

ROCK WATER STOP

PVC profile water stops for joint sealing

Product Description

ROCK WATER STOP are flexible waterstops based on plasticized PVC, produced in specific profiles to seal construction and expansion joints when cast in concrete. They are available in a range of different sizes and types according to their use.

Uses

ROCK WATER STOP are used to waterproof construction- and expansion joints in concrete structures such as those in water retaining structures - Including reservoirs, canals, sewage plants, dams, swimming pools etc. Plus those in the watertight construction of many buildings and structures including large basements, underground carparks, subways and sea walls etc.

Characteristics / Advantages

- High quality PVC for long durability
- Suitable for high water pressure
 - Easy to weld on site
 - Many different sizes and types available, dependent on the application

Tests

Approval / Standards

ROCK WATER STOP have been tested in accordance with:

BS 903, BS 2571 (May 2006) ASTM D 412-75 (04.07.00) ASTM D 638 (06.05.01)

Product Data

Form

Colours

For construction joints	Types V, AK, AR, Forte	Grey - black
For expansion joints	Types DK, O, M, NOQ, DR	Yellow
Oil- and bitumen resistant waterbars	See separate details	Green

Packaging

10 m rolls 15 m rolls

30 m rolls

Dependent on type and size.

Types

	Uses	Туре	Width cm	Roll length m	Nominal thickness mm (±10%)	Water pressure resistance m
•	Centrally placed Waterbars Installation in the centre of concrete	V-15	15	30	2.5 - 5.0	5
	structures. Easy anchoring of ROCK WATER STOP to reinforcement with special fixing clips.	V-20	20	30	3.0 - 7.0	15
		V-20 L	20	30	2.0 - 4.0	15
For construction joints		V-24	24	30	2.5 - 4.0	15
uctior		V-32	32	30	2.5 - 5.5	25
onstr		AK-19	19	30	2.5 - 3.5	5
Forc		AK-24	24	30	3.0 - 4.0	15
		AK-32	32	30	3.0 - 4.0	25
		Forte-19	19	30	3.0	5
		Forte-24	24	30	3.0	15
	Reinforced	Forte-32	32	30	3.5	25
		DK-19	19	30	3.0	5
		DK-24	24	15	3.0	15
		DK-32	32	15	3.0	25
	Max. 20 mm expansion and 10 mm shear movement	O-15	15	15 and 30	2.5	5
		O-20	20	15	3.0	5
		O-20 L	20	15	2.0 - 3.5	5
	CO	O-22	22	15 and 30	3.5	10
S		O-22 L	22	15	2.5 - 4.0	10
Joint r		O-25	25	15	3.5 - 5.0	15
For expansion joints		O-25 L	25	15	2.0	15
r exp		O-30	30	15	4.0 - 8.0	25
Po		O-32	32	15	3.5 - 5.0	150
		O-32 L	32	15	2.5	25
		NOQ-15	19.5	15	2.0 - 3.0	5
	Max. 10 mm expansion and 5 mm shear movement	NOQ-22	27	15	3.0 - 4.0	15
	• · · · · · · · · · · · · · · · · · · ·	M-22	22	15	5.0	5
	Max. 40 mm expansion and 30 mm shear movement	M-25	25	15	2.5 - 5.0	15
		M-35	35	15	4.0 - 7.0	150
Construction joints	Surface Waterbars	AR-20*	20	15	3.5	5
	Installation on the surface of concrete structures	AR-25*	25	15	3.5	10
		AR-28	28	15	3.5	15
		AR-31	31	15	4.0	15
	<u> </u>	AR-50**	50	15	4.0	25

CONSTRUCTION

	Uses	Туре	Width cm	Roll length m	Nominal thickness mm (±10%)	Water pressure resistance m
	Max. 10 mm expansion and 5 mm shear movement (DR-21*, DR-26*)	DR-21*	21	15	3.5	5
		DR-26*	26	15	3.5	5
n join	strioi r	DR-29	29	15	3.5	15
Max. 10 mm expansion and 10 mm shear movement (DR-29, DR-32, DR-50)	DR-32	32	15	4.0	15	
Ē	Max. 10 mm expansion and 10 mm shear movement	DR-50	50	15	4.0	25

^{*} With 4 pins

Joint Finishing Types

Max. 10 mm expansion and 5 mm shear movement	Туре	Width cm	Roll length m	Nominal thickness mm (<u>+</u> 10%)	Water pressure resistance
	FA 3 - 10	3/10	10	~ 5	Not resistant

The waterpressure resistance for each waterbar as shown in the tables are indicative figures based on experience and subject to a proper cast of the waterbar into the concrete. The figures only indicate the waterpressure resistance of the Rock Water Stop.

