WESTATLANTIC Tech Corp.
www.westatlantictech.com
sales@westatlantictech.com
902 455 4455

Puddle Flanges
Fits all American and International Pipe sizes

http://www.westatlantictech.com/pages2/wall-collars-puddle-flange.php

Eliminate water leaks

Groundwater must be taken into account in these pipe through wall procedures.

Swimming pool walls, tank walls, shafts, etc. are also critical applications where puddle flanges are used.

Water penetrates on the outer side of pipes into the building. Puddle flanges eliminate these leak occurrences.

Puddle Flanges WA-PF models
Pipe through wall Water Tight sealing.

Thick EDPM Elastomer disk with ridged face profile for concrete bonding to the puddle flange

The solution

With WA EDPM puddle flanges can be installed against pressing water making watertight concrete walls, slabs and shafts. Puddle flanges provide a perfect sealing for all current pipe materials provided that the pipe's outer surface in the area of the collar is clean, smooth and pore-free. If necessary, the pipe's surface should be rubbed smooth.

Characteristics

EPDM material is chemically resistant to a wide variety of acids and lyes. It also provides outstanding weather and ozone resistance. Against oil and grease it provides only moderate resistance. EPDM is not resistant to petrol. In the latter case, Puddle flanges made from NBR can be used.

Density	1.030 kg /m³
Shore hardness	40° Sh ± 5
Tensile strength	8 N/mm²
Elongation at breaking point	750 %
Tear strength	3,5 N/mm²
Temperature resistance	-50....+120°C
Compression set (24 h, 70°C)	25 %

Area of application

The system is designed for the standard diameters of plastic pipes. Because of the great flexibility it can also be used for diameters of different pipe materials.

Westatlantic technical is available to provide detailed instructions and information for specifc applications.

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Westatlantic Tech Corp., is a leading supplier of pipe through wall sealing solutions.

Puddle Flanges, Modular Seals, External Wall Seals, and flexible Booth Seals.

Available From Stock

We also provide specialty sealing solutions for leaking link seal problems.

Modular Seal Links for Sealing Large Diameter pipes.

End Sealing for casing pipe and split casing pipes.

Advantages

- Economical solution
- Easy installation with steel or stainless steel clamping bands
- Suitable for various pipe materials
- Waterproof to 60 m of water column for diameters from 32 to 315 mm
- From diameter 355 mm, waterproof to 10 m of water column
- Can be installed in ceilings, floors and walls
- Good chemical resistance to acids and lyes
- Many years of experience with over 700,000 applications
- Also available for oil and petrol-resistant NBR

Installation

The puddle flanges are pulled onto the pipe by hand and fastened by means of the appropriate clamping system in accordance with the installation instructions. A screwdriver can be used to install the clamping system on pipes up to 315 mm diameter. From d 355 mm a clamping tool must be used. Puddle flanges are not fixing points for pipe but we can also supply high-tensile wall ducts of PE and PP.

Quality assurance

The production, logistics and development of the puddle flanges is certified according to DIN EN ISO 9001:2008 ff. Consistently high quality is ensured through the use of high quality raw materials, the latest production techniques and comprehensive, factory-wide monitoring.

Puddle flanges, EDPM puddle flanges, frank puddle flanges, pipe waterstop collars, strap on puddle flanges, pipe through walls and slabs, cast in puddle flanges, American pipe sizes, International pipe sizes, USA and Canada, USA, Texas, TX, Houston, Florida, FL, Miami, Tampa, Naples, Louisiana, New York, NY, Illinois, IL, North Dakota, ND, Utah, UT, Salt Lake City, Iowa, IA, Ohio, OH, Michigan, New York, NY, Utah, Arkansas, Kentucky, KC, California, CA, Colorado, Denver, LA, Pennsylvania, PA, Wisconsin, WI, Canada, Ontario, Oakville, Toronto, London, Hamilton, Mississauga, Alberta, AB, Edmonton, Fort McMurray Calgary, Alberta, AB, Fort McMurray, Medicine Hat, Grande Prairie, Fort St. John, Estevan, Brooks, Swift Current, British Colombia, BC, Kelowna, Vancouver, Prince Rupert, Victoria, Kitimat, Saskatchewan, SK, Regina, Saskatoon, Prince Albert, Estevan, Swift Current, Manitoba MB, Winnipeg, Thompson, Quebec, QC, Montreal, Quebec City, Trois-Rivieres, Chebougamau, Sherbrooke, QC, Alberta, Saskatchewan, Manitoba, Quebec, New Brunswick, NS, Newfoundland, NL

Puddle Flanges
Strap to the pipe with 316L band clamps

1. Preparing the pipe

The outer surface of the pipe to be concreted in must be cleaned with cloth, steel wool or similar material. Any visible grooves on the plastic pipes must be removed with a scraper on the puddle flanges support. In the case of all pipe materials, the surface of the pipe must be clean, smooth and pore-free (concrete pipes must be smoothed with liquid cement).

