



## DECLARATION OF PERFORMANCE

Nro. 112-FF-2018-01-30

1. **Unique identification code of the product-type:** Expanded polystyrene (EPS) FF-EPS 100S, FF-EPS M 100S, FF-EPS X 100S.
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:**

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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.



**8. Declared performance:**

| Essential characteristics                                   | Performance   |                      | Harmonised technical specification |
|---|---|----------------------|------------------------------------|
| Reaction to fire  | Euroclass   | E                    | EN 13163:2013 +<br>A2:2016         |
| Water permeability  | Water absorption  | WL(T)3               |                                    |
| Release of dangerous substances to the indoor environment * | Release of dangerous substances   |                      |                                    |
| Thermal resistance  | Thermal conductivity  | $\lambda_D=0,031$    |                                    |
|   | Thickness tolerance   | T(2)                 |                                    |
|   | Thickness (mm)  | Thermal resistance R |                                    |
|   | 85  | 2,75                 |                                    |
|   | 100   | 3,20                 |                                    |
|   | 120   | 3,85                 |                                    |
|   | 130   | 4,20                 |                                    |
|   | 140   | 4,50                 |                                    |
|   | 150   | 4,85                 |                                    |
|   | 170   | 5,50                 |                                    |
|   | 180   | 5,80                 |                                    |
|   | 200   | 6,45                 |                                    |
|   | 210   | 6,75                 |                                    |
|   | 220   | 7,10                 |                                    |
|   | 250   | 8,05                 |                                    |
|   | 260   | 8,40                 |                                    |
| 270   | 8,70  |                      |                                    |
| 300   | 9,70  |                      |                                    |
| 320   | 10,30   |                      |                                    |
| 370   | 11,95   |                      |                                    |
| 400   | 12,90   |                      |                                    |
| Water vapour permeability                                   | Water vapour transmission $\mu$   | 30 – 70              |                                    |
| Compressive strength  | Compressive stress at 10% deformation                                   | 100 kPa              |                                    |
|   | Deformation under specified compressive load and temperature conditions | NPD                  |                                    |
|   | Bending strength  | 150 kPa              |                                    |

|   |   |                  |
|---|---|------------------|
| <b>Tensile/Flexural/Shear strength</b>  | Tensile strength perpendicular to faces | NPD              |
|   | Shear strength                          | NPD              |
| <b>Dimensional stability under specified temperature and humidity conditions</b>      | 48 h, 70°C,90% R.H                      | DS(70,90)1       |
| <b>Durability of reaction to fire against heat, weathering, ageing/degradation</b>    | Durability characteristics              | No change        |
| <b>Durability of thermal resistance against heat, weathering, ageing/ degradation</b> | Durability characteristic               | No change        |
| <b>Durability of compressive strength against ageing and degradation</b>              | Compressive creep                       | CC(3,0/2,0/10)40 |
|   | Freeze-thaw resistance                  | NPD              |

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

\*Test method is not yet available

NPD = No performance determined

**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 30.1.2018



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(Signature)