Technical and Testing Construction Institute Prague, s.p.
Branch 0100 – Prague
Testing laboratory no. 1018.5
Accredited by the Czech institute for accreditation according to CSN EN/IEC17 025
Prosecká 811/76a, 190 00 Prague 9, phone: 286 019 400, fax: 286 884 209

Protocol

No. 010 – 026090

About testing of concrete liner WILDSTONE

This protocol contains four written pages including title page and no annexes.

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RNDr. Vojtech Hotzel
Head of the Testing laboratory

In Prague, March 15, 2010

1. Information about the Customer

Customer:	Wild Stone International, s.r.o Podhořská 806/31 184 00, Prague 8
Request:	Z 010 10 0086

2. Specification of the Required Test

2.1. Product:	Concrete lining WILDSTONE
2.2. Specification of the tests:	Determination and classification of the water vapor permeability according to CSN EN ISO 7783-2
2.3. Sample collection and preparation:	Testing sample – concrete lining WILDSTONE has been collected and delivered to the laboratory by the employee of branch 0100 – Prague RNDr. Vojtech Hotzel 2010-02-23. The test samples have been prepared for the testing according to the relevant standard.

3. Test Methods, Directives and Procedures

3.1. The test methods from the following Standards have been used:

CSN EN ISO 7783-2 OPRAVA 1:2002	Paint materials – coating materials and systems for external masonry and concrete – Part 2: Determination and classification of permeability for water vapors

3.2. Information about deviations from the test procedure: Number of test samples – 2

4. Testing Device

- slide caliper range 0 – 150 mm, ID 194
- weight Sartorius type LP 1200 S, range 0 – 1200 g, ID 336
- air conditioning chamber Gallenkamp – Sanyo, ID 66
- hygrometer with thermometer, ID 256

Test devices and measurement equipment used during the testing are certified by metrology. Calibration and certification sheets are stored in metrology laboratory.

5. Test Results

The testing was performed between 2010-03-08 and 2010-03-12.

5.1. Determination and classification of the water vapor permeability degree.

Laboratory environment: air temperature 23°C, relative air humidity 51%.

The test environment in the air conditioning camber: air temperature 23°C, relative air humidity 50%. Diameter of the dishes 120 mm. Saturated water solution of ammonia dihydrogenphospor has been used.

Average width d (m)	0,0157
Water vapor permeability V [g/(m^2.d)]	17,78
Diffusion equivalent of air layer thickness s_d (m)	**1,19**
Classification of water vapor permeability – class	**V_2** – medium*

* Classification according to CSN EN 1062-1.

6. Information about the Author of the Protocol

Testing organization:	Technical and testing construction institute Praha, s. p. Prosecká 811/76a, 190 00 Prague 9
Testing laboratory:	Branch 0100 – Prague Testing laboratory no. 1018.5 Prosecká 811/76a, 190 00 Prague 9, phone: 286 019 400, fax: 286 884 209

Technical head of the laboratory for OSH testing:

Ing. Zdeněk Kočí ……

Responsible specialist:

Vlastimil Valeš ……

Supplement of the testing laboratory:

The results are valid only for the tested samples. The protocol may not be reproduced without approval of the testing laboratory other than whole. The protocol or its parts may not be modified.

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RNDr. Votech Hotzel
Head of the testing laboratory