2. Installing the puddle flange

Neutral soap or a similar product can be used as an aid when sliding the puddle flange onto the pipe. The puddle flange must be positioned in the middle of the wall to be sealed. The concrete coating must cover every part of the puddle flange to at least 5 cm.

3. Installing the clamping band

- with the puddle flange installation kit

Fit a clamping band on both sides of the collar and tighten it using a screwdriver or a hexagonal Allen key.

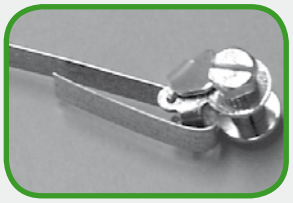
- with individual components

Clamping bands are required per puddle flange:

- up to 200 mm diameter with 1 fastener on the circumference
- above 225 mm diameter with 2 fasteners on the circumference

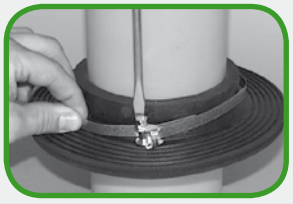
a) Determine the length of the clamping band (pipe circumference + 115 mm and cut to length.

b) Fold over approx. 5 cm of the band and hang it in the fastener's clip.



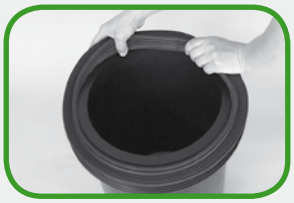
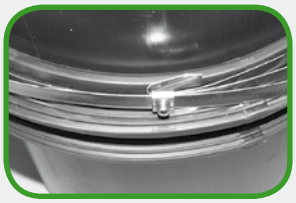
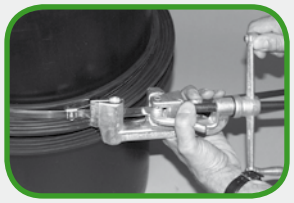
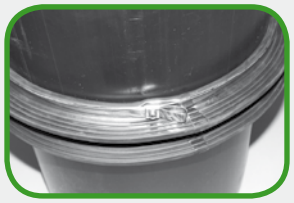
c) Fit the clamping band around the collar and insert the end into the compression bolt.

d) Turn the compression bolt in a clockwise direction using a screwdriver or hexagonal Allen key and tighten the clamp gently until the band is fixed tightly.



4. Ready-installed puddle flange

Puddle Flanges - prevent water creep along the outside diameter of the pipe.

1. Preparing the pipe The outer surface of the pipe must be cleaned and pre-treated in the same way as for puddle flanges diameter 32 to 315 mm (see page 8, section 1.).	
2. Installing the puddle flange The puddle flange is fitted in the same way as for puddle flanges diameter 32 to 315 mm (see page 8, section 2.).	
3. Preparing the clamping band A stainless steel clamping band is required at both sides of the walls as well as between the walls. The clamping band is laid in double layer and fastened with a single fastener. The total of 3 fasteners should be fitted at approx. 120° (degrees) from each other. A clamping tool is used for the installation. This tool is available from us for purchase or on loan with a security deposit.	
4. Installing the clamping band a) Use the band directly from the roll. Pull the loop through the band. Double the free end of the band and fit it around the puddle flange, bend it under the fastener and press it flat.	
b) Pull the band tight by hand and attach the clamping tool as shown. Press down on the gripping lever with your thumb. The band is tensioned by turning the hand crank. Crank until the band is uniformly tightly fitted on the collar. The collar walls must be vertical.	
c) When taut, screw the hexagonal Allen screw into the fastener and tighten it. Any excess band must be cut to approx. 8 cm in length using the tool's cutting device and bent over under the fastener.	
4. Ready-installed puddle flange	

Puddle Flanges WA-PF models, have a rippled raised face ridge that bonds to the concrete. The thick EDPM disk are designed for a secure no leak installation for the life of the pipeline. They fastened to the pipe or sleeve and cast in the wall with the pipe. For retrofit of pipes through block walls puddle flanges may be grouted in the wall .

Puddle Flanges may be use with Steel pipes, PVC pipes or HDPE Pipes.

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