GALEN™

THE COMPOSITES OF THE FUTURE

BBA APPROVAL INSPECTION TESTING CERTIFICATION
Agrément Certificate 09/4697

Management System ISO 9001:2008
TÜVRheinland CERTIFIED
www.tuv.com ID 9105048520

RUSNANO

Система добровольной сертификации продукции наноиндустрии «НАНОСЕРТИФИКА»

Certificates

- Certificate of conformance
  № POCC RU.MH05.H00254,
  № POCC RU.AГ43.H00537.

- GOST P 54923-2012 Composite
  wall ties for multilayer enclosure
  structures. Technical Specifications

- BBA Certificate (The British Board
  of Agrément) No.09/4697.

Structure

ROCKBAR®: Sand coated or bare BFRP bars
of a circular section and specified length.

BFRP bar with
uniform saud coating

ROCKBAR®
COMPOSITE REBARS

Intended use

ROCKBAR® composite rebars are intended for reinforcement of prestressed and non-prestressed construction structures and elements, such as foundations of buildings and structures, concrete floors and road surface.

Areas of application

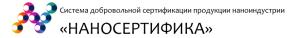ROCKBAR® should be used in accordance with the following design solutions:

RESIDENTIAL CONSTRUCTION AND CIVIL ENGINEERING	■ Foundations of buildings and structures ■ Repair and reinforcement of bearing capacity of brick and reinforced concrete structures
INDUSTRIAL CONSTRUCTION	■ Reinforcement of concrete reservoirs, storages of treatment facilities, lids of sewage wells ■ Elements of chemical production infrastructure ■ Reinforcement of concrete floors ■ Hydraulic structures
ROAD ENGINEERING	■ Reinforcement of road surface ■ Overhead poles ■ Road, airfield slabs; sulfur concrete slabs
BRIDGE ENGINEERING AND STRENGTHENING	■ Bridge deck slabs ■ Bridge guardrails ■ Pedestrian footpaths ■ Reinforcement of onshore structures
RAILROAD CONSTRUCTION	■ Elements of concrete sleepers for high speed railroads and metro railways

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BBA APPROVAL INSPECTION TESTING CERTIFICATION — TECHNICAL APPROVALS FOR CONSTRUCTION — Agrément Certificate 09/4697

TÜVRheinland CERTIFIED — Management System ISO 9001:2008 — www.tuv.com ID 9105048520

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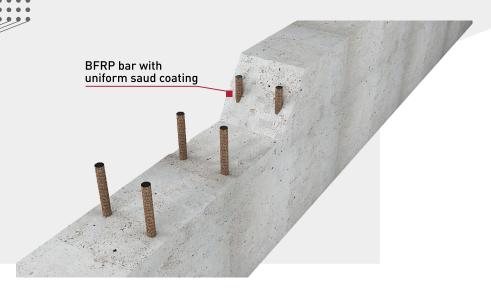Система добровольной сертификации продукции наноиндустрии «НАНОСЕРТИФИКА»

Advantages

The use of ROCKBAR® allows for increase of structure's lifetime, reduction of maintenance, reduction of costs for transportation due to the following characteristics:

ABSOLUTE CORROSION RESISTANCE, ALKALI RESISTANCE;
HIGH STRENGTH;
LIGHT WEIGHT;
LOW THERMAL CONDUCTIVITY;
DURABILITY;
ABSOLUTE ECO-FRIENDLINESS, FIRE SAFETY.

BFRP bar with uniform saud coating

Technical characteristics

Characteristic	BFRP rebars
Length	up to 12 m (Ø up to 10 mm – in coils)
Diameter	2 – 16 mm
Tensile modulus, not less than	50 GPa
Density	2.0 g/cm3
Thermal conductivity coefficient	< 0.46 W/(m°C)
Elongation coefficient	2.5 %
Heat resistance	300 °C

Physical and mechanical properties depending on rebars' diameter

Rebars' diameter	BFRP rebars	
	Ultimate tensile stress, MPa, not less than	Bending stress, MPa, not less than
2	1000	1000
4	1000	1000
5	1000	1000
6	1000	1000
8	1000	900
10	1000	900
12	900	900
14	800	900
16	800	800