

HANDLED BY

Per-Erik Thorsell

DATE

Älvkarleby, 2011-06-17

REFERENCE

PR.117.52A

PAGE

1 (1)

HyDratec Scandinavia AB  
Utkällevägen 16  
694 91 HALLSBERG

## TYPE TESTING OF HYDRA RX 101 SWELLING STRIP

Testing has been conducted in accordance with Vattenfall Research & Development AB's "REGLER FÖR CERTIFIERING AV PRODUKTER FÖR TÄTNING AV STUMMA FOGAR MOT VATTEN".

The swelling strip arrived and began to be tested in December 2010. The tests were concluded in February 2011.

**Product:** Hydra Rx 101 Swelling strip (20 x 25mm)  
**Permitted water pressure:** 0.3 MPa (30 m water column) Tested at 0.5 MPa  
**Permitted joint movements:** No joint movements were permitted.

### Test methods

Functional testing in accordance with VU-SC:15. As requested, deviation from the method was made by testing with 2% salt water (NaCl) instead of water.

Weight change in the case of free swelling in accordance with VU-SC:32

Profile design in accordance with: VU-SC:33

Alkali resistance in accordance with: VU-SC:34

Property	Test result	Requirement
Functional testing	Excellent tightness	Excellent tightness
Change in weight in the case of free swelling	Water +317% NaCl +100% CaOH <sub>2</sub> +203% CaSO <sub>4</sub> +73% NaOH +71%	Min 5% weight increase for all solutions
Profile design	20.0 x 25.9 mm	20 x 25 ± 5%
Alkali resistance	43% weight increase	Max. 5% weight decrease

### Assessment

Hydra Rx 101 swelling strip meets the requirements in accordance with the above-mentioned rules.

Best regards



Per-Erik Thorsell (responsible for the assignment)

This report may only be quoted in its entirety, unless SWEDAC and the issuing laboratory approve otherwise in advance and in writing.  
The test results relate only to the tested specimens.

VATTENFALL RESEARCH AND DEVELOPMENT AB

CONCRETE TESTING

POSTAL ADDRESS

814 26 ÄLVKARLEBY

TELEPHONE

026-835 00

FAX

026-835 30

E-MAIL

betongprovning@utveckling.vattenfall.se

WWW

www.vattenfall.se/foretag  
then "Anläggning och Materialteknik"