

HYDRO EXPANSIVE RING AND CONNECTOR

WATERPROOFING SYSTEMS



Updated on 05/28/2024

Description and denomination

System comprising a hydro-expansive ring and where appropriate a connector for a form tie. The connector is used with lost forms (without spacers).

The hydro-expansive ring is made of a water-swellaable synthetic rubber. It acts as an external seal.

The form tie connector is made of a water-swellaable synthetic rubber and wraps around the form tie. Water that enters into contact with it is immediately stopped by the speed and force of the swelling of the connector.

Application

1- Use with a watertight spacer:

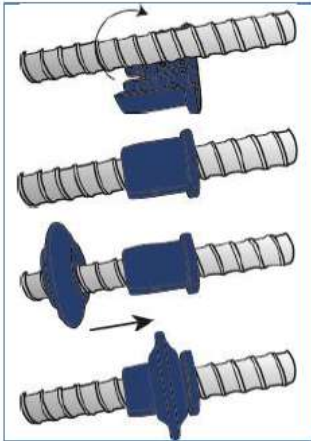


- Slightly moisten the interior of the hydro-expansive ring to facilitate installation
- Slide the watertight hydro-expansive ring onto the watertight spacer up to its final position



We strongly advise against installation in rainy weather because it can lead to premature swelling, making installation impossible.

2- Use in lost forms:



- Different connectors are available for the commonest types of form tie. Make sure that the connector fits well on the form tie used.
- The connector must be installed in the middle of the form tie and be covered by at least 100mm of concrete. Close the connector around the form tie.
- The hydro-expansive ring allows the attachment of the connector. Different ring sizes are available. Make sure to use the right combination (refer to the table below).
- Slide the watertight hydro-expansive ring onto the form tie connector. Moisten the hydro-expansive ring to facilitate installation.



We strongly advise against installation in rainy weather because it can lead to premature swelling, making installation impossible.

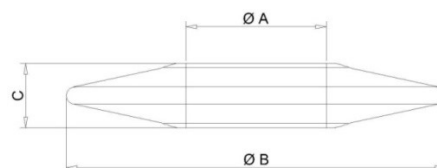
Technical Data

	Hydro expansive ring	Connector
Hardness	± 25° Shore A	± 35° Shore A
Tensile strength	>2MPa	>2MPa
Ultimate elongation	300 %	400 %
Service temperature	-50°C / +70°C	-20°C / +75°C
Swelling capacity in rain water	500%	500%
Swelling capacity in concrete water	400%	400%
Swelling capacity in salt water	200%	
Weather resistance	Excellent	Excellent
Chemical resistance	Good overall chemical resistance, but we advise to be careful with aromatic oils and fuels, with vegetal oils and strong aromatic solvents. Contact our sales department for detailed specific information	

Sizes and packaging

1- Hydro-expansive ring:

Code	Name	Inside ø A (mm)	Outside ø B (mm)	Width (mm) C	Compatible with spacers with external ø (mm)
100417	HYDRO-EXPANSIVE RING D26	24	53.5	15	24-30
100418	HYDRO-EXPANSIVE RING D31	31	68.5	15	31-38



Code	Name	Pcs/bag	Pcs/box	Pcs/pallet	Weight per 100 (kg)
100417	HYDRO-EXPANSIVE RING D26	100	700	12.600	1.70
100418	HYDRO-EXPANSIVE RING D31	50	500	9.000	3.30

2- Form tie connector:

Code	Name	For form tie	Associated ring	Sold in multiples of	Standard packaging	Weight per 100 (kg)
100396	D15 CONNECTOR	Ø15-17	D26	50	2500	1.24
100416	D20 CONNECTOR	Ø20-23	D31	50	2500	1.80

Certificates

- Detailed reports and certificates available on request
- The safety data sheet is available on request

The information provided in this document is for guidance only and reflects our current knowledge. We shall not be responsible or liable for any improper or inappropriate use of our products.

Given the wide range of possible uses, our recommendations do not exempt users from carrying out their own tests. Our laboratory and technical department will be happy to provide you with any information you may require.

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