



CERTIFICATE OF COMPLIANCE AND DECLARATION OF MECHANICAL / PERFORMANCE TEST DATA

Last Update: February, 2021

Product: BasaFlex™ Basalt Fiber Reinforced Polymer Rebar

USPTO Office & Trademark: Patents Pending for Product & Process; Serial No. 88916279

Product ID /Model #'s: BF3B; BF4B; BF5B; BF6B; BF7B; BF8B

This is to certify that the Products noted herein, and as manufactured by Basanite Industries, LLC, have been independently examined and tested by the University of Miami and the University of Sherbrooke, and in accordance with the Standard(s) indicated on this Certificate, and found to be in compliance with, and exceed the performance values required by ACI 440.1R-06 Guide for the Design and Construction of Structural Concrete Reinforced with FRP Bars.

Additionally, the evaluation for BasaFlex™ BFRP Rebar was conducted using Acceptance Criteria for ICC-ES 454, and FDOT Section 932-3, Fiber Reinforced Polymer (FRP) Bars, and observed to substantially exceed all minimum requirements for each category.

Mechanical Testing	#3 (6 mm)	#4 (13 mm)	#5 (16 mm)	#6 (19 mm)	#7 (22 mm)	#8 (25 mm)
Tensile Strength (MPa)	1125	1252	1156	1011	914	817
Tensile Strength (Psi)	163,168	181,587	167,664	146,633	132,565	118,496
Tensile Peak Load (kN)	80	162	230	287	352	417
Modulus of Elasticity (GPa)	57	60	58	54	52	49
Modulus of Elasticity (MSI)	8.27	8.7	8.41	7.83	7.56	7.11
Transverse Shear Strength (MPa)	67	65	66	63	61	60
Interlaminar Shear Strength (MPa)	59	55	60	51	51	51

Please inquire with the Basanite Engineering Team for design recommendations; to see how you can specify and utilize BasaFlex™ in your next project.

Vesna Stanic

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Jesus Escalona

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