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ТЕХНОЛОГИИ

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Ministry of construction and housing of Russia: first steps and first results

Interview with Mikhail Men, head Ministry of the construction and housing (p. 12).

Strategy of building materials industry and industrial construction development: opinions, discussions, decisions

The report is devoted to the strategy of Russian building complex innovative development, the discussion of which was held in the framework of the business conference in the Saratov city held under the auspices of the Ministry of construction and housing of Russian Federation (p. 16).

Bulatnikovo Residential Complex: Affordable. High-Quality. Efficient

Providing citizens with housing and creating better living environment is a strategic and socially important task of state development, because of the complexity of large cities of Russia are in emergency condition of housing stock depreciation of utilities, load transportation arteries, environmental problems and the list may go on. As the policy of point development in the cities practically failed, it became inevitable search for other ways out of the current situation. About this theme is the talk to Alexander Delis, Chairman of the board of the KVARTSTROY development company, guest of the editorial board (p. 20).

MATERIALS

Innovative sealants for windows and other novelties produced by the «Selena Vostok» company

This article introduces new products of the «Selena Vostok» company – innovative sealants for working in window segment. There is given description of new adhesives properties and their characteristics (p. 24).

«Saint-Gobain» chose the best projects with use of gypsum construction materials

Final of the 9th International competition Saint-Gobain Gypsum Trophy for the best projects with use of gypsum construction materials, known in Russia under the brand GYPROC, hosted in Berlin in June. Its participants include leading construction and contracting organizations. This year in Saint-Gobain Gypsum Trophy for the first time 2 Russian projects participated – winners of the national contest (p. 26)

PORITEP: will withstand any fasteners

This paper considers the results of tests conducted on digging anchors from the wall, built of concrete blocks produced by PORITEP company. It is noted that blocks density D500 and D600 can handle almost any loads occurring in construction – from the console stairs to the suspended facades. Calculated load value for facade and chemical anchors – 30 kg and 200 kg (p. 30).

Andrey Zherebtsov. PENOPLEX® boards effectiveness at warming the first and ground floors

This paper tells about the need to give special durability and reliability of underground constructions of a building, as it has been exposed constantly to adverse environmental factors: pressure from the soil, ground water, frost heave, etc. However, choosing reliable and high-strength materials for foundation of a house, one shouldn't forget about the basement part and the first floors of the building, which also are exposed to extreme loads during all term of operation (p. 32).

Kiselyov I.Ya. **Influence of equilibrium sorption humidity of construction materials on heat transfer resistance of buildings external fencing structures**

The article tells about the relation of sorption humidity and heat conduction of building materials from the temperature in the calculation of processes of heat and mass transfer through external enclosing structures and their present resistance to heat, which increases the accuracy of these calculations (p. 34).

Petr Sagin. **Heat insulation made of foamed polyurethane is it innovative insulation or chemically hazardous material?**

This paper deals with the properties and characteristics of such a thermal insulation material as polyurethane foam (PUR) or PIR foam panels and which is used as the insulation of various enclosing structures or as filler for sandwich-panels (p. 36).

Shirmanov V.V. **Construction of ecologically safe, energy efficient and prefabricated wooden buildings**

Wood is still one of the most important materials in construction, along with the stone, iron and glass. And will remain so, despite the long history of use and various innovations of scientific and technical progress on the development, production and implementation of various structural and heat-insulating materials (p. 38).

EQUIPMENT

WEHRHAHN in the CIS and Baltic States: more than 35 plants in ten years

First plant of the German company Wehrhahn on the post-Soviet space began operating in 2003 in Almaty, Kazakhstan, and in 2004 in the Sverdlovsk region started to work Berezovskiy aerated concrete plant belonged to the «Teplit» company where the first line produced by Wehrhahn was fit in Russia. Nowadays Wehrhahn factories are the undisputed leaders in the market of autoclaved aerated concrete in many countries of the CIS and Baltic States. About the factors providing advantages in the market tells Dr. Klaus Bohnemann, the company's President (p. 41).

Irina Gerasimova. **Made by Hitachi, but with a Russian soul**

This issue is about the opening a new excavator's plant opened by known Japanese company in the Tver region (p. 44).

TECHNOLOGIES

Shembakov V.A. **Poster manufacturing technology of precast-monolithic frame design**

Paper deals with the features, advantages and prospects of the modern poster technologies of manufacture of structures precast-monolithic frame. This technology allows to implement effectively the main tasks of modern construction to build fast, beautiful, safe, and affordable (p. 47).

INFORMATION

Metropolis with underwater skyscrapers

The editorial board of the magazine continues a series of publications about futuristic architectural projects, including the cities of the future. Today – acquaintance with the project of the underwater metropolis (p. 53).



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