SYNPO, akciová společnost
S. K. Neumanna 1316
532 07 Pardubice - Zelené Předměstí
Czech Republic

Department of Evaluation and Testing
Testing Laboratory No. 1105.2 accredited by CAI according to ČSN EN ISO/IEC 17025:2018

TEST REPORT
T 370/008-3

Name and contact information of the customer	**SAINT-GOBAIN ADFORS CZ s.r.o.** Sokolovská 106, CZ 570 01 Litomyšl, Czech republic
Test item(s)	**Nature Original** Glassfibre wallcovering
Test procedure/method	Test N^{o} 31 **Determination of water-vapour transmission rate** *ČSN EN 7783*
Date of receipt of item(s)	January, 12, 2022
Internal laboratory number	22 0097
Date of the test	January, 17, 2022 – February, 2, 2022
Tested by	Inka Černíková, Dr. František Herrmann
The report made by	Dr. František Herrmann

This report contains 3 pages and 0 annex.

TEST LABORATORY ACCREDITED by CIA ACCORDING TO ČSN EN ISO/IEC 17025 SYNPO, akciová společnost, Pardubice
SYNPO Department of Evaluation and Testing No.1105.2

Digitálně podepsal Ing. Vladimír Špaček, CSc.

In Pardubice on February, 24, 2022

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Dr. Vladimír Špaček
Head of testing laboratory

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DESCRIPTION OF THE TEST ITEM

Sample name	**Nature Original**
Item characteristic:	Glassfibre wallcovering
Internal lab number	22 0097

TEST PROCEDURE / METHOD

Test Number 31 – Determination of water-vapour transmission rate

Test method identification:	*ČSN EN ISO 7783 - Paints and varnishes - Determination of water vapour-transmission properties – Cup method.*
Method:	Dry cup method. The test was performed for a self-supporting coating.
Coating application:	Circular targets with a diameter of 90 mm were mechanically cut from the supplied sample of fiberglass wallpaper. The target weight and thickness were determined before sealing into the dishes.
Aging of samples:	The aging of the sample was carried out under laboratory conditions according to ČSN EN 23270, i.e. at a temperature of (23 ± 2) ° C and a relative humidity of (50 ± 5) % for 8 days.
Conditioning:	The conditioning of the samples before the test was performed according to method A.
Test procedure:	Dishes containing desiccant (anhydrous calcium chloride, dried at 200 ° C). The sample was sealed in a cup with a 60:40 mixture of paraffin and beeswax face up. The dishes were placed in an air-conditioned space. Number of dishes: 3. The diameter of the wax template was 80 mm and the area of the dish was A 50.26 cm^2. Weights of 0.1 mg (Mettler, GmbH, Germany) were used to weigh the dishes.
The evaluation of test:	The test specimen weight increase versus time of test in hours was plotted and the straight line (linear regression in Excel) was constructed. The slope of this line expresses the diffusion flow of the water vapor G through the test cup. The water vapor transmission rate V, expressed in grams per square meter and a day, is then obtained by converting G for 24 hours and for 1 square meter. Subsequently, the thickness of the equivalent air layer sd was calculated according to equation (10).
The date of test:	The weighing took place from 21 January 2022 to 2 February 2022
Any deviation from the test procedure:	None

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DESCRIPTION OF THE TEST ITEM

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RESULTS

DETERMINATION OF WATER VAPOUR PERMEABILITY BY A CUP METHOD ACCORDING TO ČSN EN ISO 7783

Parameter		Cup 1	Cup 2	Cup 3	Mean	Dimension
Water – vapour transmission rate	**V**	28,31	33,51	27,96	**29,93 ± 3,11**	**[g.m^{-2}.den^{-1}]**
Water –vapour diffusion-equivalent air layer thickness	**s_d**	0,84	0,71	0,85	**0,80 ± 0,06**	**[m]**

- The end of the test report -