

## PROOFMATE - WATERSTOPS PVC-P-NBR

### Properties:


*PROOFMATE-WATERSTOPS* based on PVC (PVC = polyvinylchloride) are profiles used to seal joints in civil engineering and underground structures, as well as in concrete construction and ensure a durable waterproofing. The choice of the right waterproofing band depends on the type of joint and the stresses that govern the structure.

- types of joints (dilatation, contraction and construction joints, etc.)
- Water stress due to pressure, surface water, groundwater, etc.
- Influences from shrinkage, contraction, temperature changes, climatic stress and dynamic loads.

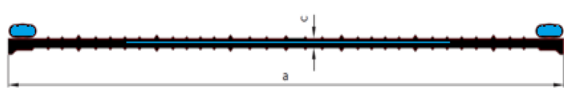
PVC-Waterstops are suitable for the application in: Bridges, chemical plants, Industrial areas, sewer plants, Hydroelectric plants, tunnels, potable water reservoirs, dams, retaining walls, pools, locks, etc..

### Technical data:

Elongation at break	≥ 300 %	DIN EN ISO 527
	≥ 200 % (at 20°C)	DIN EN ISO 527
Tensile strength	≥ 10 N/mm <sup>2</sup>	DIN EN ISO 527
Shore A hardness	72 ± 5	DIN ISO 7619-1

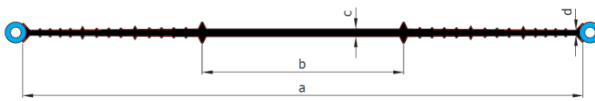


Type	a [mm]	c [mm]
<b>Flex 10 TM *</b>	100	4.5
<b>Flex 15 TM *</b>	150	4.5
<b>Flex 19 TM *</b>	190	4.5
<b>Flex 24 TM *</b>	240	4.5
<b>Flex 32 TM *</b>	320	5

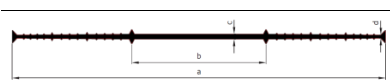


Type	a [mm]	c [mm]
<b>Flex 19 SL TM *</b>	190	4.5
<b>Flex 24 SL TM *</b>	240	4.5

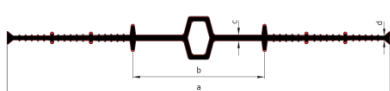
\* spring steel reinforced

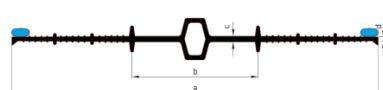
			
Type	a [mm]	b [mm]	d [mm]
<b>A 32 NB TM IH **</b>	320	100	5

\*\* integrated injection hoses

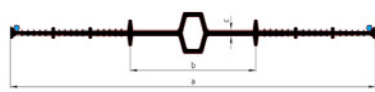
				
Type	a [mm]	b [mm]	c [mm]	d [mm]
<b>A 10 TM</b>	100	20	3	2.5
<b>A 11 TM</b>	110	25	3	2.5
<b>A 15 TM</b>	150	45	3	2.5
<b>A 19 TM</b>	190	70	3	2.5
<b>A 24 TM ***</b>	240	80	3.5	2.5
<b>A 32 TM ***</b>	320	100	4.5	3
<b>A 50 TM ***</b>	500	150	6	3.5

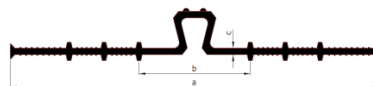
\*\*\* also available according to DIN 18541 part 1+2 NB

				
Type	a [mm]	b [mm]	c [mm]	d [mm]
<b>D 11 TM</b>	110	40	3.5	2.5
<b>D 15 TM</b>	150	50	3.5	2.5
<b>D 19 TM</b>	190	65	3.5	2.5
<b>D 24 TM</b>	240	80	4	3
<b>D 32 TM</b>	320	110	5	3.5
<b>D 35 TM</b>	350	110	5	3.5
<b>D 50 TM</b>	500	160	6	4
<b>DEM 25 TM</b>	250	120	6	5
<b>DEM 32 TM</b>	320	170	6	5
<b>DDS 32 TM</b>	320	120	8	5