Junction / Jointing Pieces:

A wide range of standard junction pieces are available for jointing. All have a 30 cm free wing, allowing easy butt-welding on site. For the supply of non-standard sections, drawings must be provided giving the exact details and measurements required.

Types of junction:

- Cross piece flat
- Cross piece vertical
- T-piece flat
- T-piece vertical
- L-piece flat
- Corner piece vertical (pins inside or outside)

Special Waterbar Types (available on request):

- Bitumen and oil resistant Waterbars
- NBR-Waterbars
- Polyolefin Waterbars
- Additional Waterbars or specialised types and other custom made products can be produced according to our clients specification on request

Storage

Storage Conditions / Shelf-Life

60 months from date of production if stored in unopened, undamaged and sealed original packaging, in dry conditions at temperatures not exceeding +30°C. Protect from UV light.

Technical Data

Chemical Base	Plasticized Polyvinyl Chloride (PVC-p)
Density	~ 1.4 g/cm ³ (± 0.1 g/cm ³)
Service Temperature	-35°C to +55°C

CONSTRUCTION

Mechanical / Physical Properties					
Tensile Strength	Waterbars for construction joints: ≥ 10 N/mm²	(DIN 53455)			
	Waterbars for expansion joints: ≥ 10 N/mm²	(DIN 53455)			
Tear Strength	Waterbars for construction joints: ≥ 12 N/mm	(DIN 53507 A)			
	Waterbars for expansion joints: ≥ 12 N/mm	(DIN 53507 A)			
Shore A Hardness	Waterbars for construction joints: 70 ± 5, (Type Forte: 80 ± 5)	(DIN 53505)			
	Waterbars for expansion joints: 70 <u>+</u> 5	(DIN 53505)			
Elongation at Break	Waterbars for construction joints: > 200%	(DIN 53455)			
	Waterbars for expansion joints: ≥ 300%	(DIN 53455)			
Resistance					
Chemical Resistance	·	d sewage at temperature of +23°C alis, mineral acids and mineral oils			
Alkali Resistance	Approved according to the specification of CR	D-C 572-65			
Instructions Application Method / Tools	Centrally Placed Waterbars: Installation in the centre of the concrete struct	ures. Easy anchoring of			
	ROCKWATERSTOP to reinforcement with special fixing clips (5 pieces per m').				
	Centrally Placed Reinforced Watebars (Type Forte): Installation as with centrally placed waterbars. Due to their external reinforcement ROCK WATER STOPType Forte are more dimensionally stable and less fixing clips are necessary (approx. 2 pieces per m').				
	Surface Waterbars: Installation on the surface of the formwork or on the surface of the base / drylean blinding concrete.				
	Joint Finishing Types: Installation by pushing onto the formwork or onto the joint lining.				
	Welding: ROCK WATER STOP are made from thermoplastic PVC, and can therefore be heat welded easily. The ends must be secured into a welding clamp (available for each type) and cut precisely. Then the cut edges must be heated with suitable welding equipment (also available), until an even, molten bead of PVC appears. The welding equipment is then removed and the molten ends pressed firmly together immediately.				
	The welding temperature is ~ +200°C.				
Notes on Application / Limitations	In situations with negative water pressure surface waterbars cannot be used.				
Value Base	All technical data stated in this Product Data S				



Al-Obour Buildings - Salah Salem Road - Nasr City - Cairo - Egypt. 10th Of Ramadan City.



+202 240 456 35



info@CityChem.net





+2010 277 810 11 +2010 672 213 44

The Information Herein is Based on Our Present Knowledge and Experiences. This Information Merely Describes the Properties of Our Products but No Guarantee In the legal Sense Shall Be Implied. We Recommend Testing Our Products As To Their Suitability For Your Envisaged Purpose Prior To Use.

No Warranties Of Any Kind, Either Express or Implied Including Warranties of Merchantability or Fitness For a Particular Purpose Are Made Regarding Any Products Mentioned Herein and Data or Information That Such Products, Data or Information May Be Used Without Infringing Intellectual Property Rights of Third Parties.

We Reserve The Right To Make Any Changes According To Technological Progress or Further Developments.

This Copy Replaces Al Previous Versions – Printed in Egypt - 2020.

Actual measured data may vary due to circumstances beyond our control.

