

ARMGLASS+



ЗАВОД КОМПОЗИТНЫХ МАТЕРИАЛОВ

FRP Composite material

ТН ВЭД 3925908009

ТН ВЭД 7019900009



ABOUT COMPANY

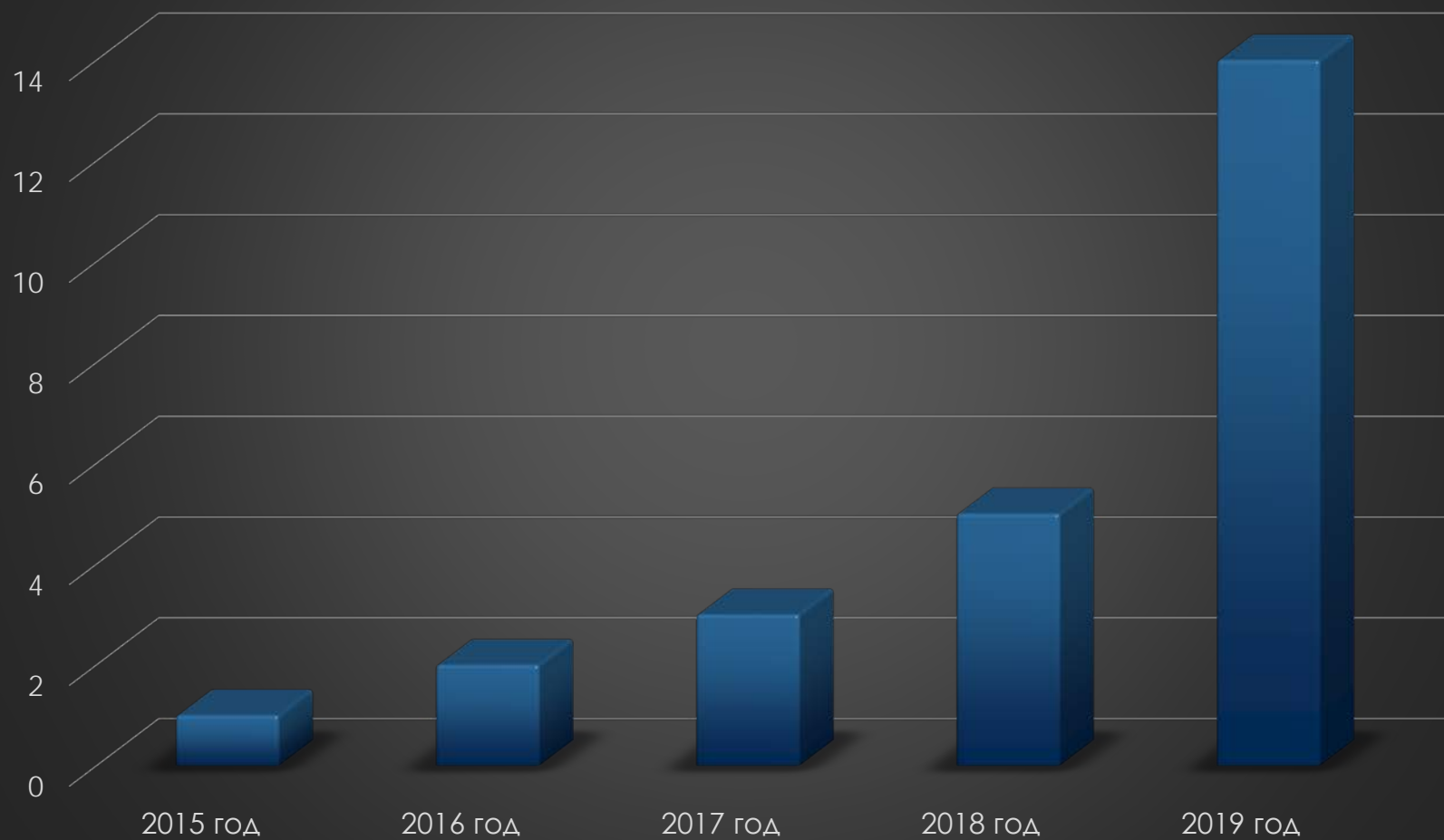
ARMGLASS composite materials plant is a leader in the production of composite rebar and mesh in the Russian Federation. Our company originates from small production in one line since 2010. At the moment, the company has 14 lines and is able to fulfill orders for a large range of composite products based on glass and basalt fibers, such as: composite polymer reinforcement, masonry and reinforcing composite polymer mesh, bent elements of reinforcement, profile products, pipes, lighting supports. Our production is able to produce rebar diameters from 4 to 40 mm. mesh diameter from 2 to 8 mm and cell spacing from 50/50 to 200/200.

These advantages distinguish us from our competitors. Due to the dynamic development of the company, we are interested in new sales markets. We are ready to provide all the accumulated information to promote our products in your region, we are ready to conduct training, with the departure of your employees to our production to get acquainted with the product. The company also has a flexible system of discounts and bonuses for our partners.

ARMGLASS products comply with GOST 31938-2012 of the Russian Federation and ERASMUS, as well as the highest technical requirements in the field of construction. Compliance with GOST requires from the manufacturer, more technological, accurate and modern methods of production and quality control of products.

The company "ARMGLASS" pays special attention to product quality and regularly passes tests, has the appropriate certificates of compliance with GOST 31938-2012, and also has its own laboratory for quality control of our products. The portfolio of companies that have worked with us includes such companies as LUKOIL, Rosneft, TRANS-Neft, Russian Railways, metro construction in Moscow and Saint Petersburg, and other equally important construction projects.

