



CATALOG

WATERPROOFING MATERIALS

www.plastiki.com.gr



 **EPD**[®]
THE INTERNATIONAL EPD[®] SYSTEM

About Us

We are a family company started in 1958, by Miltiadis Tyrbas and enters the third generation in plastics industry. Started with the production of plastics general household goods consumption. Since 1988 produces specialized elements with high demands and specifications for construction works.



Costumers

TERNA SA
AKTOR SA
ATTIKO METRO SA
METLEN SA
INTRAKAT SA
AVAX SA
T-MOBILE
COSMOTE- OTE SA
FRAPORT SA
LAMDA DEVELOPMENT
PLASTIKA KRITIS SA
LIDL HELLAS
NOVA / WIND SA
MOTOR OIL
STAM SA
VINCI
HOCHTIEF
VODAFONE SA

and +3.000 more...

CERTIFICATES



EPD®

THE INTERNATIONAL EPD® SYSTEM

Verified by GS1

Member of  Association Greece

CONTENTS

5

Waterstops

9

BS Standard Waterstop Series

14

DIN Standard Waterstop Series

23

Waterstop Welded Parts

25

Fixing Clips for Waterstops

26

Blade Waterstop

28

TPE Waterstops

31

Hydrophilic Swelling waterstops

34

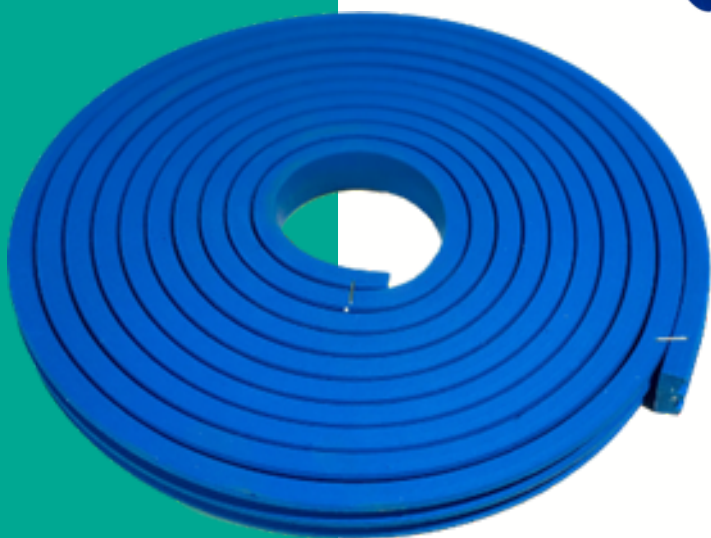
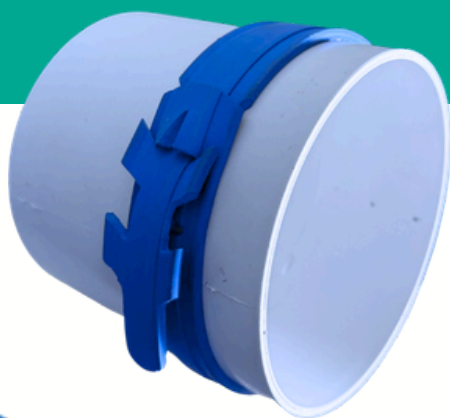
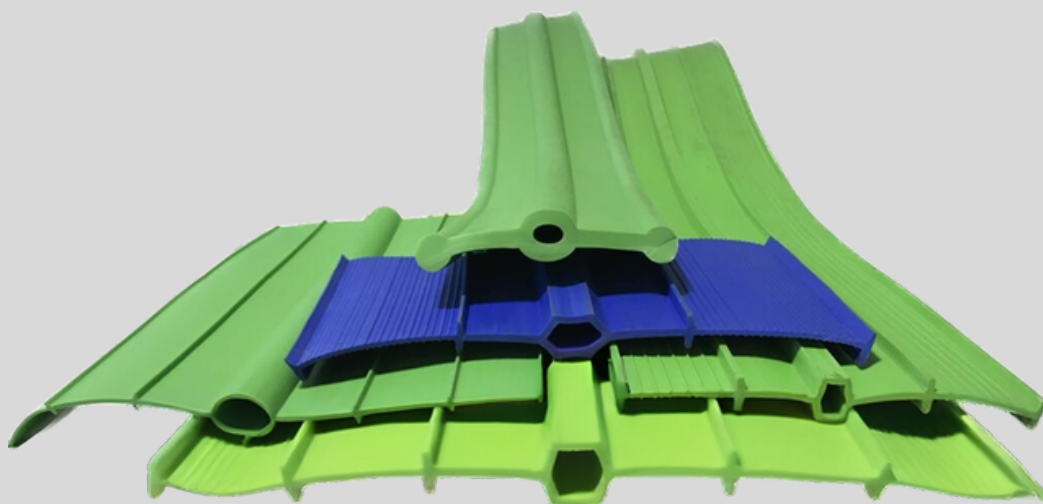
Waterstops with Intergrated Inj. Hoses

38

Injection Hose Systems

41

Accessories For PVC Membranes





Athens Metro Line 4 developed by AVAX SA.

WATERSTOPS

PVC – PE – TPV–TPE–TPO WATERSTOPS ARE USED FOR SEALING CONSTRUCTION AND EXPANSION JOINTS IN CONCRETE OR ANY OTHER CONSTRUCTION.

**WATERSTOPS ARE AVAILABLE IN VARIOUS SIZES AND TYPES, DEPENDING ON THE NEEDS OF EACH PROJECT.
ALL PVC WATERSTOPS ARE AVAILABLE IN BS STANDARD AND DIN STANDARD SERIES**

WATERSTOPS ARE USED TO SEAL CONSTRUCTION AND EXPANSION JOINTS IN WATER RETENTION STRUCTURES SUCH AS TUNNELS, DAMS, CISTERNS, IRRIGATION CANALS, SWIMMING POOLS, BASEMENTS, UNDERGROUND CAR PARKS, RETAINING WALLS.

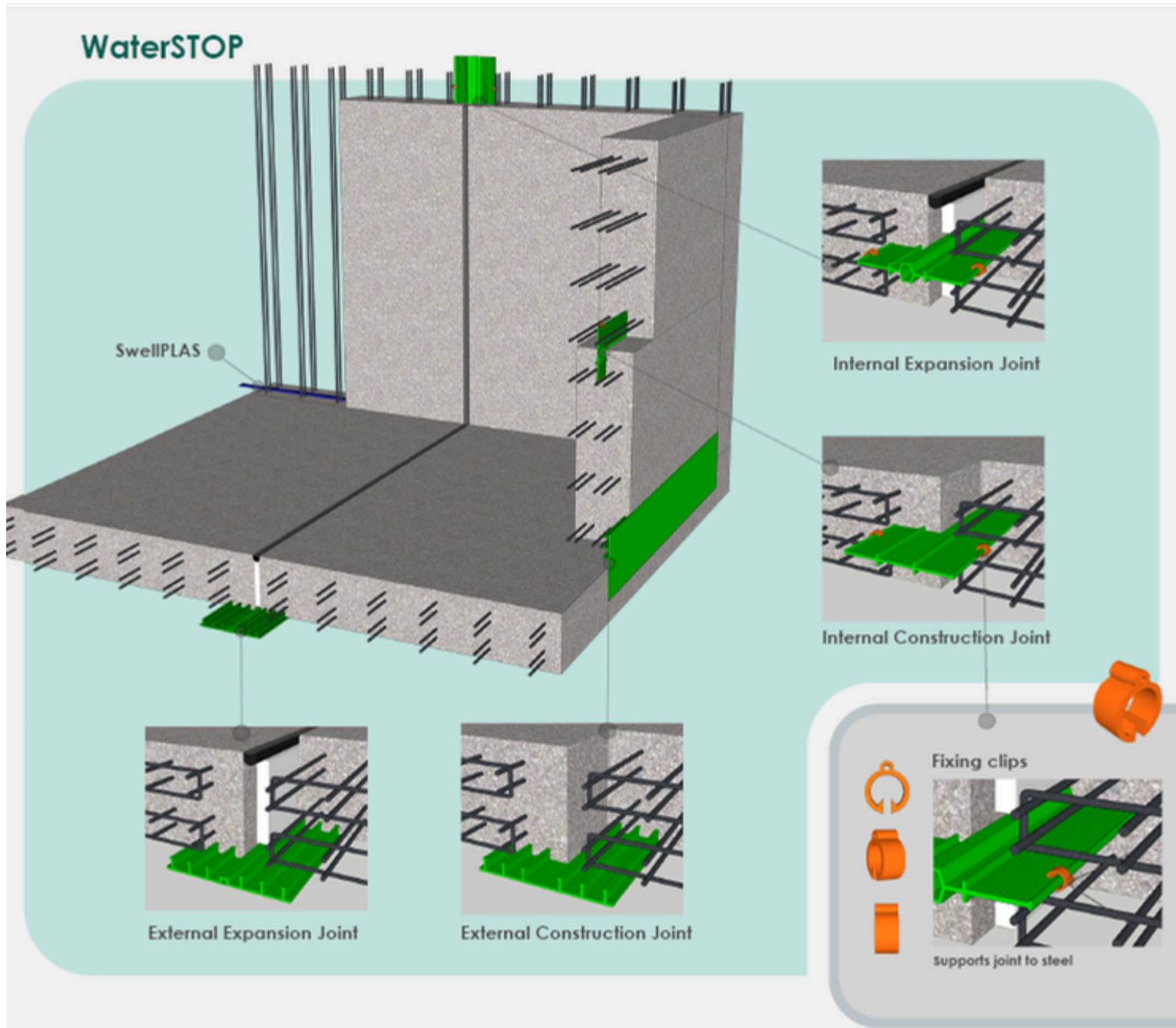
Standards/Approvals

PVC waterstops have been tested and are in accordance to:

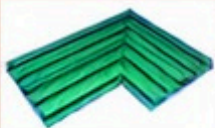
- **Factory Stanfards**
- **BS 2571**
- **DIN 18541, Part 1– Part 2**

WATERSTOPS

AREAS OF APPLICATION



Pre-fabricated factory welded joints



Flat L



Flat T



Flat X



Reverse Vertical L

Accessories



Joining Jig



Electric Welding Knife



Athens Metro Line 4 – "Dikastiria" Station, developed by AVAX SA.



