

**VILNIUS GEDIMINAS TECHNICAL UNIVERSITY**  
**FACULTY OF CIVIL ENGINEERING**  
**INSTITUTE OF BUILDING MATERIALS**  
**LABORATORY OF THERMAL INSULATING MATERIALS AND ACOUSTICS**  
**PREFERRED SCOPE OF ACCREDITATION**  
**(flexible)**

| <b>Materials or products tested</b>                                   | <b>Component, parameter or characteristic to be tested</b>                | <b>Reference number of the document specifying test methods, clause (if relevant)</b> | <b>Techniques, methods and/or equipment used (where appropriate)</b>             |
|-----------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| 1. Thermal insulation products for buildings and industrial equipment | Apparent density                                                          | LST EN ISO 29470                                                                      | Mass to volume ratio method                                                      |
|                                                                       | Thermal conductivity at mean temperature of (-15...+70)°C                 | LST EN 12667                                                                          | Heat flow and guarded hot plate methods                                          |
|                                                                       |                                                                           | LST EN 12939                                                                          |                                                                                  |
|                                                                       |                                                                           | ISO 8301                                                                              |                                                                                  |
|                                                                       |                                                                           | ISO 8302                                                                              |                                                                                  |
|                                                                       |                                                                           | LST EN 15101-1:2013 5.3.2 sec., Annexes A1, A3, H                                     |                                                                                  |
|                                                                       | Organic content                                                           | LST EN 13820                                                                          | Determination of mass loss under heating at high temperature                     |
|                                                                       | Length and width                                                          | LST EN ISO 29465<br>LST EN ISO 29768                                                  | Determination of linear dimensions on a flat surface                             |
|                                                                       | Thickness                                                                 | LST EN ISO 29466<br>LST EN ISO 29768                                                  | Determination of linear dimensions                                               |
|                                                                       | Squareness                                                                | LST EN 824                                                                            | Determination of deviation from squareness                                       |
|                                                                       | Flatness                                                                  | LST EN ISO 29468                                                                      | Determination of deviation from flatness                                         |
|                                                                       | Dimensional stability under constant normal laboratory conditions         | LST EN 1603                                                                           | Determination of dimensional deviation under temperature and humidity conditions |
|                                                                       | Dimensional stability under specified temperature and humidity conditions | LST EN 1604                                                                           | Determination of dimensional deviation under temperature and humidity conditions |
|                                                                       | Deformation under specified compressive load and temperature conditions   | LST EN 1605                                                                           | Determination of dimensional deviation under temperature and loading conditions  |

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|---------------------------------------------------------------------------------------|------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| continuation<br>1. Thermal insulation products for buildings and industrial equipment | Moisture content                                           | LST EN ISO 12570                                                                      | Change in mass per unit mass or volume after drying at elevated temperature              |
|                                                                                       | Short-term water absorption by partial immersion           | LST EN ISO 29767<br>LST EN 15101-1, Annex D                                           | Determination of the change in mass by partial immersion and free-flow of water          |
|                                                                                       | Water vapour transmission                                  | LST EN 12086                                                                          | Determination of change in mass with a change in temperature and relative humidity       |
|                                                                                       | Long-term water absorption by diffusion                    | LST EN ISO 16536                                                                      | Determination of the change in mass with respect to water vapor pressure and temperature |
|                                                                                       | Long-term water absorption by immersion                    | LST EN ISO 16535                                                                      | Determination of the change in mass by partial or full immersion                         |
|                                                                                       | Compressive creep                                          | LST EN ISO 16534                                                                      | Determination of the change in thickness under long-term compressive load                |
|                                                                                       | Tensile strength perpendicular to faces                    | LST EN 1607                                                                           | Tensile principle                                                                        |
|                                                                                       | Tensile strength parallel to faces                         | LST EN ISO 29766                                                                      | Tensile principle                                                                        |
|                                                                                       | Compressive stress/strength                                | LST EN ISO 29469                                                                      | Compression principle                                                                    |
|                                                                                       | Bending strength                                           | LST EN 12089                                                                          | Bending principle                                                                        |
|                                                                                       | Shear strength                                             | LST EN 12090                                                                          | Shear principle                                                                          |
|                                                                                       | Behaviour under point load                                 | LST EN 12430                                                                          | Point load principle                                                                     |
|                                                                                       | Thickness of floating floor insulation layer               | LST EN ISO 29770                                                                      | Determination of thickness under different compressive loads                             |
|                                                                                       | Settlement of loose fill cellulose under cyclic humidity   | LST EN 15101-1, Annex B1                                                              | Determination of height change after cyclic humidity                                     |
|                                                                                       | Settlement of loose fill cellulose under vibration         | LST EN 15101-1, Annex B2                                                              | Determination of height change after vibration                                           |

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| continuation<br>1. Thermal insulation products for buildings and industrial equipment                                                                                                                      | Settlement of loose fill cellulose under impact excitation            | LST EN 15101-1, Annex B3                                                       | Determination of height change after vibration and increased temperature and humidity                      |
|                                                                                                                                                                                                            | Freeze-thaw resistance                                                | LST EN ISO 16546                                                               | Determination of the change in water absorption and compressive strength after freezing and thawing cycles |
| 2. Masonry products made of lightweight aggregates concrete, porous concrete, clay, calcium silicate, calcium hydrosilicate and others dry and moist masonry products of medium and low thermal resistance | Dry density of masonry units                                          | LST EN 772-13, sec. 7.2.2.                                                     | Mass to volume ratio method                                                                                |
|                                                                                                                                                                                                            | Dimensions of masonry units                                           | LST EN 772-16                                                                  | Determination of linear dimensions                                                                         |
|                                                                                                                                                                                                            | Calculation of thermal resistance and equivalent thermal conductivity | LST EN 1745, sections 4.2 , 4.3, 5.2, and 6; Annex E                           | Calculation methods                                                                                        |
|                                                                                                                                                                                                            | Calculation of thermal resistance and equivalent thermal conductivity | LST EN ISO 6946                                                                | Calculation methods                                                                                        |
|                                                                                                                                                                                                            | Thermal conductivity at mean temperature of (-15...+70)°C             | LST EN 12664                                                                   | Heat flow and guarded hot plate methods                                                                    |

There is determined and applied first case of flexibility for all scope of accreditation:  
Application of the up-dated versions of normative documents defining the test methods or identical documents superseding them.

Updated by:

quality manager Jurga Šeputytė-Jucikė

23<sup>rd</sup> of May, 2025