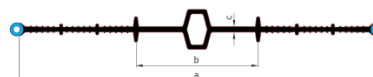
				
Type	a [mm]	b [mm]	c [mm]	d [mm]
<b>D 15 SL TM *</b>	150	50	3.5	2.5

\* spring steel reinforced

				
Type	a [mm]	b [mm]	c [mm]	d [mm]
<b>D 15 ML TM</b>	150	50	3.5	2.5

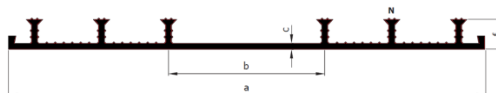


Type	a [mm]	b [mm]	c [mm]
OM 25 TM	250	75	6
OM 35 TM	350	95	6
OM 50 TM	500	190	7

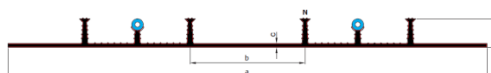


Type	a [mm]	b [mm]	c [mm]
D 32 NB TM IH **	320	110	5

\*\* integrated injection hoses

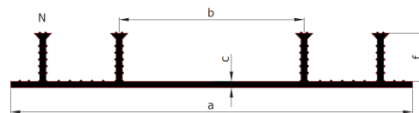


Type	a [mm]	b [mm]	c [mm]	f [mm]	locking ribs (N)
AA 19 TM	190	66	4	15	4
AA 24 TM	240	90	4	20	4
AAS 24 TM	240	90	4	24	4
AA 24/3/4 TM	240	115	5	35	4
AA 32 TM	320	105	4	20	6
AAS 32 TM	320	105	4	25	6
AA 32/3/6 TM	320	105	5	35	6
AA 50/2/6 TM	500	235	5	20	6
AA 50/2/8 TM	500	125	5	20	8
AA 50/3/6 TM	500	235	5	35	6
AA 50/3/8 TM	500	125	5	35	8

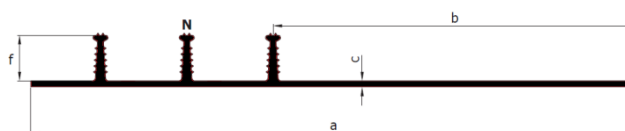


Type	a [mm]	b [mm]	c [mm]	f [mm]	locking ribs (N)
AA 50/30/6 TM IH ***	500	120	4	30	6
AA 50/30/6 17 TM ICH ***	500	170	4	30	6
AA 40/30/4 TM ICH ***	400	170	4	30	4
AA 60/30/6 TM ICH ***	605	275	4	30	4

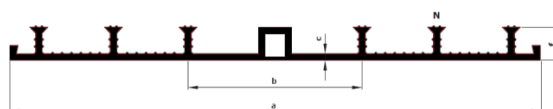
\*\*\* integrated injection hoses



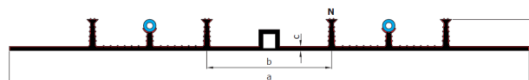
Type	a [mm]	b [mm]	c [mm]	f [mm]	locking ribs (N)
AA 24/30/4 TM Free Edge	250	115	4	30	4



Type	a [mm]	b [mm]	c [mm]	f [mm]	locking ribs (N)
AA 40/30/3 TM Flat	400	240	4	30	3