FACTORY STANDARD WATERSTOP SERIES

WATERSTOPS FS STANDARD

Basis: PVC (according to Factory Standard)

Colour: BLACK

Application temperature: $\geq 0^{\circ}\text{C}$

Tensile strength, in accordance with EN ISO 527: $\geq 10\text{ N / mm}^2$

Elongation at break in accordance with EN ISO 527: $\geq 250\%$

Hardness per ShoreA in accordance with EN 527: 75 ± 5

Reaction to fire: Normal inflammability

in accordance with EN 13501:(construction class E)

Resistance to Chemicals:

Type

Dilute Acid Very Good

Dilute Alkalis Very Good

Oils and Greases Good (variable)

Sea water Very Good

Aromatic Hydrocarbons Poor

Halogenated Hydrocarbons Moderate (variable)

Alcohols Good (variable)

Length: 10-25m

Packaging: Rolls

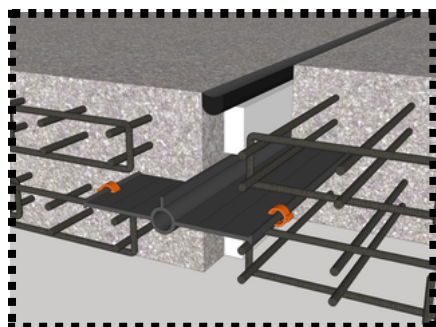
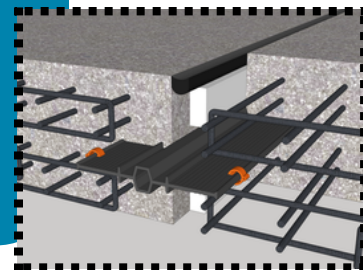
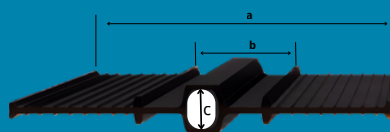
**Store dry, frost-free, weather protected,
min. 18 months**

In general, it is not recommended to use a product after it has expired unless Plastiki Group has given its approval. Only after verifying that the material's primary properties meet specifications may the Plastiki Group's quality assurance department provide this approval.

WATERSTOPS BS STANDARD

BS STANDARD WATERSTOP SERIES INTERNAL EXPANSION JOINTS

TYPE	a	b	centre bulb	Rolls
D FS-140	140	40	10	20m.
D FS-200	200	70	10	20m.
D FS-240	240	80	20	20m.
D FS-300	300	100	20	20m.

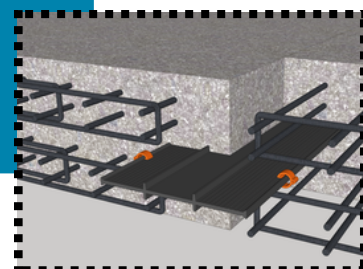
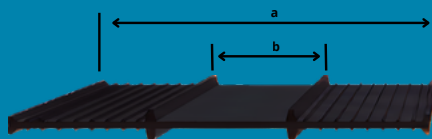


TYPE	a	b	centre bulb	Rolls
HL FS 250	250	25	25	25m.



INTERNAL CONSTRUCTION JOINTS

TYPE	a	b	Rolls
A FS-140	140	40	25m.
A FS-200	200	70	25m.
A FS-240	240	80	25m.
A FS-300	300	100	25m.

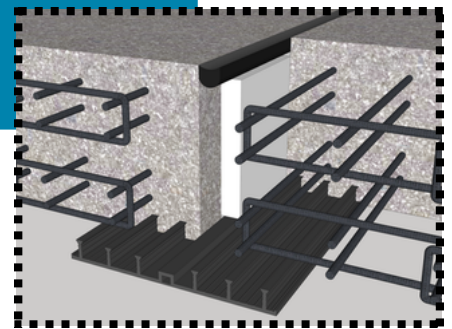
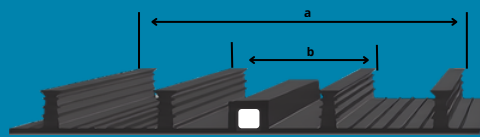


WATERSTOPS BS STANDARD

WATERSTOP FACTORY STANDARD SERIES EXTERNAL EXPANSION JOINT

TYPE	a	b	Bulb	Rolls
DA FS-200	200	80	20	15m.
DA FS-240	240	80	20	15m.
DA FS-300*	300	100	20	15m.

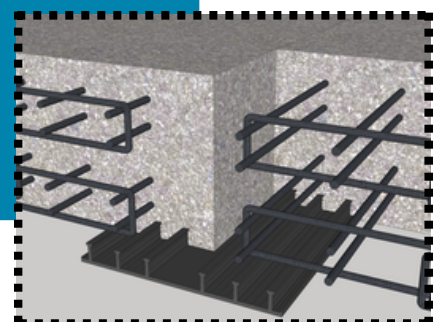
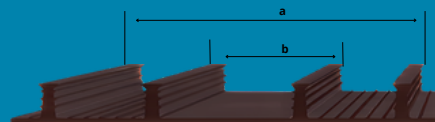
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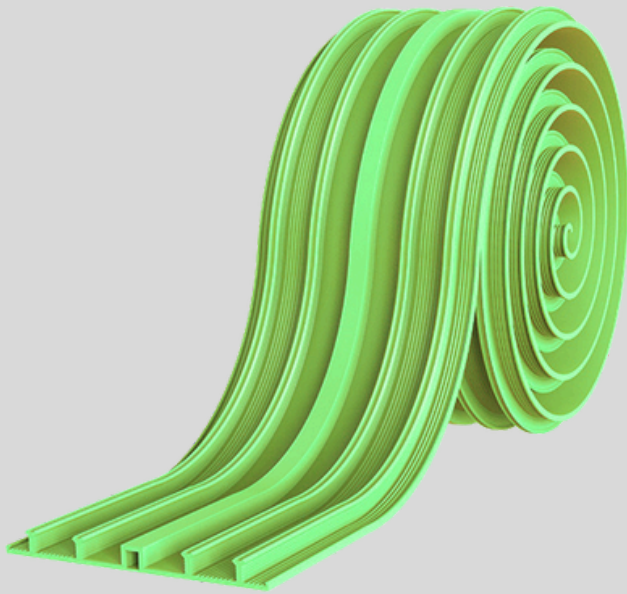


EXTERNAL CONSTRUCTION JOINT

TYPE	a	b	Rolls
AA FS-200	200	70	15m.
AA FS-240	240	80	15m.
AA FS-250	250	80	15m.
AA FS-300*	300	100	15m.
AA FS-320*	320	100	15m.

*6 PINS





BS 2571 STANDARD WATERSTOP SERIES

WATERSTOPS BS STANDARD

BS STANDARD 2571 WATERSTOP SERIES

Waterstop is used for internal and external waterproofing of movement joints in concrete structures in accordance with British standard 2571, which are subject to continuous or occasional loads from pressure water and non-pressure water.

Basis: PVC (according to Factory Standard)

Colour: Green

Application temperature: $\geq 0^{\circ}\text{C}$

Tensile strength, in accordance with EN ISO 527: $\geq 11 \text{ N / mm}^2$

Elongation at break in accordance with EN ISO 527: $\geq 300 \%$

Hardness per ShoreA in accordance with EN 527: 70 ± 5

Tear Resistance in accordance with EN ISO 34-1: $\geq 12 \text{ N / mm}$

Reaction to fire: Normal inflammability

in accordance with EN 13501:(construction class E)

Resistance to Chemicals:

Type

Dilute Acid Very Good

Dilute Alkalies Very Good

Oils and Greases Good (variable)

Sea water Very Good

Aromatic Hydrocarbons Poor

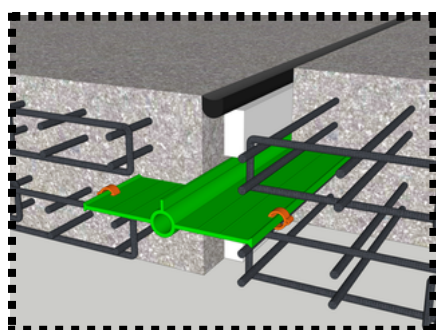
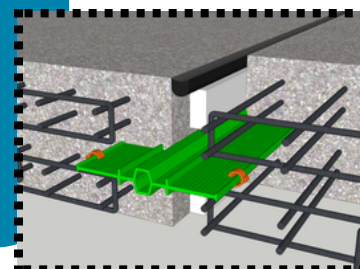
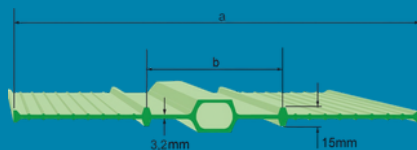
Halogenated Hydrocarbons Moderate (variable)

Alcohols Good (variable)

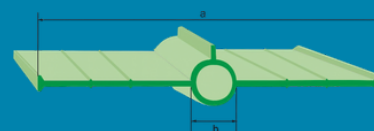
WATERSTOPS BS STANDARD

BS STANDARD WATERSTOP SERIES INTERNAL EXPANSION JOINTS

TYPE	a	b	centre bulb	Rolls
DBS-140	140	40	10	20m.
DBS-200	200	70	10	20m.
DBS-240	240	80	20	20m.
DBS-300	300	100	20	20m.

