



# CERTIFICATE OF COMPLIANCE AND DECLARATION OF MECHANICAL / PERFORMANCE TEST DATA

**Last Update:** January, 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 examined and tested in accordance with the Standard(s) indicated on this Certificate, and found to be in compliance with 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)	1133.76	1100.52	1119.63	1069.22	1034.37	1002.75
Tensile Peak Load (kN)	89	146	225	303	393	489
Modulus of Elasticity (GPa & MSI)	89.6 / 12.99	78.8 / 11.43	89.7 / 13.01	93.2 / 13.51	88.7 / 12.86	86.0 / 12.47
Horizontal Peak Load (kN)	7.9	13	20	27	35	48
Transverse Shear Peak (MPa)	101	98	100	95	92	91
Transverse Shear Strength (MPa)	67	65	66	63	61	60

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*

Vesna Stanic, PhD – Materials Scientist  
Director of Quality Assurance for Basanite