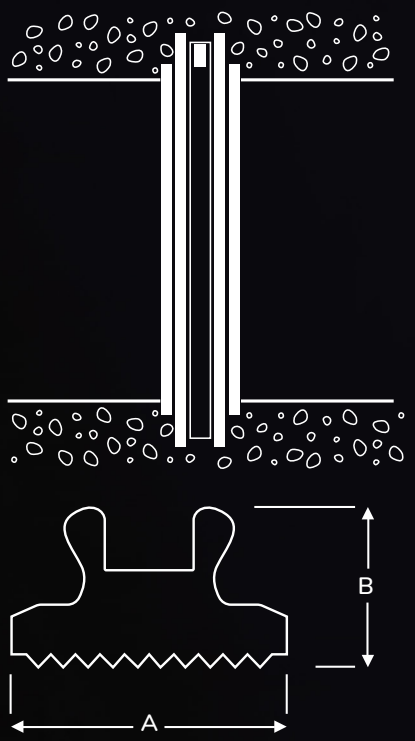
W802 embedment ring is normally a little less in diameter than the pipe in question (2 - 8% depending on the pipe diameter).
If the seal needs to be pushed along the pipe a greasing agent can be used or the ring can be ”rolled” along the pipe. We can supply the greasing agents.

If a hole is bored in a concrete wall in preparation for embedment of a pipe/sealing ring the 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.

DIMENSION (MM)	A	B
16-180	40	22
200-1000	50	27



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Secure agains the invisible danger

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To make it even more secure we are using AluZinc that is 55% Aluminium, 43% Zink. AluZinc is extremly durable against rust and perfect, secure and longlasting.

13
Al
Aluminium

30
Zn
Zinc

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