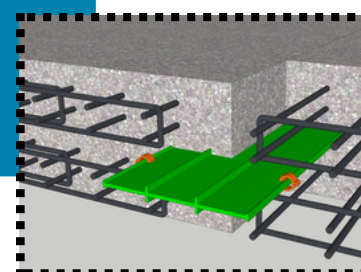
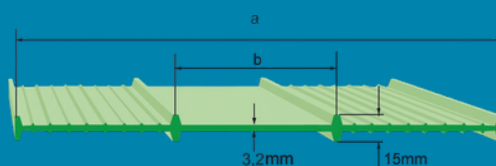


TYPE	a	b	centre bulb	Rolls
HL BS- 250	250	25	25	25m.



INTERNAL CONSTRUCTION JOINTS

TYPE	a	b	Rolls
A BS-140	140	40	25m.
A BS-200	200	70	25m.
A BS-240	240	80	25m.
A BS-300	300	100	25m.

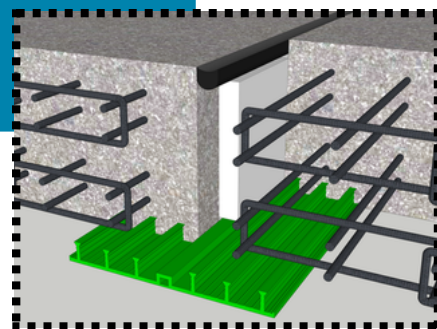
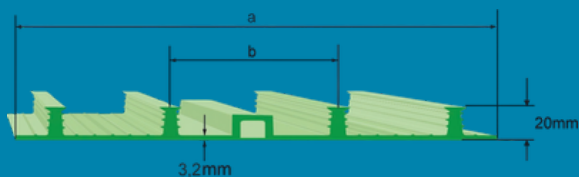


WATERSTOPS BS STANDARD

WATERSTOP FACTORY STANDARD SERIES EXTERNAL EXPANSION JOINT

TYPE	a	b	Bulb	Rolls
DA BS-200	200	80	20	15m.
DA BS-240	240	80	20	15m.
DA BS-300*	300	100	20	15m.

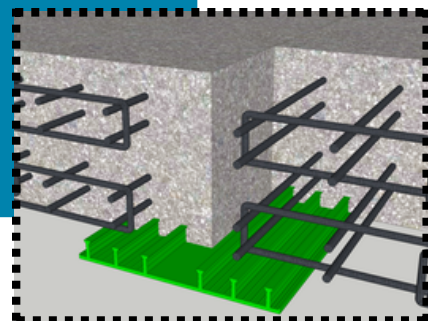
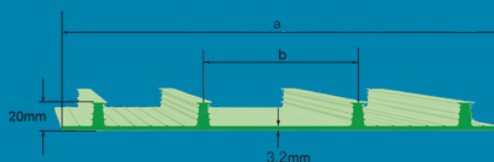
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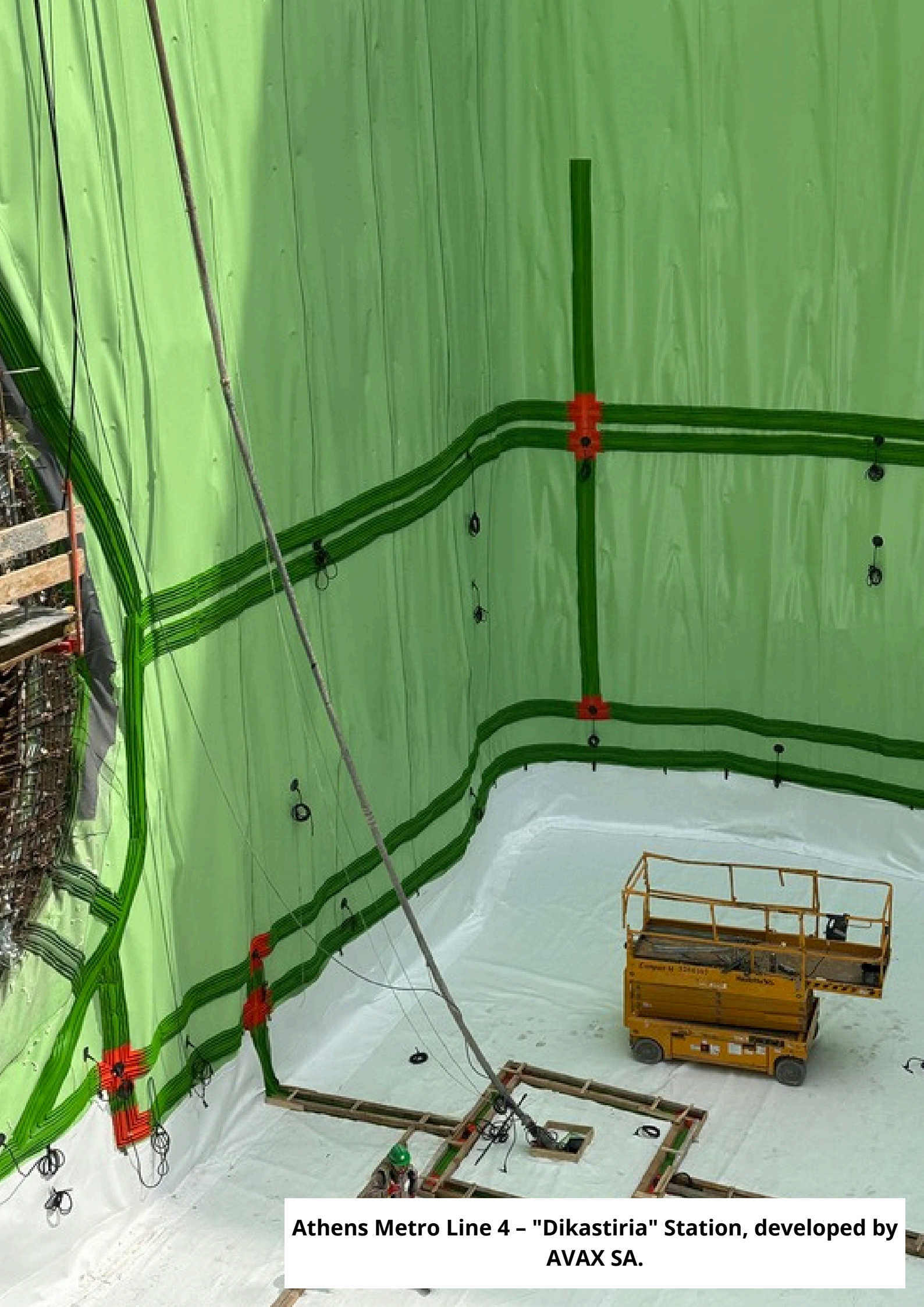


EXTERNAL CONSTRUCTION JOINT

TYPE	a	b	Rolls
AA BS-200	200	70	15m.
AA BS-240	240	80	15m.
AA BS-250	250	80	15m.
AA BS-300*	300	100	15m.
AA BS-320*	320	100	15m.
AA BS-500*	500		15m.

*6 PINS





Athens Metro Line 4 – "Dikastiria" Station, developed by AVAX SA.

DIN 18541 STANDARD WATERSTOP SERIES

WATERSTOP SERIES

DIN 18541 1-2 STANDARD WATERSTOP SERIES

DIN series waterstop is used for internal and external waterproofing of movement joints in concrete structures in accordance with DIN 18541 1-2 standards, which are subject to continuous or occasional loads from pressure water and non-pressure water.

Basis: PVC (according to DIN 18541-2)

Colour: Green

Application temperature: $\geq 0^{\circ}\text{C}$

Tensile strength, in accordance with EN ISO 527: $\geq 12\text{ N / mm}^2$

Elongation at break in accordance with EN ISO 527: $\geq 350\%$

Tear Resistane in accordance with EN ISO 34-1: $\geq 12,7\text{ N / mm}$

Elongation at break at -20°C in accordance with EN ISO 527: $>200\%$

Hardness per ShoreA in accordance with EN 527: 67 ± 5

Reaction to fire: Normal inflammability

in accordance with EN 13501:(construction class E)

Resistance to Chemicals:

Type

Dilute Acid Very Good

Dilute Alkalis Very Good

Oils and Greases Good (variable)

Sea water Very Good

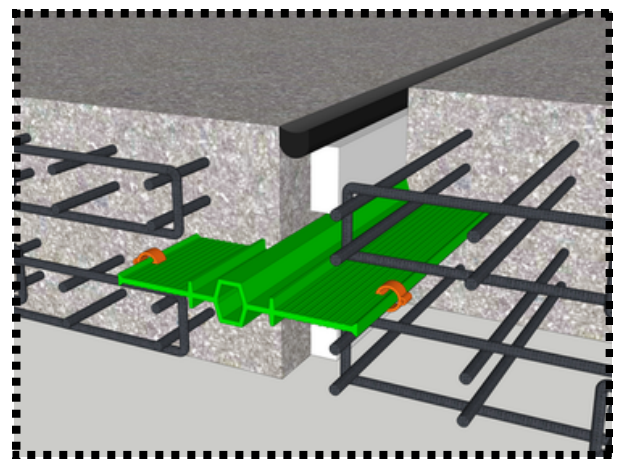
Aromatic Hydrocarbons Poor

Halogenated Hydrocarbons Moderate (variable)

