



Product Guideline No.8

Factory-made expanded perlite products

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1 Purpose

This Product Guideline supplements the measures in the General Guidelines.

This Product Guideline concerns panels of expanded perlite, in accordance with harmonised European standard NF EN 13169.

2 Additional elements of the certificate application technical file

The technical file defined in paragraph 2.2 of the General Guidelines does not require any additional elements.

3 Characteristics which can be certified

The characteristics which can be certified are the characteristics listed in paragraph 4 of standard NF EN 13169, supplemented by the following characteristics:

- Service compression strength, normal service deformation
- Class of insulating underlayers beneath screed or floating slab and under tiles
- Emissivity
- Specific heat capacity

4 Methods of determination of the certified characteristics by the pilot laboratories

The test methods applied by the pilot laboratory for each of the characteristics are defined in paragraph 5 of standard NF EN 13169, supplemented by the following measures.

4.1 Thermal conductivity

The measures of paragraph 1.1 of Technical Specification No.1 apply.

4.2 Thermal resistance

Certified thermal resistance is defined according to the procedures in Technical Specification No.2.

4.3 Reaction to fire

The measures in Technical Specification No.3 apply.



4.4 Service compression strength, normal service deformation

The measures in Technical Specification No.5 apply.

4.5 Class of insulating underlayers beneath screed or floating slab and under tiles

If the class of insulating underlayers beneath screed or floating slab and under tiles defined in the DTU guidelines 26.2/52.1 is certified, the procedures in Technical Specification No.6 apply.

4.6 Emissivity

If the product has a surface coating for which the emissivity is certified, the procedures in Technical Specification No.7 apply.

4.7 Specific heat capacity

The measures in Technical Specification No.10 apply.

5 Factory production control

Production control in the production unit satisfies the requirements of appendix B of European standard NF EN 13169.

In addition to these measures, for the following certified characteristics for the purposes of these regulations and described in detail in the various Technical Specifications, the procedures (methods and minimum test frequencies) provided for in this Technical Specification apply:

- Reaction to fire
- Service compression strength and normal service deformation
- Class of insulating underlayers beneath screed or floating slab and under tiles
- Emissivity
- Specific heat capacity



6 Tests performed during follow-up

For characteristics requiring monitoring, random tests are conducted at least once a year according to the table below when relevant to the product in question.

The tests are conducted in accordance with the measures in European standard NF EN 13169, supplemented if applicable by the procedures described in the Technical Specifications corresponding to the characteristics tested.

| Characteristics (NF EN 13169) | Test methods | Place of performance of the tests |
|---|--------------------------------|--|
| Thermal resistance – Thermal conductivity | NF EN 12667 NF EN 12939 | Pilot laboratory |
| Length and width | NF EN 822 | Production unit and pilot laboratory |
| Thickness | NF EN 823 or NF EN 12431 | Production unit and pilot laboratory |
| Squaring | NF EN 824 | Production unit |
| Flatness | NF EN 825 | Production unit |
| Reaction to fire ¹ | NF EN 13501-1 | Pilot laboratory |
| Other characteristics or criteria | Test methods | Place of performance of the tests |
| Emissivity | Technical Specification No.7 | Pilot laboratory |
| Density | NF EN 1602 | Pilot laboratory |
| Service resistance (R_{CS}) | Technical Specification No.5 | Production unit and pilot laboratory |

The certifying body may also perform tests to verify other characteristics not listed in the table below, in particular if there is any doubt as to the compliance of the certified values.

¹ The reaction to fire classification is monitored by conducting random tests once every two years.



Random testing is performed for reaction to fire in the case of products coming under conformity certificate system 1 for CE marking, in the case of the Keymark or at the manufacturer's request. The following measures also apply for follow-up tests:

- For products classed A2: 1 non-combustibility test in oven and one SBI test;
- Products classed B or C: one SBI test.

7 Certificate maintenance rules

The certificate maintenance rules are defined in paragraph 4 of the General Guidelines.

Based on the results of the tests performed by the pilot body, product compliance is verified:

- For the dimensional characteristics according to the requirements of paragraph 4 of European standard NF EN 13169;
- For the thermal performance according to paragraphs 2.1 or 2.2 of Technical Specification E;
- For the following characteristics certified under these regulations and described in detail in the various Technical Specifications, according to the conditions stipulated in these Technical Specifications:
 - Reaction to fire
 - Service compression strength and normal service deformation
 - Emissivity

8 Marking Rules

The marking rules laid out in Technical Specification D apply.

In particular, the information label complies with the measures in paragraph 3.1.1 of this Technical Specification.