



## DECLARATION OF PERFORMANCE

Nro. 200-FF-2020-03-03

1. **Unique identification code of the product-type:** Polyisocyanurate board (PIR) FF-PIR xxx FRK / FRL / FRI
2. **Allowing identification of the construction product:** See product label.
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:**

Finnfoam Oy (0689386-6)  
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 1 for reaction to fire and AVCP 3 for other characteristics.

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 and VTT Expert Services (NB.0809) made Initial inspection of factory and of FPC by system 1 and draw up a certificate of conformity nro.0809 -CPR - 1185.

**8. Declared performance:**

| ESSENTIAL CHARACTERISTICS                                 | PERFORMANCE                                   |   | HARMONISED TECHNICAL SPECIFICATION |
|---|---|---|------------------------------------|
| Reaction to fire  | Euroclass                                     | B-s1, d0 (black side of board)<br>NPD (light side of the board) | EN 13165:2012 +<br>A2:2016         |
|   | Foam fireclass<br>VTT-C-11858-16              | D-s2,d0   |                                    |
| Water permeability  | Long term water absorption by total immersion | NPD   |                                    |
|   | Flatness after one-sided wetting              | NPD   |                                    |
| 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 $\lambda_D$              | < 80 mm: 0,027<br>80 – 119 mm: 0,026<br>$\geq$ 120 mm: 0,025    |                                    |
|   | Thickness tolerance                           | T2  |                                    |
|   | Thickness (mm)                                | Thermal resistance (m <sup>2</sup> K/W)                         |                                    |
|   | 60  | 2,20  |                                    |
|   | 70  | 2,60  |                                    |
|   | 100   | 3,85  |                                    |
|   | 110   | 4,25  |                                    |
|   | 120   | 4,80  |                                    |
|   | 130   | 5,20  |                                    |
|   | 140   | 5,60  |                                    |
|   | 150   | 6,00  |                                    |
|   | 160   | 6,40  |                                    |
|   | 180   | 7,20  |                                    |
| 200   | 8,00  |   |                                    |

|   |  |  |
|---|--|--|
| Water vapour permeability   | Water vapour transmission  | NPD  |
| Compressive strength  | Compressive strength   | CS(10/Y)100  |
| 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/degradation | 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  |

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.  
This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

**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 3.3.2020



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(Signature)