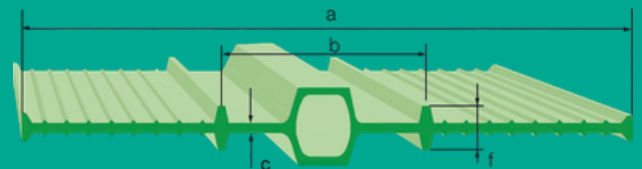
Alcohols Good (variable)

WATERSTOP SERIES

DIN STANDARD WATERSTOP SERIES INTERNAL EXPANSION JOINTS

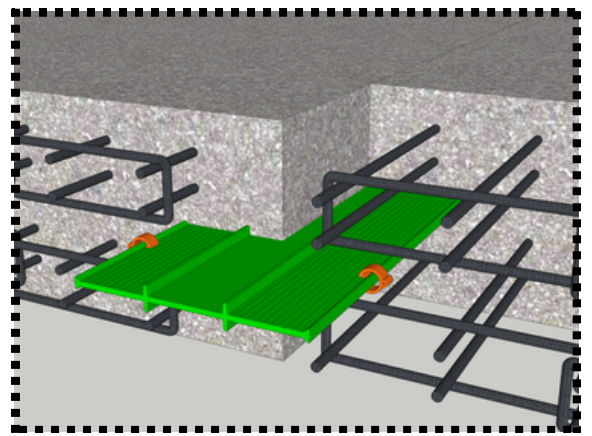


TYPE	a	b	C	F	centre bulb	Rolls
D 190	190	70	4	15	10	10m.
D 240	240	80	4	15	20	10m.
D 320	320	100	5	15	20	10m.
D 400	400	150	5	18	20	10m.
D 500	500	150	6	18	20	10m.

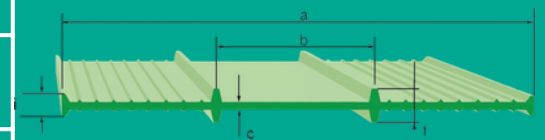


WATERSTOP SERIES

DIN STANDARD WATERSTOP SERIES INTERNAL CONSTRUCTION JOINTS



TYPE	a	b	c	F	i	Rolls
A 190	190	70	3,5	15	15	20m.
A 240	240	80	4	15	15	20m.
A 320	320	100	4,5	15	15	20m.
A 400	400	150	5	18	18	20m.
A 500	500	150	6	18	18	20m.

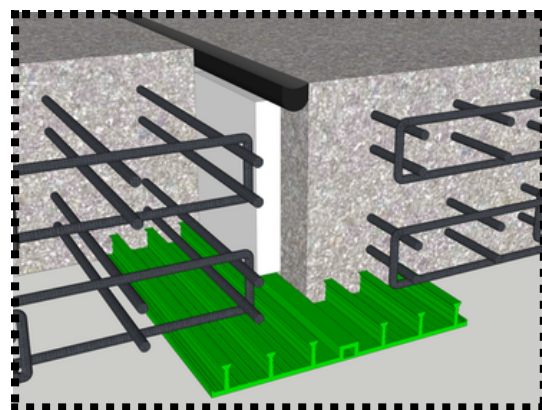


WATERSTOP SERIES

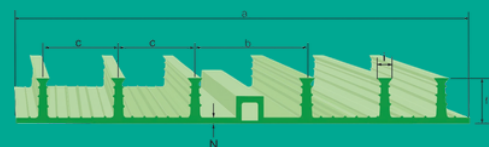
DIN STANDARD WATERSTOP SERIES

EXTERNAL EXPANSION

JOINTS WATERSTOP



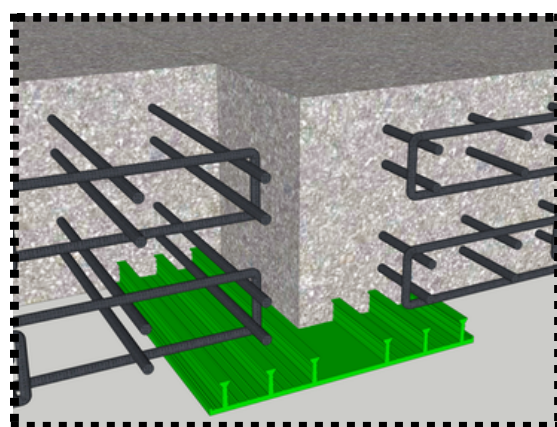
TYPE	a	b	c	F	N	i	Bulb	Rolls
DA 250/20*	250	90	45	25	4	11	20	10m.
DA 250/30*	250	90	45	30	4	11	20	10m.
DA 320/20**	320	100	45	25	4	11	20	10m.
DA 320/30**	320	100	45	30	4	11	20	10m.
DA 500/20**	500	230	45	25	4	11	20	10m.
DA 500/20***	500	230	45	25	4	11	20	10m.



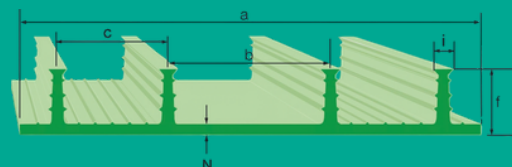
*** 4 PINS**
**** 6 PINS**
***** 8 PINS**

WATERSTOP SERIES

DIN STANDARD WATERSTOP SERIES EXTERNAL CONSTRUCTION JOINTS WATERSTOP



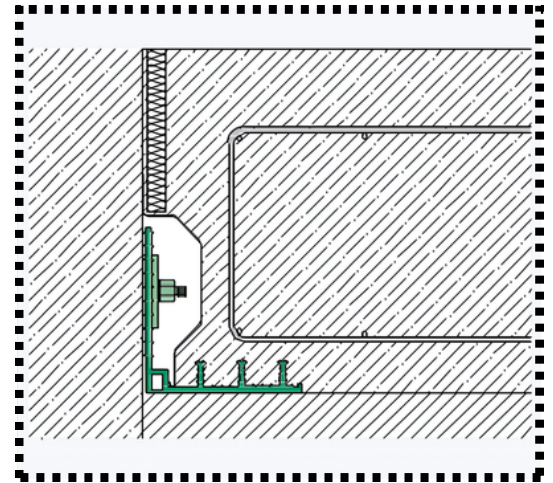
TYPE	a	b	c	F	N	i	Rolls
AA 250/20*	250	90	45	25	4	11	10m.
AA 250/30*	250	90	45	30	4	11	10m.
AA 320/20**	320	100	45	25	4	11	10m.
AA 320/30**	320	100	45	30	4	11	10m.
AA 500/20**	500	225	45	25	4	11	10m.
AA 500/20***	500	225	45	25	4	11	10m.



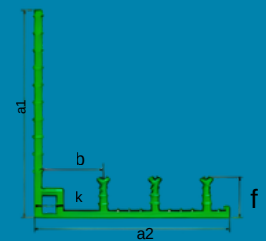
*** 4 PINS**
**** 6 PINS**
***** 8 PINS**

WATERSTOP SERIES

DA 180/170 WATERSTOP TYPE INTERNAL FLANGED JOINT WATERSTOP

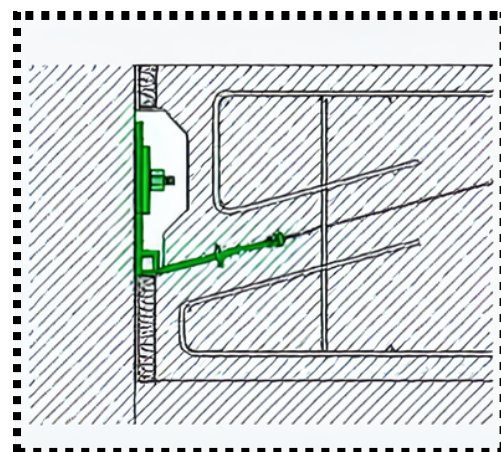


TYPE	a1	a2	k	f	b	Rolls
DA 180/170	180	170	20	35	60	10m.

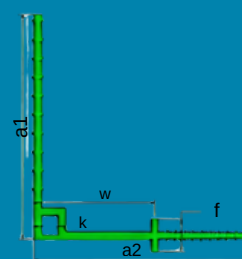


WATERSTOP SERIES

D 180/170 WATERSTOP TYPE INTERNAL FLANGED JOINT WATERSTOP



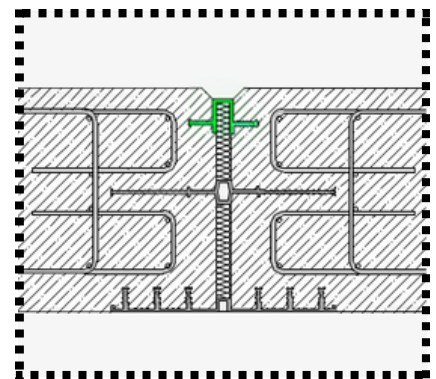
TYPE	a1	a2	k	f	w	Rolls
D 180/170	180	170	20	26	95	10m.



