

TEST LABORATORY

The test laboratory is accredited in compliance with DIN EN ISO/IEC 17025 by the Deutsche Akkreditierungsstelle GmbH. The accreditation is also valid for products of Regulation EU 2016/425. Test methods not included in the scope of accreditation are marked by a *.



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TEST REPORT

Order no. STFI: P2025 2417.3

Order no. applicant: none

Report date: 20th November 2025

Testing officer: Reinhardt

Applicant:
Zimmer+Rhode GmbH
Frau Meike Ludwig
Zimmersmühlenweg 14-18
61440 Oberursel

Testing application:

of: 3rd November 2025

order receipt on: 3rd November 2025

sample receipt on: 11th November 2025

Material to analyse:

signed by client	code for order processing
Reflekt FR RE colour: 3103	P2417_25_7

Sampling was carried out by the client; the testing laboratory has no information on this.

Analysis content:

(1) Measurement of translucent areas (openings) of fabric structure in accordance with test method PM 20 (DIN EN 14500: 2021-09). The relation of openings to the total area, consisting of fabric material and openings, defines the "openness factor" according to ASHRAE Fundamentals: 2001, p. 30.49. The method includes image-analytical field measurements on flat structures in transmitted/incident light under diffuse illumination.

Conditions for the openness factor:

For each sample 10 images are recorded, detected as binary images and concerning their area parts analysed. In the case of the present sample measuring areas of 8,2 mm² were used for the calculation, so that in total an area of 0,82 cm² was analysed.

Equipment:

- Microscope (Co. Wild)
- Image analysis system Vidmess (Co. Thalheim Spezialoptik)

Test results:**(1) Openness factor**

Code	area parts of openings [mm ²]		relative area parts of openings [%] („openness factor“)	
	mean value	standard deviation	mean value	standard deviation
P2417_25	7	1,55	0,11	18,9

Further information on the test procedures or results are available at the accredited testing laboratory and can be provided to the client upon request.

The test results refer to the delivered specimen. This test report shall not be published in parts. The testing period is defined as timeframe between receipt of the sample and issue date of test report.

All materials received in connection with this order will be stored for a maximum period of six months unless agreed otherwise. Exempted from this practice are materials which will not be stored due to technical or safety-related reasons.

A handwritten signature in blue ink, appearing to read 'p.p. Sh'.

Dipl.-Ing. Marian Hierhammer
head of test department

A handwritten signature in blue ink, appearing to read 'i.V. S. Schrot'.

Patrick Reinhardt, M.Sc.
field responsible collaborator