

Certificate of Constancy of Performance 1029 – CPR – GB19/964030

In compliance with **Regulation 305/2011/EU** of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Polymer fibres for concrete, described in annex.

placed on the market under the name or trade mark of

BarChip Inc.

1-4 Nakadori, Mizushima, Kurashiki City, Okayama, 712-8502, JAPAN

and produced in the manufacturing plant

PT Hagihara Westjava Industries

Jl. Tol Jakarta – Cikampek km 47, Kawasan Industri KIIC, Jl. Harapan I Lot KK - 2A, Karawang 41361, INDONESIA

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 14889-2:2006

under system 1 for the performance set out in this certificate, are applied and that

the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product

This certificate is valid from 10 February 2022 until 10 September 2024, and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

Issue 4. Certified with SGS since 17 February 2010.

Authorised by



Luís Neves
Certification Management

SGS ICS – Serviços Internacionais de Certificação, Lda Notified Body 1029

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Certificate of Constancy of Performance

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Annex 1

Product(s): Polymer fibres for concrete.

Trademark	Technical Characteristics	Performance
BarChip Shogun	Tensile strength (MPa)	509 - 591
	Modulus of Elasticity (MPa)	5850 - 7150
	Effect on consistency of concrete (dosage: 5,0 kg/m ³)	Vebe time: 14 s
	Length (mm)	45,6 - 50,4
	Equivalent Diameter (mm)	0,85 - 0,93
	Classification	Class II
BarChip 54	Tensile strength (MPa)	537 - 624
	Modulus of Elasticity (MPa)	10080 - 13200
	Effect on consistency of concrete (dosage: 4,0 kg/m ³)	Vebe time: 12 s
	Length (mm)	51,3 - 56,7
	Equivalent Diameter (mm)	0,81 - 0,89
	Classification	Class II
BarChip MQ58	Tensile strength (MPa)	555 - 645
	Modulus of Elasticity (MPa)	5850 - 7150
	Effect on consistency of concrete (dosage: 7,0 kg/m ³)	Vebe time: 8 s
	Length (mm)	55,1 - 60,9
	Equivalent Diameter (mm)	0,64 - 0,70
	Classification	Class II
BarChip 48	Tensile strength (MPa)	544 - 736
	Modulus of Elasticity (MPa)	8500 - 11500
	Effect on consistency of concrete (dosage: 3,0 kg/m ³)	Vebe time: 9 s
	Length (mm)	43,0 - 53,0
	Equivalent Diameter (mm)	0,35 - 1,05
	Classification	Class II

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Product(s): Polymer fibres for concrete.

Trademark	Technical Characteristics	Performance
BarChip R50	Tensile strength (MPa)	519 - 702
	Modulus of Elasticity (MPa)	7100 - 9500
	Effect on consistency of concrete (dosage: 3,5 kg/m ³)	Vebe time: 10 s
	Length (mm)	43,0 - 53,0
	Equivalent Diameter (mm)	0,45 - 1,35
	Classification	Class II
BarChip DucTil	Tensile strength (MPa)	561 - 759
	Modulus of Elasticity (MPa)	11900 - 16100
	Effect on consistency of concrete (dosage: 3,0 kg/m ³)	Vebe time: 11 s
	Length (mm)	51,0 - 63,0
	Equivalent Diameter (mm)	0,33 - 0,98
	Classification	Class II
BarChip 2024	Tensile strength (MPa)	629 - 731
	Modulus of Elasticity (MPa)	8190 - 10010
	Effect on consistency of concrete (dosage: 4,5 kg/m ³)	Vebe time: 8 s
	Length (mm)	22,8 - 25,2
	Equivalent Diameter (mm)	0,50 - 0,56
	Classification	Class II
BarChip R65	Tensile strength (MPa)	564-656
	Modulus of Elasticity (MPa)	7650-9350
	Effect on consistency of concrete (dosage: 3,5 kg/m ³)	Vebe time: 11 s
	Length (mm)	61,8-68,3
	Equivalent Diameter (mm)	0,86-0,95
	Classification	Class II

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