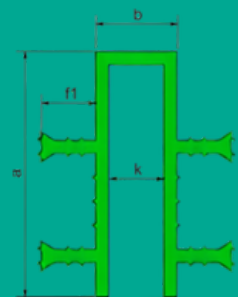
WATERSTOP SERIES

FA 50 /FA 70 / FA 130 WATERSTOP TYPE

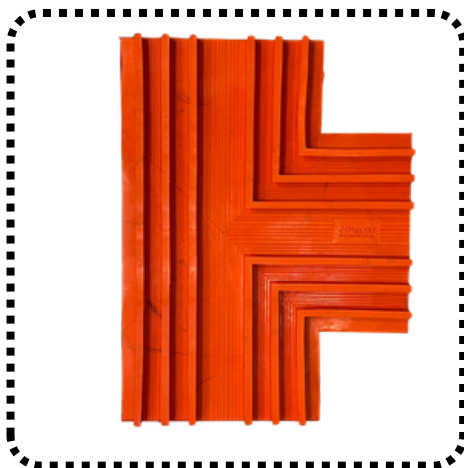
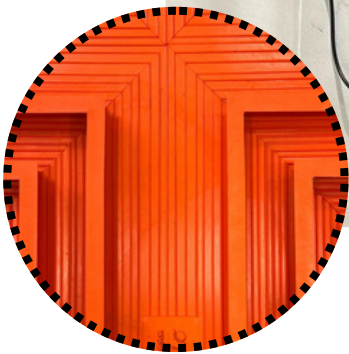
JOINT CLOSING WATERSTOP



TYPE	a	b	f1	k	Number of anchors	Rolls
FA-50	50	30	25	20	2	10m.
FA-90	90	30	25	20	4	10m.
FA-130	130	30	25	20	6	10m.



WATERSTOP INJECTION MOLDED SPECIAL PIECES



Note: The special pieces for the waterstop types AA 250/30 and AA 320/20 are with monoblock injection molding technology.

The MONOBLOCK special pieces are eliminating welding failure during the manufacture of the waterstop intersections.

WATERSTOP WELDED PARTS

flat crossover



flat T



flat corner



vertical crossover



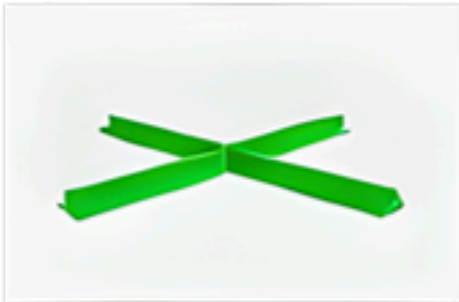
vertical T



vertical corner



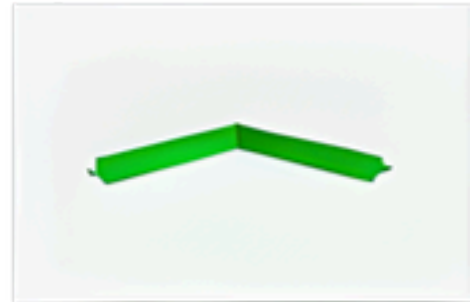
vertical crossover



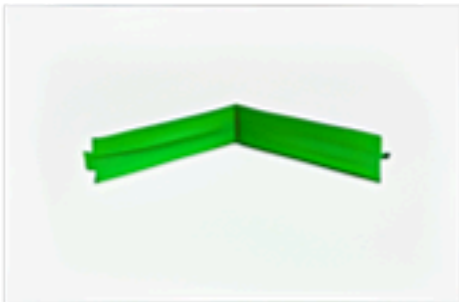
vertical T



vertical corner



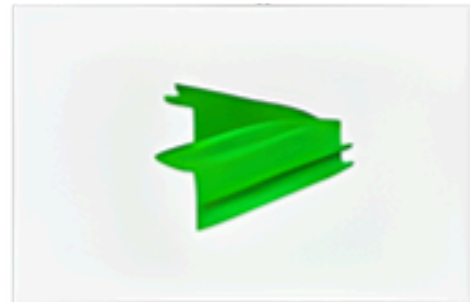
flat corner, external cover plate



mirrored corner



double-angled corner



FIXING CLIPS FOR WATERSTOPS

Easy anchoring of waterstops with more secure placement in place without movement during concreting. Installation-anchoring on the waterstops without holes.



Name	Code	Packing
FIXING CLIP	FIX 20	1000 pcs

Welding Accessories FOR WATERSTOPS

1600W welding hot-air gun



Welding blade

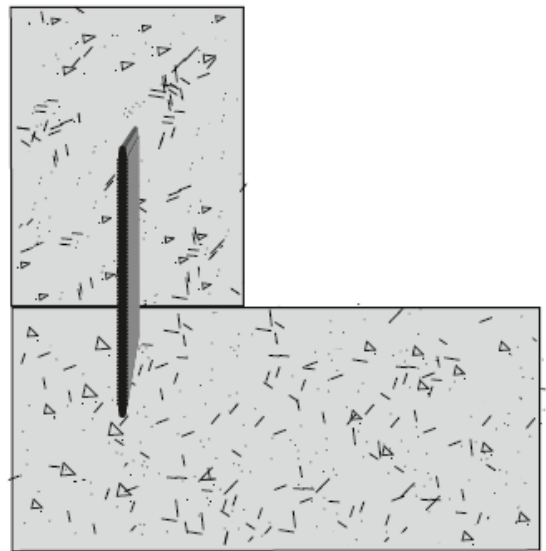


BLADE WATERSTOP

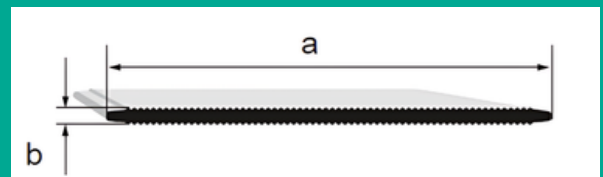


BLADE WATERSTOP SERIES

INTERNAL CONSTRUCTION JOINTS WATERSTOP



TYPE	a	b
GK 80/4	80	4 +/- 0,5mm
GK 100/4	100	4 +/- 0,5mm
GK 120/4	120	4 +/- 0,5mm



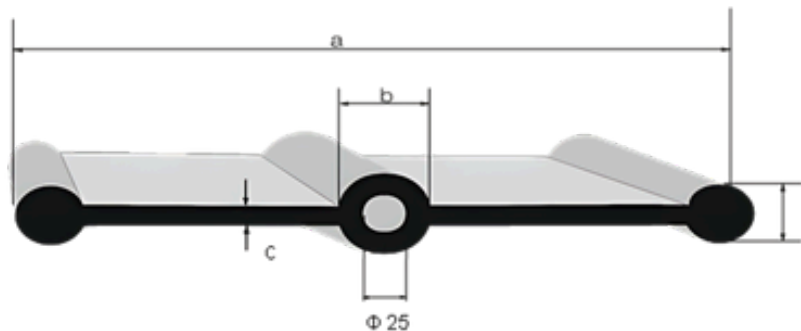
TPE WATERSTOP SERIES



TPE WATERSTOPS

TPE WATERSTOPS INTERNAL EXPANSION JOINTS

TYPE	a	b	f	c
RUB D 150	150	30	19	9,5
RUB D 230	230	30	19	9,5
RUB D 350	350	45	25	10



Tensile strength according to EN ISO 37:

$\geq 10 \text{ N / mm}^2$

Elongation at break according to ISO 37

$\geq 850 \%$

Hardness by Shore A EN ISO 868:

65

Tear resistance ISO 34-1 Method C

25 N / mm

CS 23 ° C / 72h

ISO 815-1 Type B

28 %

CS 70°C / 22h

ISO 815-1 Type B

44 %

CS 100°C / 22h

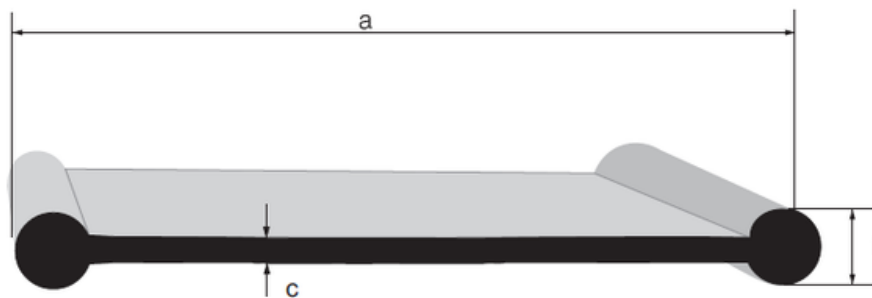
ISO 815-1 Type B

66 %

TPE WATERSTOPS

TPE WATERSTOPS INTERNAL CONSTRUCTION JOINTS

TYPE	a	f	c
RUB D 150 F	150	19	9.5
RUB D 230 F	230	19	9.5



Tensile strength according to EN ISO 37:

$\geq 10 \text{ N / mm}^2$

Elongation at break according to ISO 37

$\geq 850 \%$

Hardness by Shore A EN ISO 868:

65

Tear resistance ISO 34-1 Method C

25 N / mm

CS 23 ° C / 72h

ISO 815-1 Type B

28 %

CS 70°C / 22h

ISO 815-1 Type B

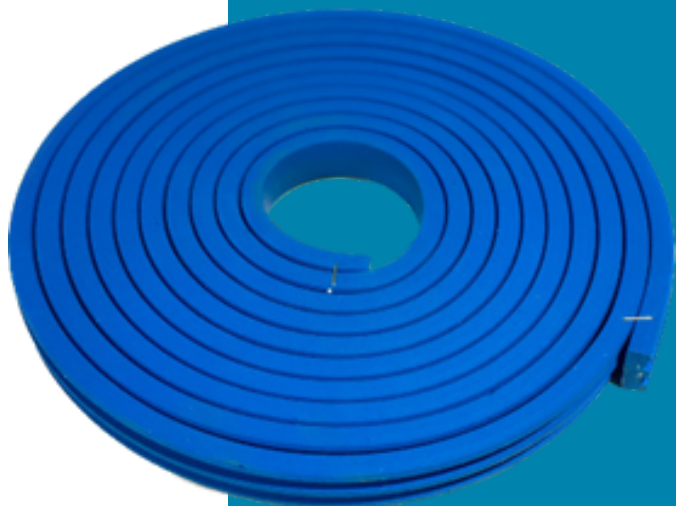
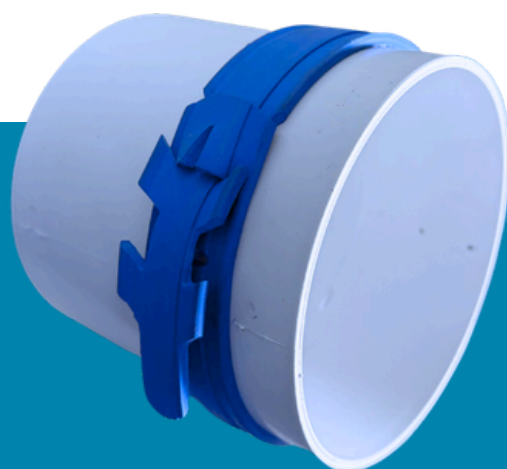
44 %

