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### Kozupitsa S.A. Krasnoyarsk region: results and prospects

Minister of construction of the Krasnoyarsk region shares about the prospects of development of the construction complex and urban development in 2019 (p. 10).

### MATERIALS

#### Igoshin E.A. Foreign experience of pricing in design and possibilities of its application in Russia

On the example of Germany the possibility of adaptation to the Russian conditions of foreign experience of pricing and design in construction is considered which at the present stage is a real problem in domestic practice (p. 13).

#### Blusov V.A., Panfilov A.V. Floor coverings in stone houses

Article deals with the issue of reducing the consumption of building materials while maintaining the bearing capacity of structures provides a significant economic effect. In Russia in the practice of design and construction of prefabricated and monolithic buildings the most widespread are wall, frame, frame-wall and frame-barrel structural systems (p. 20).

#### Petrova T.A., Volkov Yu.S. The comedy of errors or Again about GOST R 57345

This article is a kind of response to the critical comments made to the application of the European standard EN 206:2014 Concrete – Specification, performance, production and conformity as GOST R 57345 – Concrete – Technical requirements, performance, production and conformity assessment in the domestic construction industry (p. 25).

### EQUIPMENT

#### Helen Keller. Measuring instruments for testing building materials

The author of the article introduces to the readers some types of products of the company Schleibinger Geräte Teubert u. Greim GmbH, first of all, special equipment used to measure and control the quality of various building materials, for example on the basis of cement or gypsum (p. 28).

#### Medvedev A.N., Morozov E.A., Morozov Eg.A. The use of low-grade wood in construction

This article describes the technology of using a new type of fasteners for connecting untreated logs in construction (p. 32).

#### Bogomolov O.V. How to estimate the energy efficiency of concrete goods production?

Article proposes a method of assessing the efficiency of the heat supply system of the concrete plant, an example of calculating the financial losses of the enterprise from the use of inefficient heat and power technologies, justified the direction of radical improvement of production efficiency. 20 years experience of technical re-equipment of the enterprises of a construction complex convincingly

confirms the criteria and the calculation technique developed by the engineering company InterBlock (p. 34).

## TECHNOLOGIES

*Shilyaev A.I., Belyaev E.V., Kalabekov U.K., Menshikova E.A.* **Diabases of Dagestan are the source of raw materials for basalt fiber production**

This paper is devoted to the characteristics of the geological structure of the Kurdul area of diabase rocks suitable for basalt fiber production. The features of the material composition of rocks are considered. Industrial and technological tests have shown the possibility of using the basic raw materials for the production of staple thin fiber of the VMST brand and super-thin basalt fiber of the BSTV brand (p. 37).

*Al-Shiblavy K.A., Pershin V.F., Yartsev V.P.* **Study of the properties of glass-composite reinforcement and its adhesion to concrete**

The limiting stresses at transverse shear of glass-composite reinforcement are experimentally determined, not only in standard conditions but also during cyclic freezing-thawing and soaking-drying. It is established that as the diameter of the reinforcement is increased, the limiting stresses with transverse shear decrease. The strength of the adhesion of the reinforcement to concrete was determined and it was established that, with an increase in the diameter of the reinforcement from 6 to 12 mm, the ultimate strength of adhesion to concrete decreased by 20,3% (p. 42).

## INFORMATION

*Dvoretzky A.T., Morgunova M.A., Sergeichuk O.V., Spiridonov A.V.* **Methods of fixed shading devices designing**

This paper deals with the mathematical models of the buildings insolation process. They are based on solar geometry described by a daily cone of sunlight without knowledge of which professional and high-quality design of energy-efficient buildings and cities it is impossible. For the formation of stationary sun protection devices in the form of spatial forms it is advisable to use a method based on the use of a daily cone of sunlight which is easily implemented with the help of specialized computer programs (p. 46).

*Gustav Reish.* **How the Germans turned the baptismal font into a bath or The variability of plumbing fashion in Tsarist and Soviet Russia**

The history of the appearance of sanitary products and baths in Russia became the subject of this article (p. 52).

*Popov A.A.* **Russian tile should have modern standards**

This article is about the cooperation of the Association of ceramic materials manufacturers and the Scientific Center of ceramics of VNIISTROM in the revision of all existing standards for ceramic tiles (p. 56).



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