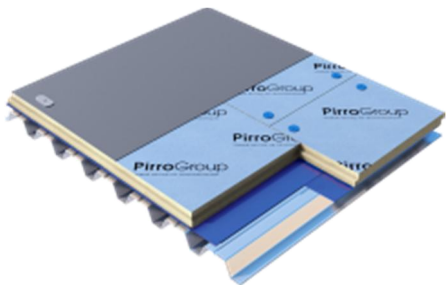


## Technical data sheet №2.01

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### PIR roofing system EXPERT

Roofing system of profiled steel sheet with cladding of polymeric membranes and insulation of polyisocyanurate.



#### Description of the system:

A steel sheet is used as a support base of the systems PIR Roofing Expert, which fits vapor barrier of plastic film or bituminous material. The joints of the vapor barrier materials should be glued. The need for a vapor barrier is defined by the project. As insulation layer PIR Roofing system Expert has insulation boards of rigid foams (PIR), with G1 flammability class of PirroMembrane brand.

Low thermal conductivity of PIR boards PIRRO provides reduction in thickness and a significant reduction of its total weight comparing to conventional heaters. Thus, it reduces the load on the building frame and its cost.

PIR Roofing system Expert provides increased overhaul life of the roof due to the high strength and resistance of PIR-plates to the concentrated load.

Roof covering is made from Plastfoil® polymer membrane (articles FL, F, F Nord) and Extrarroof® (articles F, FT), having G1(G2) flammability class.

System PIR Roofing Expert provides mechanical attachment of insulation and roof membrane to the base, which increases the speed of installation.

#### Field of application:

System PIR Roofing Expert is designed for roofs of industrial and public buildings, warehouses and agricultural buildings. It is used in all climatic zones.

Low flammability group of layers of heat and waterproofing layer of the system provides PIR Roofing Expert class of fire danger R0 (15) in accordance with GOST 30403-96, which allows to make the roof without fire separation zones on any surface without restrictions (more than 10 000 m<sup>2</sup>).

#### Structure of the system:

| № | The layer   | Standard                                 | Units          | Consumption        |
|---|---|--|----------------|--------------------|
| 1 | Vapor barrier film or vapor barrier bituminous material | GOST 30547-97 or manufacturer's standard | M <sup>2</sup> | 1,10               |
|   |   |  | M <sup>2</sup> | 1,15               |
| 2 | Insulation PIR boards PirroMembrane                     | TS 5768-001-09151858-2015                | M <sup>2</sup> | As per calculation |
| 3 | Extensible fastening                                    | Manufacturer's standard                  | pieces         | As per calculation |
| 4 | Polymer membrane PLASTFOIL® or EXTRAROOOF®              | Manufacturer's standard                  | M <sup>2</sup> | 1,15               |

#### Works:

According to the "Technological card for roofing with PIR Roofing system expert", album of technical solutions «Flat roof with insulation of the panels PIRRO® of polyisocyanurate (PIR) with soft linings production company PirroGroup (Russia) with the use polymeric membranes» and guidance for using the polymer membrane PLASTFOIL.