CS 100°C / 22h

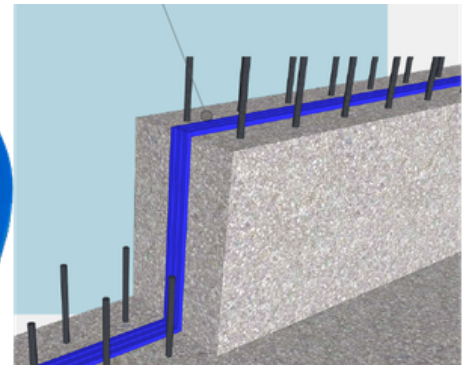
ISO 815-1 Type B

66 %

SWELLING WATERSTOPS SERIES



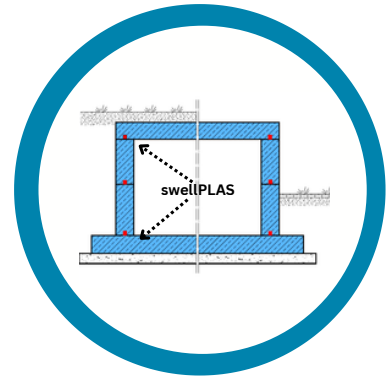
swellPLAS



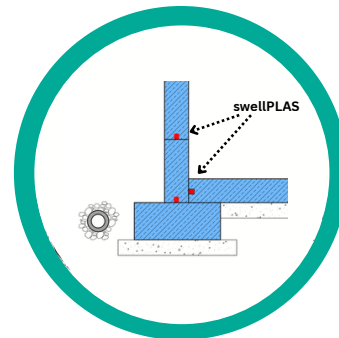
Swellplas is used to seal and waterproof construction joints in concrete with high resistance to water (watertight concrete) against the penetration of water in where are exposed to ground water.

Product features:

- long-term performance
- Easy application and placement
- It doesn't washout like the Bentonite one
- Doesn't lose its swelling capacity
- Self-injecting function into cracks and voids
- Swelling process inexhaustible, often reversible
- Extremely dimensionally stable, even at high temperatures
- Suitable for fresh water and salt water
- Tested over 4 bar water pressure



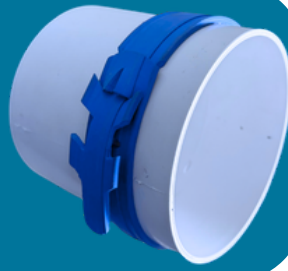
- Easy to apply
- Vertical and horizontal application
- Swelling from 300%-850%
- Available in sizes



Name	Code	Width	Thickness	Swelling
SWELLPLAS LF 5	LF 5	20mm	5mm	350 %
SWELLPLAS LF 10	LF 10	20mm	10mm	350 %
SWELLPLAS L 5	L 5	20mm	5mm	450 %
SWELLPLAS L 10	L 10	20mm	10mm	450 %
SWELLPLAS H 5	H 5	20mm	5mm	850 %
SWELLPLAS H 10	H 10	20mm	10mm	850 %

10 meters per Roll / 5 Rolls per Box

swellBELT



The SwellBelt is designed to provide a more efficient, fast sealing solution. Acts as a high pressure water sealing strap around plastic or any pipe of any diameter in concrete structures.



Name	Code	Diameter	Swelling
SB20	Φ20-100	20-100mm	450%
SB70	Φ70-90	70-90mm	450%
SB110	Φ110-125	110-125mm	450%
SB160	Φ160-200	160-200mm	450%
SB250	Φ250	250mm	450%
SB300	Φ300-320	300-320mm	450%

5 swellBELTS per Box



Quick installation



No more failures

swellRINGS



Water-Swellable Sealing Rings for Concrete Formwork Spacers

swellRINGS is an advanced waterstop ring engineered to eliminate water seepage around the exterior of spacer tubes and tie-rods embedded in concrete.

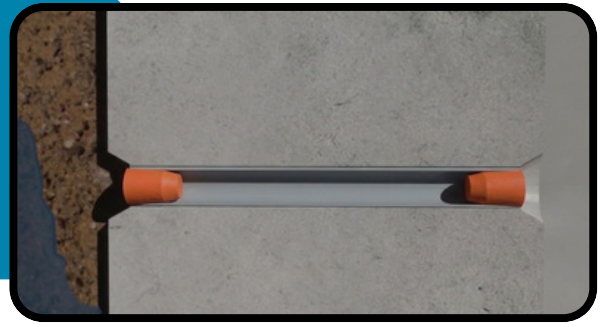
Available in 22 & 35 mm diameter.

Swelling from 300%-850%

Fills for anomalies and air voids in the concrete.



swellPLUGS



Single Piece water-swellaible Sealing Plugs for Concrete Spacers

swellPLUGS offer an innovative, highly reliable solution for waterproofing spacer tubes in concrete structures.

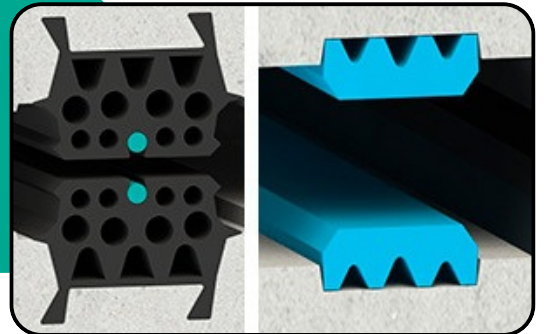
Available in 22 mm diameter.
Swelling from 300%-850%

Made entirely from active water-swellaible material.

Expands upon contact with water to seal the spacer tube against high hydrostatic pressures.



swellCORDS



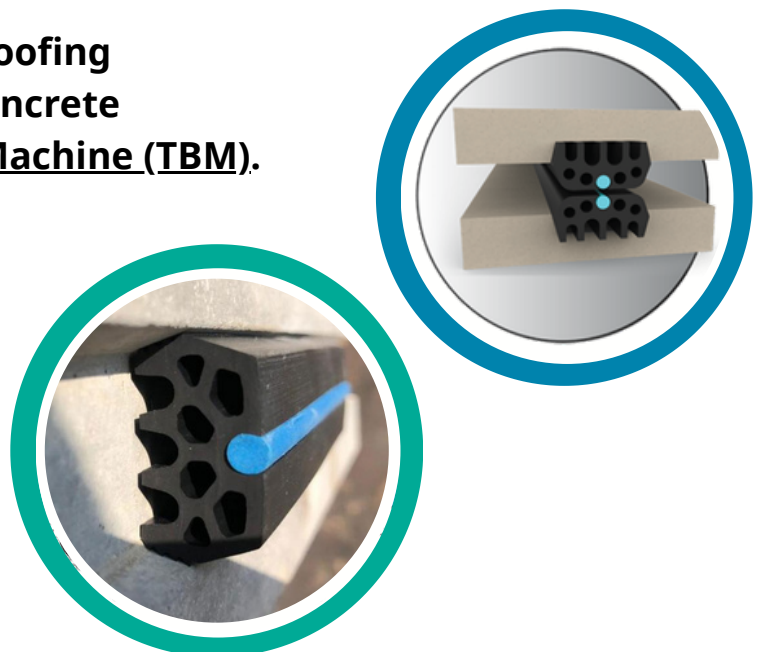
Hydrophilic cords for glued or anchored gaskets

Hydrophilic Sealing is an active waterproofing technology used primarily on precast concrete segments installed by a Tunnel Boring Machine (TBM).

