



TECHNICKÝ A SKÚŠOBNÝ ÚSTAV STAVEBNÝ, n. o.
BUILDING TESTING AND RESEARCH INSTITUTE, Slovak Republic
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Testing laboratory

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TEST REPORT No. 80-23-1139

JOB

No.: 80230179
Client: ALPINA GRATE s. r. o.
Hlavná 50
080 01 Prešov
Slovakia

OBJECT OF TESTING

Product: Glass fibre reinforced polymer (GFRP) bars, diameter 8 mm
Manufacturer: identical with the client
Manufacturing plant: ALPINA GRATE s. r. o., Stročín 122, 089 01 Stročín, Slovakia
Technical specifications: for the purpose of issuing of SK Technical Assessment

PRODUCT SAMPLE

Description of sample: 30 pcs of glass fibre reinforced polymer bars, diameter 8 mm
Designation of sample by client: ALPINA GRATE s. r. o. composite reinforcement in bars, diameter 8 mm
Production date: not listed
Place and date of sampling: manufacturing plant, date not listed
Sampler: client
Place and date of delivery: testing laboratory Prešov, 08.06.2023
Designation of sample by lab: 598/2023

TESTS

Compression properties – compression strength

Test procedure: GOST 31938: 2012 Fibre-reinforced polymer bar for concrete reinforcement
Description of test specimens: 3 pcs of glass fibre reinforced polymer, diameter 8 mm
Test specimens prepared by: Pavel Repka
Test conditions: 20,6 °C
Deviation from the standard: none
Date of test: 04.12.2023
Test personnel: Pavel Repka

TEST RESULTS:

Table No. 1 – compression properties of glass fibre reinforced polymer bars, diameter 8 mm

Test specimen No.	Measured diameter	Calculated cross-section area	Tensile strength	
	<i>d</i>	<i>A</i>	<i>F_c</i>	<i>R_c</i>
	(mm)	(mm ²)	(kN)	(MPa)
1	6,90	37,39	31,852	851,9
2	6,95	37,93	26,900	709,2
3	6,96	38,04	31,747	834,6


Date of report:

19.12.2023

Prepared by:

Ing. Roman Oravec

Authorized by:


Ing. Martin Šutlák
Head of Laboratory Branch



Notes:

- If the sampling of the product was not performed by a test laboratory worker, the data on the manufacturer, production and sampling are given according to information provided to customers. If the information provided to the customer may affect the validity of the results, the test laboratory disclaims any responsibility for the validity of the results.
- The tests were performed in accordance with the above test procedures.
- The stated expanded uncertainty *U* is based on the standard uncertainty multiplied by the coverage factor *k* = 2, which in case of the normal distribution provides a level of confidence of approximately 95%.
- The results obtained only apply to the product sample.
- The test report may be reproduced in its entirety without the written consent of the test laboratory.

----- End of test report -----