Increase in production capacity (machines, PCs)



DYNAMICALLY DEVELOPING COMPANY

- The company is an exclusive supplier of composite materials for the construction of the Moscow metro (JSC Mosmetrostroy)
- Supplier of products of the Leroy Merlin Vostok Retail chain.
- Leader in wholesale and retail sales of composite materials in the Volga Federal district
- In February 2019, the company moved to the industrial Park "Okapolymer" in Dzerzhinsk, Nizhny Novgorod region, shop 2800m², increased the Park of machine tools by 3 times to 14 units, increased productivity by 5 times. Increasing the number of employees to 104 people.

QUALITY CONTROL OF FINISHED PRODUCTS

PRODUCTION

Input control of materials
The implementation of
Technology
Operations in accordance
with GOST
Monitoring measuring and visual
of the finished product

WAREHOUSE

Warehouse
controlQuantity,
visual quality control

Sales logistics

Visual control during
shipments, working with
customer reviews.

Testing for GOST compliance in our own
laboratory

ALL PRODUCTS ARE CERTIFIED



PARTNERS





FIBER REBAR COMPOSITE GOST

The plant of composite materials "ARMGLASS" produces composite fiberglass and basalt-plastic rebar according to GOST 31938-2012 from 4 mm to 40 mm with step-by-step quality control (compound / fiber/physical and technical characteristics of the finished product).



COMPOSITE MESH

Composite fiberglass and basalt-plastic mesh for reinforcement of masonry and monolithic works. Mesh diameter from 2 to 8 mm, cell from 50x50 to 200x200



BENT ELEMENTS

Bent composite elements for band foundations, Foundation slabs, floor slabs, piles, pillars and other structures that require increased strength, load distribution or reduction of the total weight of the product



COMPOSITE PROFILE MATERIALS

Composite, fiberglass structures are a modern solution at an affordable price. Composite structures can easily replace conventional materials such as steel, aluminum, PVC or wood. Fiberglass is used in construction, agriculture, manufacturing, and road construction. The use of composite allows you to speed up the construction process, often reduce its cost.

ADVANTAGES OF COMPOSITE REINFORCEMENT OVER METALLIC

- Fiberglass and basalt-plastic rebars have a tensile strength more than 2 times higher than that of steel rebars of the a III grade with an equal diameter. Accordingly, it can have a design area half the size of steel.
- The density of composite rebar is 1.9 tn / m³. This means that it is only 1.9 times heavier than water and 5 times lighter than steel. In the same ratio of equal strength, the weight of such fittings is 9 times less than that of steel. This reduces the cost of transport and loading and unloading operations, as well as facilitates the performance of work on the construction site.
- Non-metallic reinforcement increases the service life of structures by 2-3 times compared to steel reinforcement, especially when exposed to aggressive environments. There is no need for expensive repairs. The predicted lifetime is at least 80 years.
- Composite fittings can be used under various temperature conditions (from -70 to +200 degrees Celsius) without changing their technical and operational characteristics.
- Coefficient of thermal expansion as in concrete.
- Non-metallic reinforcement is absolutely not subject to corrosion and does not cause destruction of concrete. In addition, it practically does not change its mechanical properties in an aggressive environment under the influence of acids, alkalis and salts.
- Composite fittings do not conduct electric current and do not accumulate static energy. Permeable to radio waves. It is not possible to change the strength properties of composite reinforcement under the influence of electromagnetic fields.

WHERE TO USE COMPOSITE REBAR

- Sea and port facilities
- Strengthening the coastline
- Reinforcement of concrete tanks and storage facilities of treatment facilities and chemical industries, elements and infrastructure of chemical industries
- Sewerage, land reclamation and water disposal
- Construction of subways and other underground structures of high security.
- Reinforcement of industrial and residential floors, platforms, retaining walls and armatures.
- Foundations are below the ground level of both high-rise and low-rise civil and industrial construction.
- Strengthening the roadbed and building bridges and crossings.
- Repair of reinforced concrete structures.



COMPARATIVE CHARACTERISTICS OF COMPOSITE AND METAL REBAR

specifications	REBAR	
	Steel rebar rolled products of class A400 (a-III)	Fiber Rebar Composite «ARMGLASS»
material	Steel 35ГC, 25ГC2C, 32Г2Pnc	Glass fibers with a diameter of 14 microns bound by a polymer
Standard tensile strength, MPa	390	1200
Modulus of elasticity, MPa	200 000	55 000
Elongation, %	25	2,2
The nature of the behavior under load (the dependence "voltage-deformation»)	A curved line with a yield point under load	Straight line with elastic-linear dependence under load until failure
Thermal conductivity	Heat conducting (46)	not heat-Conducting (0,46)
Coefficient of linear expansion, $\alpha \times 10^{-6}/^{\circ}\text{C}$	13-15	9-12
Density, t / m3	7,0	2,0
Corrosion resistance to aggressive media	Low corrosion, with the release of the rust	High, stainless material of the first group of chemical resistance, including to the alkaline environment of concrete.
Conductivity	Electroconductive	Dielectric

WORKING WITH US YOU GET A RELIABLE AND
VALUABLE PARTNER WITH A GUARANTEE OF
FULFILLMENT OF OBLIGATIONS AND CONSTANT
HIGH QUALITY OF PRODUCTS



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