

MATERIALS

Gennady Emelyanov. Apply of steam – proof thermal insulation in construction

Author examines the properties of insulation, pointing out that the application of any insulation in the construction requires calculations in the design to provide the most competent design solutions and the best working conditions of building structures during operation (p. 8).

Alexander Reshetnikov. Poritep leaves competitors behind

Article considers the physical and mechanical properties, as well as the competitive advantages of aerated autoclaved concrete, which are effectively used in low-rise building (p. 11).

Stepanova V.F. Prospects and trends in the further production and application of composite materials and structures in building

Article gives an overview on the prospects for the production and application of composite materials, products and structures for construction, tells about the work of the Association OPPNCA («Non-metallic composite reinforcement») to promote enterprises in the research of composite materials and in developing the technical requirements and certification testing (p. 12).

Treschalin M. Yu., Treschalin Yu.M. Efficiency and prospects of innovative composite materials on the non-woven basis

Authors consider the use of nonwoven materials as the basis allows to implement different approaches to the fabrication of composites, when it is necessary to preserve their abilities in the conditions of dynamic loading, including specific combinations of tensions from mechanical, thermal and shock impact (p. 15).

EQUIPMENT

Electronic circulators for heating systems

The Eltek Electronics company is one of the leading Russian manufacturers of systems of cable heating and thermostats, releasing a wide range of these products. Eltek Electronics is constantly improving and expanding the range, allowing every customer to find the most interesting solutions (p. 19).

Golik V.I., Burdzieva O.G., Kharebov G.Z. The demetalization tailings ore for use in the construction

The radical changes in the economic situation in Europe and the world in connection with the political crisis of the last time impulse the search for autonomous ways of providing construction materials of the required quality. The most acceptable solution of this problem is the use of mining waste production for the preparation of hardened mortars. This is the article is about (p. 20).

TECHNOLOGIES

Korotkov A.V., Kotlarskiy E.V. Emulsifier impact on the dispersion and the viscosity of the bitumen emulsion

In article is told about the properties of bitumen emulsions depending on the dispersion of the bitumen phase and the bitumen droplet sizes can vary because of such factors as the use of technological equipment, the type of emulsifier, schedule preparation, and other factors (p. 24).

Mitrofanov V.P., Pinchuk N.M., Mitrofanov P.B. General theory of reinforced concrete as the base of the calculations in the norms of the future

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