

# DECLARATION OF PERFORMANCE

Nro. 140-FF-2014-11-03

1. **Unique identification code of the product-type:** Polyisocyanurate board (PIR) FF-PIR xxx ALK.
2. **Allowing identification of the construction product:** FF-PIR ALK
3. **Intended uses of the construction product:** Products are used as thermal insulation. Product applications are specified in the web site [www.finnfoam.fi](http://www.finnfoam.fi) .

4. **Name, registered trade name and contact address of the manufacturer:**

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Satamakatu 5  
24100 Salo, Finland  
Tel. +358 2 777 300  
Fax: +358 2 777 3020  
Email: [finnfoam@finnfoam.fi](mailto:finnfoam@finnfoam.fi)

6. **System of attestation of conformity :** AVCP 3

7. **Declaration of performance concerning a construction product covered by a harmonized standard:**

VTT Expert Services (NB. 0809) and Institute of thermal insulation of Vilnius Gediminas Technical University (NB. 1688) performed initial type testing under system 3 and issued test/calculation reports.

The logo consists of the letters 'FF' in a bold, italicized yellow font with a grey outline, followed by a hyphen and the letters 'PIR' in a bold, green font with a grey outline.

9. Declared performance:

| ESSENTIAL CHARACTERISTICS                                 | PERFORMANCE                                   |   | HARMONISED TECHNICAL SPECIFICATION |
|---|---|---|------------------------------------|
| Reaction to fire  | Euroclass                                     | E                                       | EN 13165:2012                      |
| Water permeability  | Long term water absorption by total immersion | WL(T)2                                  |                                    |
|   | Flatness after one-sided wetting              | FW2                                     |                                    |
| Release of dangerous substances to the indoor environment | Release of dangerous substances               | No harmonised test method available     |                                    |
| Acoustic absorption index                                 | Sound absorption                              | NPD                                     |                                    |
| Direct airborne sound insulation index                    | Sound absorption                              | NPD                                     |                                    |
| Continuous Glowing combustion                             | Continuous Glowing combustion                 | No harmonised test method available     |                                    |
| Thermal resistance  | Thermal conductivity                          | 0,023                                   |                                    |
|   | Thickness tolerance                           | T2                                      |                                    |
|   | Thickness (mm)                                | Thermal resistance (m <sup>2</sup> K/W) |                                    |
|   | 30  | 1,30                                    |                                    |
|   | 40  | 1,75                                    |                                    |
|   | 50  | 2,15                                    |                                    |
|   | 70  | 3,05                                    |                                    |
|   | 80  | 3,50                                    |                                    |
|   | 90  | 3,90                                    |                                    |
|   | 100   | 4,35                                    |                                    |
|   | 120   | 5,20                                    |                                    |
|   | 130   | 5,65                                    |                                    |
|   | 150   | 6,50                                    |                                    |
| 160   | 6,95  |   |                                    |
| 200   | 8,70  |   |                                    |
| 240   | 10,45   |   |                                    |
| Water vapour permeability                                 | Water vapour transmission                     | NPD                                     |                                    |
| Compressive strength                                      | Compressive strength                          | CS(10/Y)100                             |                                    |

**FF-PIR**

|  |  |  |  |
|--|--|--|--|
| Tensile/flexural strength  | Tensile strength perpendicular to faces  | NPD  |  |
| Durability of reaction to fire against heat, weathering, ageing/degradation  | Durability of reaction to fire of the product as placed on the market against ageing/degradation | No change in Reaction to fire properties for rigid polyurethane foam products. |  |
| Durability of thermal resistance against heat, weathering, ageing/degradatio | Dimensional stability under specified temperature and humidity conditions                        | DS(70,90)4   |  |
|  |  | DS(-20,-)2   |  |
|  | Deformation under specified compressive load and temperature conditions                          | NPD  |  |
|  |  | NPD  |  |
| Durability of compressive strength against ageing/ degradation               | Compressive creep  | NPD  |  |

**Safety data sheet: [www.finnfoam.fi/kayttoturvallisuustiedote](http://www.finnfoam.fi/kayttoturvallisuustiedote)**

Signed for and on behalf of the manufacturer by:

Henri Nieminen, CEO

Salo 3.11.2014



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(signature)

**FF-PIR**