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*Копылов И.А.* 18-я Международная выставка Aqua-Therm Moscow 2014: выдвижение новых лидеров индустрии ..... 53

### MATERIALS

*Thomas Slavik.* **ARSENAL ST and FRISOMAT: merger of the leading metal structures manufacturers**

In modern conditions of intensive competition and an increasing number of metal structures small producers strengthening of positions for the ARSENAL ST is strategically important, because this manufacturer came on the market seriously and for a long time, so company products and solutions should be maximum effective for our clients (p. 8).

*Alexey Dudin.* **Universal heater for floor, foundation, walls, roof**

This article considers the scope of polystyrene application as a universal insulation, characteristics which allow its use it in protecting constructions, foundation work, arrangement of roof and so on (p. 10).

*Stepanov A. Yu.* **Composite polymer fittings and buildings' seismic resistance**

Author analyses the issues of composite polymer fittings application in buildings and structures in seismic areas. It's emphasized the need of detailed study of valve type and diameter influence on the joint work with concrete under seismic loads (p. 12).

*Gridchin A.M., Korotaev A.P.* **Asphalt binder on the basis of porous mineral powder**

This paper considers the mineral powder as the most important component of asphalt concrete, largely determines its properties. Turning bitumen from surround state into the film condition powder contributes to the fact that bitumen being in thin layers and small pores enters the area of influence of the surface layer molecule of mineral particle. As a result the properties of bitumen less change under the influence of the temperature and the thermal stability of asphalt binder increases (p. 15).

*Ustianov V.B., Ivashchenko V.V.* **Ceramic macadam for roads, horticulture and sewage treatment**

Authors study possibility and effectiveness of using ceramic macadam and ceramic granules for building roads. The ceramic macadam and ceramic granules can be produced from local clays at basic (typical) brickyards. It's pointed out that the production costs are relatively low (p. 18).

### EQUIPMENT

*Ustinov B.S., Ustinov D.B.* **Traditional native materials of wood products for windows structural system**

This article deals with production process of vegetative filters with the selection of their staff from the green coniferous wood components. Authors note that such filters clean the air in the premises of the accumulation of harmful substances emitted plastic and furniture containing different phenol-formaldehyde glues and provide continuous air exchange in the areas with the normalization of humidity (p. 21).

**Anti-icing systems by Eltek Electronics**

This article deals with the specifications for different heaters produced by the Eltek Electronics company and used to create anti-freeze systems (p. 27).