WiSecure™ *W801*

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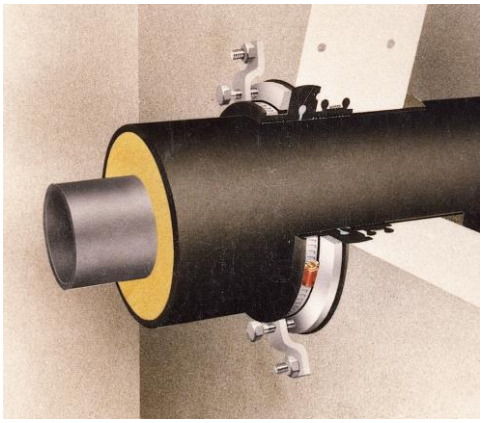
WiSecure™ W801 is intended as a seal at embedments in concrete walls and floors. The seal is designed to function effectively in both high and low water pressure. W801 is also a so-called movement friendly seal, which allows for axial movement at the point of embedment. It is possible to adjust the seal after embedment and it can be fitted both inside or outside a concrete wall.

The seal can be used with all sorts of piping, such as plastic, steel, concrete, cast iron etc. and allows for generous axial movement on piping with a smooth surface. The special profile of the rubber ring creates an effective seal between the pipe and the concrete. A cavity in the larger ring is filled with grease to obtain easy axial movement and ensure that the grease prevents water seeping through any possible scratches on the piping. Pressure from the clamping ring causes the seal to expand while at the same time the pressure against the surrounding concrete increases and the grease is forced out through the sealing groove.

Material
The sealing ring is made of EPDM-rubber with a hardness of 40° ± 5° IRHD. The material satifies the demands in the European standard EN 681-1 and Construction Products Regulation (CPR). W801 seal have a very good durability against alkaline grow after embedment in concrete.
The hose clip is supplied as a standard component in stainless steel (W5, AISI 316).
The maximum continuos working temperature for rubber material is + 45° C. The seal can shortly be exposed to a temperature of + 95° C.

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. SP Technical Research Institute of Sweden have, in an official report, approved the ability of the W802 (part of the W801-application) to prevent radon gas and tests performed in 2014 shows that the W802 sealing is completely air tight.



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Mounting Instructions

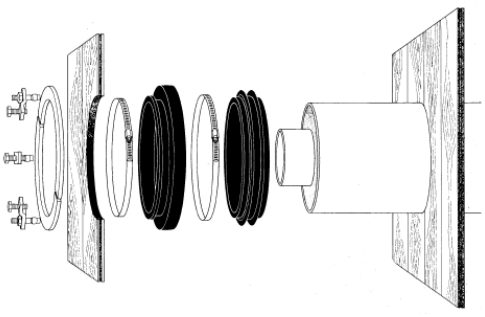
1. Make a round hole in the inner mould wall for the grease groove sealing flange. The hole in the outer mould wall should be a little larger than the pipe´s diameter.

2.Fill the grease groove with the supplied lubricant. Mount both the rubber rings on the pipe. Press the rings against the inner wall (the larger ring clamping flange will go through the wall), tighten all hose clips so that good contact is achieved between the pipe and the rubber ring around the entire circumference of the pipe.

Should the pipe be exposed to axial movement, the part of the pipe not covered by the rubber rings should be protected with, for example, tar paper. This is to avoid direct contact with the pipe during casting.

3. Reinforce and cast the concrete wall. Vibrate the concrete to ensure a good connection against the rubber rings.

4. After removing the mould walls drill holes in the wall for the clamping bolts. Use a clamping dog as a jig. Position the end clamping dogs max. 50 mm from the open end of the clamping rings. Position the remaining clamping dogs evenly around the pipe.

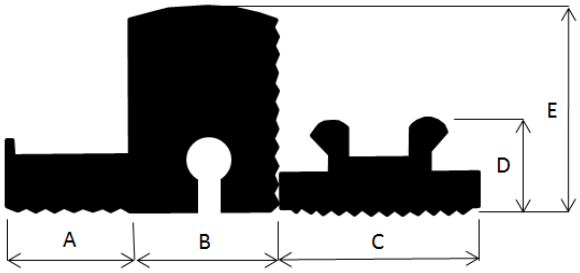


5. Mount the clamping rings and the clamping dogs. Adjust the clamping ring so that it presses against the rubber rings only and not against the wall. Tighten the clamping dogs so that the grease-groove sealing is pressed against the concrete wall. Correct clamping force is reached exactly when the clamping dog rises. Check that the outer hose ring clip is

W801- seal can be partly dismantled and adjusted after casting. Please contact us for alternative suggestions for mounting.

Grease-groove seal W802 sealing ring

The number of clamping dogs required for the pipes:
110 - 315 mm . . . . . 8 units
355 - 560 mm . . . . 10 units
630 - 710 mm . . . . 12 units
800 - 1000 mm . . . 16 units



Dim.	A	B	C	D	E
110-180	26	25	40	22	37
200-1000	26	31	50	27	44

All measurements in mm

Dimensions OD in mm / Art.no.

Pipe OD	Art.no	Pipe OD	Art.no	Pipe OD	Art.no	Pipe OD	Art.no
110	1659204	**200**	1816100	**355**	1816604	**630**	1817104
125	1659302	**225**	1816205	**400**	1816702	**710**	1817202
140	1659400	**250**	1816303	**450**	1816800	**800**	1817300
160	1659505	**280**	1816401	**500**	1816905	**900**	1818206
180	1672000	**315**	1816506	**560**	1817006	**1000**	1818500

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

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