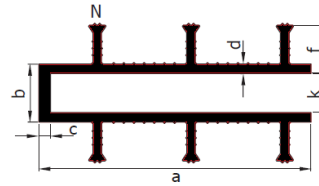


Type	a [mm]	b [mm]	c [mm]	f [mm]	locking ribs (N)
AD 19 TM	190	92	4	17	4
AD 24 TM	240	90	4	20	4
AD 24/3/4 TM	250	115	5	35	4
AD 32 TM	330	105	4	20	6
ADS 32 TM	330	105	4	25	6
AD 32/3/6 TM	330	105	5	35	6
AD 50/2/6 TM	500	235	5	20	6
AD 50/2/8 TM	500	125	5	20	8
AD 50/3/6 TM	500	235	5	35	6
AD 50/3/8 TM	500	125	5	35	8



Type	a [mm]	b [mm]	c [mm]	f [mm]	locking ribs (N)
AD 50/30/6 TM IH**	500	120	4	30	6

\*\* integrated injection hoses



Type	a [mm]	b [mm]	k [mm]	c [mm]	d [mm]	f [mm]	locking ribs (N)
<b>FV 50/20 TM</b>	50	20	10	6	5	25	2
<b>FV 50/20/30 TM</b>	50	20	10	6	5	35	2
<b>FV 50/30 TM</b>	50	30	20	6	5	25	2
<b>FV 50/30/30 TM</b>	50	30	20	6	5	35	2
<b>FV 70/30/40 TM</b>	70	30	20	6	5	45	2
<b>FV 70/50/40 TM</b>	70	50	40	6	5	45	2
<b>FV 100/30 TM</b>	95	30	20	6	5	25	4
<b>FV 140/30 TM</b>	140	30	20	6	5	25	6
<b>FV 140/30/30 TM</b>	140	30	20	6	5	35	6
<b>FV 140/30-130 TM</b>	140	125	20	6	5	25	6
<b>FV 140/40 TM</b>	140	40	30	6	5	35	4
<b>FV 140/60 TM</b>	140	60	50	6	5	35	4

## Processing:

### Cutting and Welding:

The correct welding procedure with an electrical blade or with a welding device with the corresponding cross section.

Accurately cut the sections to be connected in a sharp angle and clean them of impurities or irregularities. Make sure that the welding tool is clean and in a safe position to warm up.

The elements to be welded must be placed on a flat, stable surface.

The cut surfaces are partially pressed against the heated welding tool until a liquid mass on both sides oozes out. Then just release the pressure enough to remove the welding tool and press the seam back together until it has cooled down after about 30-60 seconds.

Ideally two people are required to perform this operation properly. While one handles the welding tool, the other presses the seams against it. The welding process should be carried out quickly and efficiently, beware not to cool the heated points before they are actually connected while an excessive or prolonged heating can lead to charring of the PVC and to a lack of bonding. PVC melts at about 120-140°C but burns to slag at about 160-180°C. According to these values, the temperature of the welding device must be appropriately set.







Before each new heating, PVC residues at the welding tip must be thoroughly cleaned. At best used for this purpose a V4A wire brush.

After the welding a joint tape sweatband with a thickness of about 1.5 mm is applied over the entire seam. The sweatband should be applied with a little pressure and then heated with a heat gun. The heat gun is to be only briefly used on the tape. This measure is used to secure the welds. Each weld is finished with an electric spark device to check for leaks.

## Installation:

The *PVC WATERSTOP* ist be installed together with the reinforcement steel bars (clamps and connection wire).

The cleanliness and integrity of the *PVC WATERSTOP* shall be inspected before concrete cast.

Weldings	"T"	"X"	"L"
Flat			
Vertical			

## Safety information:

No special measures required

## Packaging:

all types 25m Rolls

except:  
AA50 NB, AD 50 NB, AA500 DIN, DA 500 DIN 20m Rolls  
S NB 50m Rolls

## Storage:

Shelf life at least 24 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

## Disposal:

### Recommendation:

Small quantities of product residues can be disposed of as normal domestic waste. Dispose of bigger quantities must be effected in accordance with the corresponding local regulations.



**Legal notice:**

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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**TPH.**  
*Waterproofing Systems*