

## DECLARATION OF PERFORMANCE

Nro. 004-FF-2016-01-04

1. **Unique identification code of the product-type:** Extruded polystyrene (XPS) Finnfoam FI500, FL500.
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:** System 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.

**FINNFOAM**<sup>®</sup>  
MAAN PARAS ERISTE

8. Declared performance:

| Essential characteristics   | Performance   |                                  | Harmonised technical specification |
|---|---|----------------------------------|------------------------------------|
| Thermal resistance  | Thickness tolerance   | T1                               |                                    |
|   | Thickness (mm)  | Thermal conductivity $\lambda_D$ | Thermal resistance $R_D$           |
|   | 50  | 0,037                            | 1,35                               |
|   | 60  | 0,035                            | 1,70                               |
|   | 70  | 0,035                            | 2,00                               |
|   | 80  | 0,037                            | 2,15                               |
| 100   | 0,037   | 2,70                             |                                    |
| Reaction to fire  | Reaction to fire  | E                                |                                    |
| Durability of reaction to fire against heat, weathering, ageing/degradation   | Durability characteristics  | NPD                              |                                    |
| Durability of thermal resistance against heat, weathering, ageing/degradation | Thermal resistance $R_D$ and thermal conductivity $\lambda_D$           | No change                        |                                    |
|   | Durability characteristics  | DS(70,90)                        |                                    |
| Compressive strength  | Compressive stress or compressive strength                              | CS(10\Y)400                      |                                    |
|   | Deformation under specified compressive load and temperature conditions | NPD                              |                                    |
| Tensile/ Flexural/ Shear strength   | Bending strength  | NPD                              |                                    |
|   | Tensile strength perpendicular to faces                                 | NPD                              |                                    |
|   | Shear strength  | NPD                              |                                    |
| Durability of compressive strength against ageing and degradation             | Compressive creep   | CC(2/1,5/50)225                  |                                    |
|   | Cyclic loading  | NPD                              |                                    |
|   | Freeze-thaw resistance  | FTCD1                            |                                    |

EN  
13164:2012  
+ A1:2015

|  |  |             |  |
|--|--|-------------|--|
| <b>Water permeability</b>  | Long term water absorption after total immersion | WL(T)0,7    |  |
|  | Long term water absorption after diffusion       | WD(V)1      |  |
| <b>Water vapour permeability</b>                                 | Water vapour transmission                        | NPD         |  |
| <b>Release of dangerous substances to the indoor environment</b> | Release of dangerous substances                  | No releases |  |
| <b>Continuous glowing combustion</b>                             | Continuous glowing combustion                    | 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 4.1.2016




---

(signature)