

# TECHNOBASALT® REBAR

Basalt non-metallic rebar  
of periodical profile (ANPB)

- Tensile strength is three times stronger than of steel.
- Four times lighter than steel.
- Has high corrosion resistance in all environments.
- Dielectric, non-magnetic, not subject to electrochemical corrosion.
- Has excellent adhesion to concrete and close thermal expansion coefficient.
- Has low thermal conductivity.
- Working temperature range is from -70 to + 160 °C.
- Does not require welding, lifting mechanisms, has low logistics cost.

## Table of steel rebar replacement with basalt

Steel rebar		Basalt rebar	
Ø, mm	meters in 1 ton	Ø, mm	meters in 1 ton
6	4 504	4	43 478
8	2 532	6	16 667
10	1 620	7	
12	1 126	8	9 434
14	826	10	5 882
16	632	12	4 348
18	500	14	

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## Roads and foundations



Warehouse complex,  
Mykolaiv, Ukraine

## Industrial floors



«Nova Poshta» Logistic center,  
Chernihiv

## Underground communications



Radioactive Repository,  
Hungary

## Onshore facilities



Sunshine Skyway Bridge,  
Florida, USA

## Specifications of TECHNOBASALT® REBAR

| comparing to other materials

Characteristic	Unit	Technobasalt® Rebar		Steel rebar	Glass rebar
		Norm	Control method		
Tensile load	MPa	800-1100	GOST 12004	360-420	600-1000
Elastic modulus	GPa	70-75	GOST 12004	190-200	до 50
Density	g/sm <sup>3</sup>	1,9	GOST 15139	7,8	1,9
Ultimate elongation at break	%	1,33-1,86	DSTU ANPB B.V.2.7-312-2016	16	2,2
Thermal conductivity	Vt/(m·°K)	0,36		46	0,35-0,56
Thermal expansion coefficient	-	0,5-0,9·10 <sup>-5</sup>		1,3-1,5·10 <sup>-5</sup>	0,9-1,2·10 <sup>-5</sup>
Corrosion resistance	-	very high		low	high (alkali-resistant only)

## Permits documentation



- TU U V.2.7-25.2-34323267-001: 2009.
- Certificate of conformity UkrSEPRO.
- Radiation certificate.
- Conclusion of the State SES of the Ministry of Health of Ukraine.
- DSTU ANPB B.V.2.7-312-2016 "Basalt rebar".
- DSTU-N B V.2.6-185: 2012 "Guidelines for the design and manufacture of concrete structures with non-metallic composite reinforcement based on basalt and glass roving".
- DSTU B V.2.6-145: 2010 "Protection of concrete and reinforced concrete structures from corrosion".

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