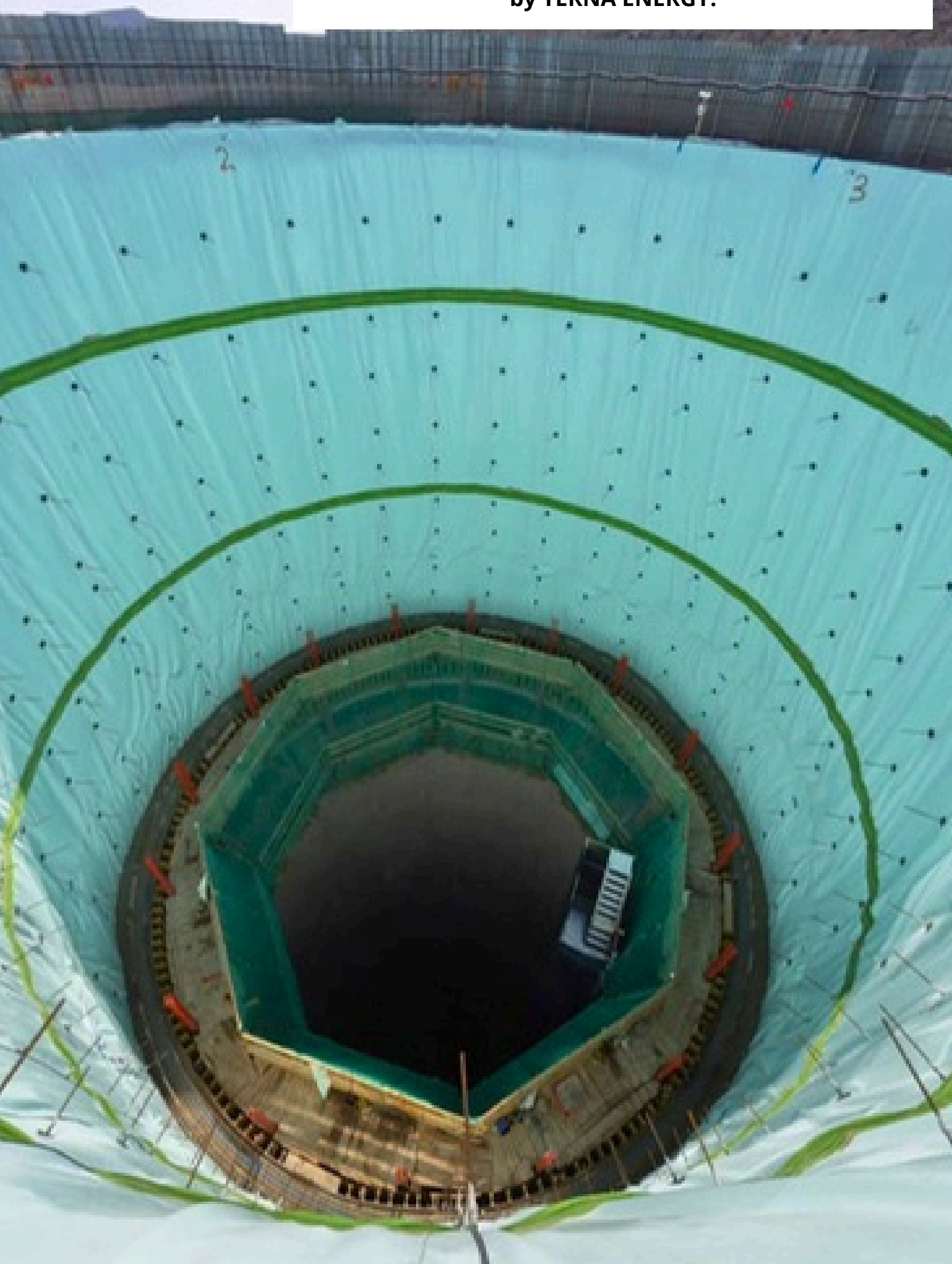
Absorb moisture and expand significantly in volume to fill gaps, voids, and cracks.

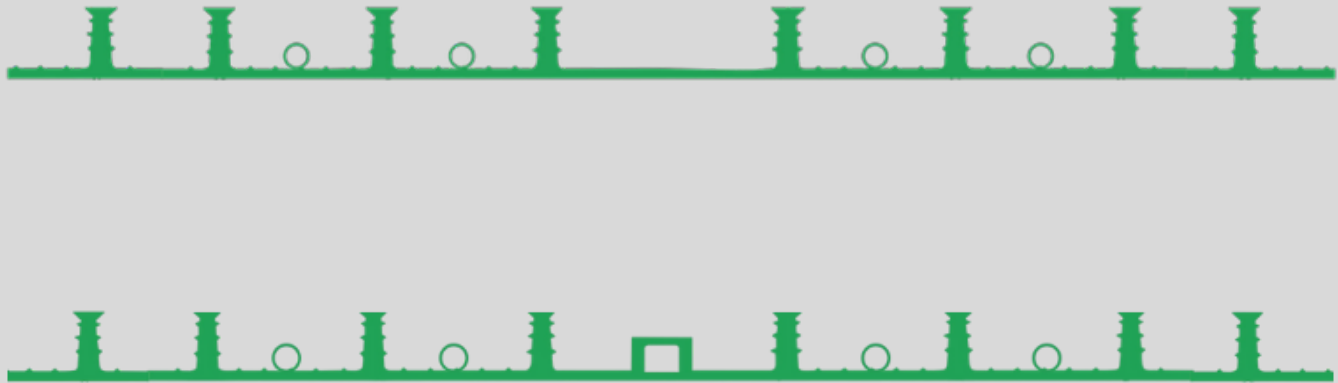
Available in:

- Cords from 4-15 mm diameter
- Strips
- Customized



Hydro Pumped Storage Project in Amfilochia, developed by TERNÄ ENERGY.





Waterstops with Integrated Injection Hoses

TECHNICAL DATA

Basis: PVC (according to DIN 18541-2)

Colour: Green

Application temperature: $\geq 0\text{ }^{\circ}\text{C}$

Tensile strength, in accordance with EN ISO 527: $\geq 12\text{ N / mm}^2$

Elongation at break in accordance with EN ISO 527: $\geq 350\%$

Tear Resistance in accordance with EN ISO 34-1: $\geq 12,7\text{ N / mm}$

Elongation at break at -20°C in accordance with EN ISO 527: $>200\%$

Hardness per ShoreA in accordance with EN 527: 67 ± 5

Reaction to fire: Normal inflammability

in accordance with EN 13501:(construction class E)

Resistance to Chemicals:

Type

Dilute Acid Very Good

Dilute Alkalis Very Good

Oils and Greases Good (variable)

Sea water Very Good

Aromatic Hydrocarbons Poor

Halogenated Hydrocarbons Moderate (variable)

Alcohols Good (variable)

Length: 10-20m

Packaging: Rolls

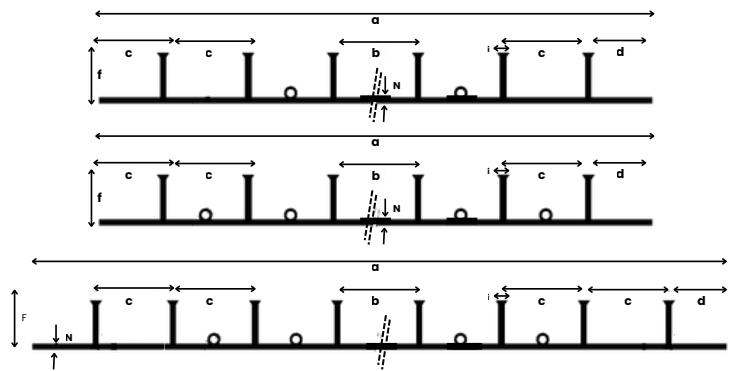
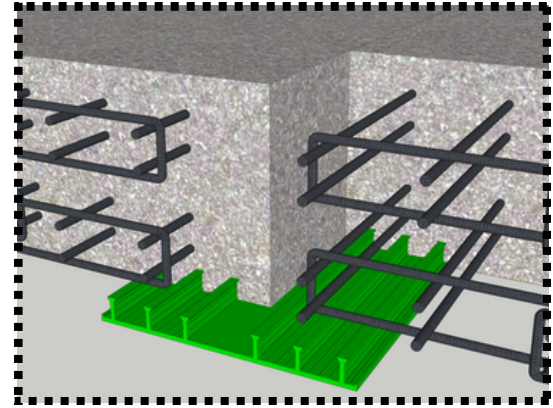
**Store dry, frost-free, weather protected,
min. 18 months**

In general, it is not recommended to use a product after it has expired unless Plastiki Group has given its approval. Only after verifying that the material's primary properties meet specifications may the Plastiki Group's quality assurance department provide this approval.

WATERSTOP SERIES

EXTERNAL CONSTRUCTION JOINTS WATERSTOP

The waterstop AA Injection Hose series is produced for external construction joints **with integrated injection hoses** along the entire length of the waterstop, allowing for intervention and pouring of sealing material in the event of water ingress.



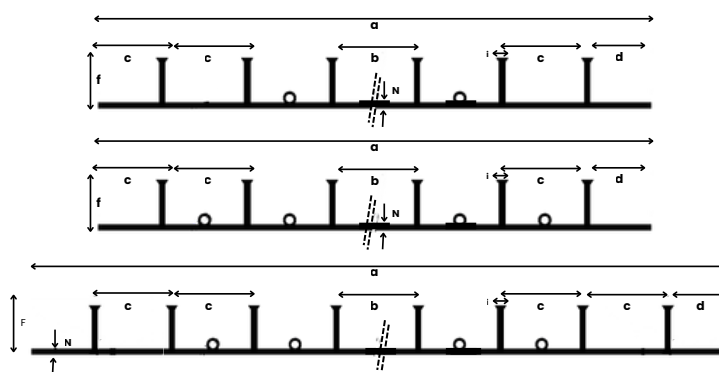
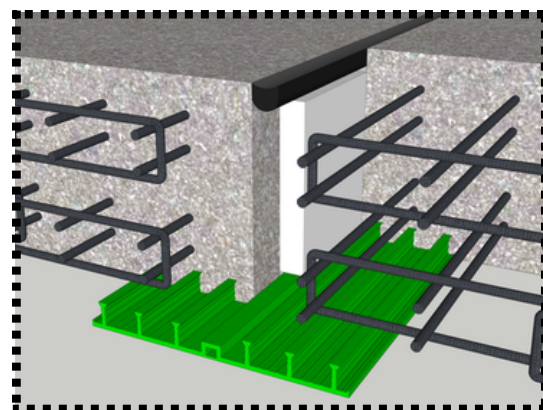
TYPE	a	b	c	f	N	d	i	Pins	Hoses
AA 400/35	400	135	60	34	4	50	11	6	2
AA 600/25	500	160	65	25	4	40	11	8	4
AA600/35	600	220	65	34	4	50	11	6	4

Injection hoses : Interior diameter: 6 mm Exterior diameter: 11 mm

WATERSTOP SERIES

EXTERNAL EXPANSION JOINTS WATERSTOP

The waterstop DA Injection Hose series is produced for external expansion joints **with integrated injection hoses** along the entire length of the waterstop, allowing for intervention and pouring of sealing material in the event of water ingress.



