WiSecure™ *W803*

The W803 building entry repair seal is intended for sealing when leakage occurs between the pipe and wall/floor of an embedded pipe. The special profile of the rubber ring creates an effective seal between the pipe and the concrete.

WiSecure™ W803 is is intended for sealing when leakage occurs between the pipe and wall/floor of an embedded pipe. W803 is a so-called movement friendly seal, which allows for axial movement of the embedded pipe. The seal is adjustable and can be mounted from both the inside or outside of a wall.

The repair seal W803 can be used with all sorts of piping e.g. plastic, steel, concrete etc. and allows for generous axial movement of piping with a smooth surface.

The special profile of the rubber sealing ring creates an efficient seal between the pipe and the concrete. A cavity in the rubber ring is filled with grease in order to achieve a movement friendly seal. At the same time the grease prevents any water leaking through the seal where the piping may be scratched. The pressure of the clamping ring causes the seal to expand while simultaneously causing the pressure against the wall/floor to increase forcing the grease out from the sealing groove.

Material
The sealing ring is made of EPDM-rubber with a hardness of $40^o \pm 5^o$ IRHD. The material satifies the demands in the European standard EN 681-1.
W803 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 $+ 45^o$ C. The seal can shortly be exposed to a temperature of $+ 95^o$ 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.
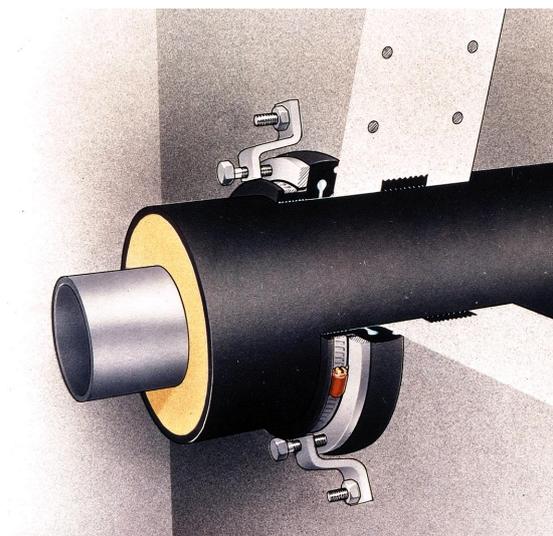
"The seal is adjustable and can be mounted from both the inside or outside of a wall."

Mounting Instructions

1. Check that the space between the pipe and wall does not exceed 10 mm and also ensure that the pipe which is inserted in the wall is at least 80 mm.

2. Carefully clean the concrete for at least 50 mm around the hole. The concrete should be smooth and even and the hole should be free of any residue. The pipe should also be clean where the seal is to be fitted.

3. Cut the ring just before fitting. Use a sharp knife which has been dipped in water. Before gluing read the instructions below as well as the instructions on the tube of glue. Then place the rubber ring around a part of the pipe which is of a smaller diameter. If this is not possible, straddle the pipe and stretch the rubber ring so that the ends can be glued together. The recommended temperature when gluing is a minimum of +7°C. Before gluing, carefully check that the ring is in the correct position. The surface which is to be glued must be clean and free of grease. Spread the glue evenly on only one of the edges. Press the edges together and hold them pressed for appr. 30 seconds. Please note that the glue sticks immediately. It is not possible to make further adjustments later.

4. Fill the grease groove with the supplied lubricant.
Then apply the sealant to the side of the ring facing the wall.

5. Turn the sealing ring back to its original position. Press the ring against the concrete wall and fit the hose clip. Tighten all hose clips so that good contact is achieved between the pipe and the rubber ring around the entire circumference of the pipe. Drill holes in the wall for the expansions bolts. Use a clamping dog as a jig. Place the end clamping dogs at least 50 mm from the open ends of the clamping rings. Position the rest of the clamping dogs evenly around the pipe.

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

6. Mount the clamping rings and clamping dogs. Adjust, if necessary, the clamping ring so that it has good contact with the rubber ring. Please note that the clamping ring should not come into contact with the concrete wall. Press the clamping ring behind the screw holder of the hose clip. Tighten the clamping dogs so that the seal is pressed against the wall making the unit watertight. Correct clamping force is reached exactly when the clamping dog rises**.** Adjust and tighten the hose clip. Make further adjustments of the clamping dogs and hose clip if necessary.
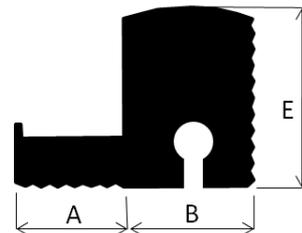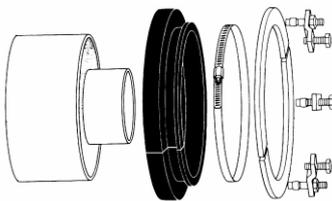
Dimension	A	B	E
110 - 180	26	25	37
200 - 1000	26	31	44

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	1659240	200	1826502	355	1827002	630	1827506
125	1659345	225	1826600	400	1827100	710	1827604
140	1659443	250	1826705	450	1827205	800	1827702
160	1659541	280	1826803	500	1827303	900	1827800
180	1672043	315	1826901	560	1827401	1000	1827905

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

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