

**MATERIALS****Flat roof verified and longer: LOGICROOF membrane**

This paper deals with the complex roofing system solutions offered by the TECHNINICOL Corporation and optimized for use in large retail facilities (p. 10).

**Andrey Zherebtsov. Warming of the basement and the first floors with effective thermal insulation PENOPLEX® which is the best choice for the facade system**

This paper gives an analysis of the characteristics and properties of the thermal insulation system PENOPLEX® FASAD PRO, used to insulate the basement and first floors of buildings (p. 13).

**How to calculate the roof itself?**

The construction of a new roof or repair the old one often associated with the need to perform an independent calculation of the roof. This article describes how to calculate the roof of the house, as well as an example of the gable roof calculation is considered (p. 16).

**EQUIPMENT****Redko Yu.B. Measurement of sound-proofing from air and impact noise between floors with one- and two-layer coatings in natural conditions**

Paper presents the results of analysis and systematization of the issues of organizing and conducting measurements of the insulation of air and impact noise with enclosing structures. The requirements of the normative and technical documentation for the measurement procedure and the processing of the results are considered, and also the results of comparative tests of the floor slabs obtained in accordance with the technique in question are given (p. 19).

**TECHNOLOGIES****Alisa Pankratova. The one who lives on the roof**

Author draws the readers' attention to the nuances of the organization of the exploited flat roof (p. 25).

**Yartsev V.P., Struleva I.A. Excessive insulation of buildings and prospects for its practical application in the ecological and economic aspects**

In this article, from the economic point of view, the possibility of practical application of excessive insulation of enclosing structures and its influence on the environment is considered (p. 28).

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*Igor Safronov. Roofing detective: determine the causes of leakage by its «hand writing»*

Author of the article analyzes the causes of the leakage of the roof, describes the characteristic features of this process (p. 30).

*Mauerlat Mansardov. Roof installation draw backs, or How to revive the best traditions of roofing*

The paper deals with the most common mistakes made when installing various types of roofing systems. Among the reasons are given, in particular, design flaws, low production standards, roofers' lack of professionalism (p. 32).

*Ivan Degtyarev. Estimating the cost of a life cycle of combined unexpended roofs*

In the article the technique of the analysis of cost of roofing system taking into account its life cycle (p. 36).

**Optimal protection of firewalls**

This paper deals with technologies and materials used to protect firewalls, it is noted that this is a rather complex task, especially in cases of layered roofs (p. 38).

**INFORMATION**

*Olga Korneeva. Is the load dangerous for the flat roofs?*

This paper is devoted to analysis of the operational capabilities soft flat roofs (p. 40).

*Ekaterina Litvintseva. Redevelopment in Chinese: how MAD Architects will change Milan*

The redevelopment of industrial zones is a relevant topic not only for Russian cities. Experts from the Chinese Bureau MAD Architects tell how to give a second life to the «rusty zone» of Milan (p. 42).

**Will «chameleon» solar panels appear on the roofs of the houses?**

The note informs about the new project of the American start-up Sistine Solar, which created adaptive solar panels, which according to the developers can show an arbitrary image (p. 44).

**South Australian Health and Medical Research Institute (SAHMRI) design from Woods Bagot**

The article is devoted to the features of the architectural design of the Health and Medical Research Institute in Adelaide (Australia) created by bureau Woods Bagot (p. 46).



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