TYPE	a	b	c	f	N	d	i	Pins	Hoses
DA 400/35	400	135	60	34	4	50	11	6	2
DA 600/35	600	220	65	34	4	50	11	6	4

Injection hoses : Interior diameter: 6 mm Exterior diameter: 11 mm

INJECTION HOSE SYSTEM

P11/P19 Injection Hose



INJECTION HOSE FOR WATERPROOFING OF CONSTRUCTION JOINTS IN CONCRETE

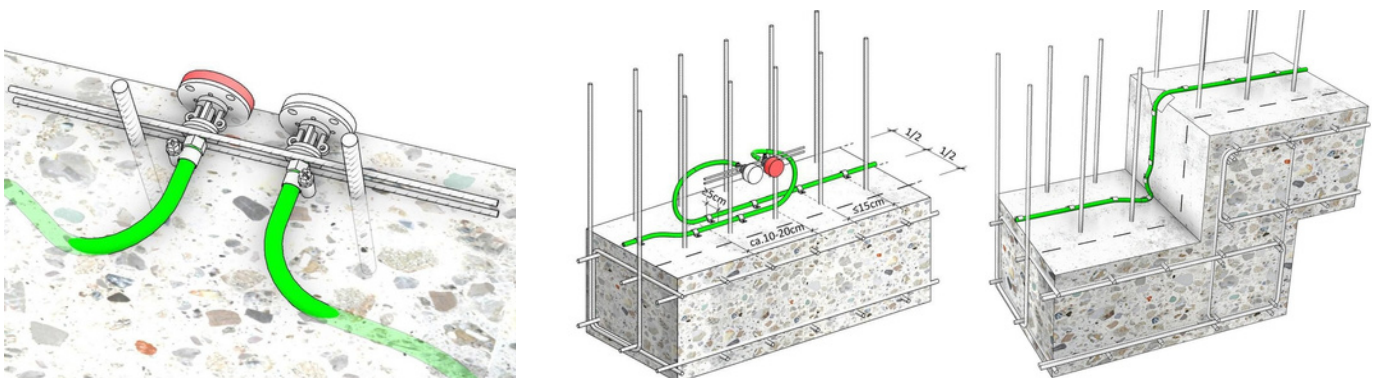
The P11/P19 injection pipe is a single wall flexible PVC injection pipe tested and developed for injection of horizontal and vertical casting joints in reinforced concrete. The unique design and flexibility of the hose allow the P11 to have an injection length of 30 meters.

The smooth surface of the grouting hose prevents unwanted bonding between the concrete and the outer surface of the hose, which eliminates unwanted kinks.

The hose can be injected with various injection agents, e.g. polyurethane, acrylics and cement (P19 only).

The injection hose is usually used as a secondary seal along with other primary joint insulators and should always be grouted at a later stage.

Name	Code	Internal Diameter	External Diameter	m./roll
P11 IH	P11	6mm	11mm	50m./100m.
P19 IH	P19	11mm	19mm	50m./100m.



P11/P19 Injection Hoses

Injection Hose Accessories

CODE:IPA21



Slat impact packer made of plastic, screwed-in steel cone nipple with check valve, M6 internal thread for pressing cracks in screed and concrete, suitable for dry and damp cracks for cavity filling in concrete parts. Suitable for horizontal barrier to prevent the rising of soil moisture. Packer spacing depends on the thickness of the component.

Dimensions:

diameter: 10mm length: 100mm
10mm length: 75mm

CODE:IPA78



Nail packer for injection hoses, with wood screw thread and including red or white protective plug, for sealing construction joints red for venting side, white for filling side

Dimensions:

internal thread: M8
height: 55 mm

CODE:IPA75



Hose packer for injection work for connection to injection hoses.

Dimensions:

Hose thread 8 mm, M8
hexagon 13 mm
Length 65 mm

CODE:IPA51



Round plastic adhesive packer with enclosed HD head nipple M8 for screwing. Use with dry components

Dimensions:

adhesive surface: 50 mm
high: 26 mm

CODE:IPA74



Plastic connection piece with wood screw thread on both sides for connecting injection hoses.

free passage 0,3 mm

Dimensions:

length: 68 mm
diameter: 8 mm

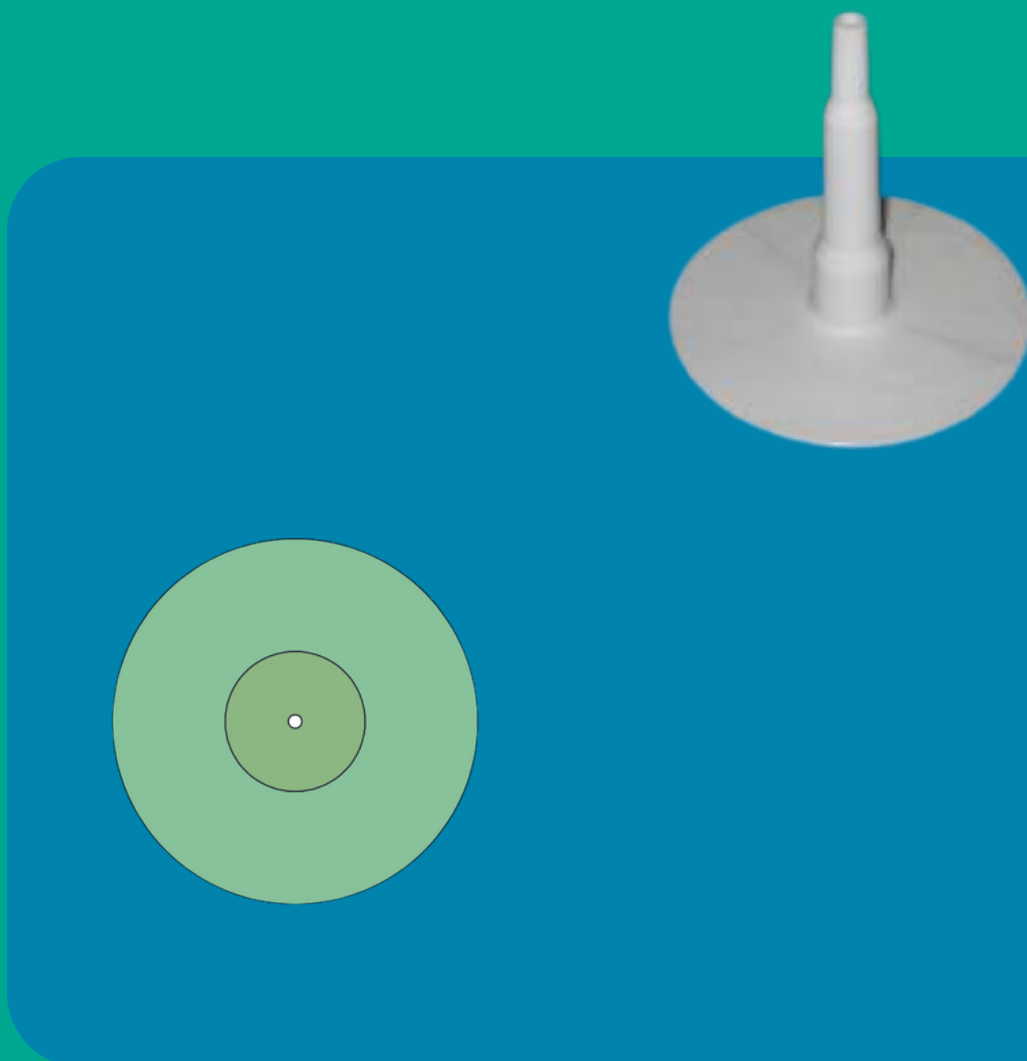
CODE:IPA90



Fixation for injection hose. injection hose system for sealing structural joints.

Drill hole diameter 6mm

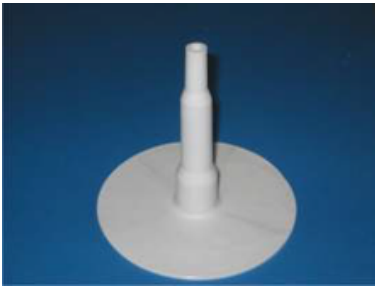
ACCESSORIES FOR PVC MEMBRANES



PIPE FITTING



Pipe fittings are used to seal the membranes during installation and cover the injection pipe. The injection pipe fitting has a smooth flange for welding to PVC or PE membranes and a central stem consisting of three stages. Pipe fittings are welded to the membranes with a special hot air blower, heating gun.

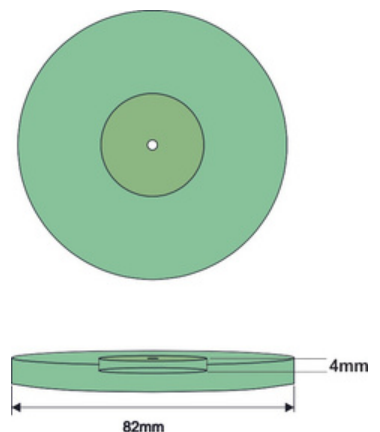


Name	Code	Package
PIPE FITTING	PF	50 pcs

PVC DISCS

Discs for the waterproofing mount of membrane

DISCS are used to mount the membrane to the tunnel's wall. Once the discs have been attached to the wall, the waterproof membrane is welded (glued) to the discs by using special hot air blowers. The discs must be welded with a special heating gun. The distance between them must be about 70-80 cm when you install them. The whole surface of the discs must be welded to the PVC sheet to ensure greater watertightness in the event of pressure from standing water.



Name	Code	Package
PVC DISC	RD 80 pvc	500 pcs



NOTES

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