

ACCREDITATION CERTIFICATE

No. LA.01.031

Lithuanian National Accreditation Bureau hereby certifies that

complies with requirements of

**Building physics laboratory of
Institute of architecture and construction of
Kaunas university of technology**

LST EN ISO/IEC 17025:2018

legal entity: Kaunas university of technology
legal entity code: 111950581

and is accredited to perform:

Testing of physical properties of thermal insulation materials and products, doors and windows; building acoustic, air permeability and termovision testing; testing of paints, varnishes, primers, sealants and adhesives, roof and floor coverings and products, mortars, impact attenuating surfaces (Table 1 of the scope of accreditation)

assessment and verification of constancy of performance of thermal insulation materials and products, windows and doors according to requirements of Regulation (EU) No. 305/2011 of the European Parliament and of the Council (Table 2 of the scope of accreditation)

The scope of accreditation below is an integral part of this certificate. Locations of the conformity assessment body are specified in the scope of accreditation

Initial accreditation date: **2000-04-10**

Certificate issued / valid since: **2023-12-07**

Version of: **2023-12-07**

Expiry date: **2025-03-11**

Director



DÁLIA BALEŽENTĚ

The certificate may be changed, its validity suspended or withdrawn by the decision of the National Accreditation Bureau. Information on the actual data of accreditation certificates may be verified at nab.lrv.lt



Building physics laboratory of Institute of architecture and construction of Kaunas university of technology, accredited in accordance with **LST EN ISO/IEC 17025:2018**

Location of the conformity assessment body

Tunelio str. 60, 44405 Kaunas

Table 1

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
1. Thermal insulating products for building applications	Steady-state thermal transmission properties	LST EN ISO 8990	Hot box method
	Thermal conductivity	LST EN 12667	Heat flow method
	Thermal resistance	LST EN 12939 LST EN 12664	
	Thermal resistance (reflective insulation products)	LST EN ISO 22097 LST EN 16863	Hot box method
	Thermal resistance and thermal transmittance	LST EN ISO 6946	Calculation method (simplified)
	Length and width	LST EN ISO 29465 LST EN ISO 29768	Determination of linear dimensions on a flat surface
	Thickness	LST EN ISO 29466 LST EN ISO 29768	Determination of linear dimensions on a flat surface
	Squareness	LST EN 824	Determination of deviation from rectangle
	Apparent density	LST EN ISO 29470	Calculation of mass to volume ratio
	Long term water absorption by immersion	LST EN ISO 16535	Determination of mass change by partial or total immersion
	Short term water absorption by partial immersion	LST EN ISO 29767, except B method	Determination of mass change by partial immersion and free draining
	Organic content (mineral wool only)	LST EN 13820	Determination of mass loss at high temperature
	Tensile strength parallel to faces	LST EN ISO 29766	Stretching method
	Tensile strength perpendicular to faces	LST EN 1607	Stretching method
Compressive strength	LST EN ISO 29469 except A method	Compression method	

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
	Bending strength	LST EN 12089	Bending method
	Airflow resistance	LST EN ISO 9053-1	Heat flow method
2. Windows	Mechanical strength: resistance to vertical load, resistance to static rotation, operating forces	LST EN 14608 LST EN 14609 LST EN 12046-1 LST EN 13115	Static load method
	Load-bearing capacity of safety devices: resistance to static rotation	LST EN 14609 LST EN 14351-1, clause 4.8	Static load method
	Resistance to repeated opening and closing	LST EN 1191 (only in according with Annex A Turn-only windows) LST EN 12400 LST EN 12046-1 LST EN 13115	Calculation of opening - closing, cycles. Determination of linear dimensions.
3. Doors	Mechanical strength: resistance to vertical load, resistance to static rotation, resistance to soft and hard body impact, resistance to hard body impact, operating forces	LST EN 947 LST EN 948 LST EN 949 LST EN 950 LST EN 1192 LST EN 12046-2 LST EN 12217	Static and dynamic loading method
	Load-bearing capacity of safety devices: resistance to static rotation	LST EN 948 LST EN 14351-1 clause 4.8	Static load method
	Resistance to repeated opening and closing	LST EN 1191 (only in accordance with Annex H for swing doors) LST EN 12400 LST EN 12046-2 LST EN 12217	Calculation of opening - closing, cycles. Determination of linear dimensions.
4. Windows and Doors	Thermal transmittance	LST EN ISO 12567-1 LST EN ISO 8990	Hot box method
	Thermal transmittance	LST EN ISO 10077-1 LST EN ISO 10077-2, except clause 6.4.2	Calculation method (except the radiosity method)
	Burglar resistance	LST EN 1627 clause 3.3 LST EN 1628 LST EN 1629 LST EN 1630	Static and dynamic load methods, Manual hacking
	Air permeability	LST EN 1026 LST EN 12207	Differential pressure method
	Water tightness	LST EN 1027 LST EN 12208	Differential pressure method
	Resistance to wind load	LST EN 12211 LST EN 12210	Differential pressure method
	Acoustic performance	LST EN ISO 10140-1 LST EN ISO 10140-2 LST EN ISO 10140-4 LST EN ISO 10140-5 LST EN ISO 717-1	Sound pressure level method

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used	
5. Buildings and parts	The difference in sound levels Normalized sound level difference Standardized difference in sound levels Apparent sound reduction coefficient	LST EN ISO 16283-1 LST EN ISO 717-1	Sound pressure level measurements	
	Impact sound pressure level Normalized impact sound pressure level Standardized impact sound pressure level	LST EN ISO 16283-2 LST EN ISO 717-2	Sound pressure level measurements	
	Airborne sound insulation of facade and facade elements	LST EN ISO 16283-3 LST EN ISO 717-1	Sound pressure level measurements	
	Duration of reverberation in normal rooms	LST EN ISO 3382-2, except clauses 5.3; 6.2; 6.3; 6.4	Noise reduction curve method	
	Thermal irregularities (thermography)	LST EN 13187	Infrared method	
	Air permeability of buildings	LST EN ISO 9972	Fan pressurization method	
	Air permeability of buildings	LST EN 12114	Fan pressurization method	
	Tabular design values and declared and design thermal values	LST EN ISO 10456	Calculation method	
	6. Paints, varnishes, primers			
	6.1 Paints, varnishes and primers	Non-volatile-matter content	LST EN ISO 3251	Gravimetric method
Drying time		LST EN ISO 9117-3	Surface-drying test using ballotini	
Loss in film thickness		LST EN ISO 11998 LST EN 13300	Wet-scrub resistance Classification	
Hiding power		LST EN ISO 6504-3, method A LST EN 13300	Spectrometric method Classification	
Resistance to liquids		LST ISO 2812-1 method A LST EN ISO 2812-2	Immersion in liquids other than water Water immersion method	
The effect of heat		LST EN ISO 3248	Visual method	
Adhesion		LST EN ISO 2409	Cross-cut test	
Film thickness		LST EN ISO 2808 methods 4A ir 7B.2 LST EN ISO 2178	By difference in thickness Magnetic-induction principle	
Evaluation of degradation of coatings		LST EN ISO 4628-1	Visual method	
Degree of blistering		LST EN ISO 4628-2	Visual method	
Degree of rusting		LST EN ISO 4628-3	Visual method	
Degree of cracking		LST EN ISO 4628-4	Visual method	
Degree of flaking		LST EN ISO 4628-5	Visual method	
Degree of chalking		LST EN ISO 4628-6, except 5.2	Adhesive tape method	

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
	Degree of chalking	LST EN ISO 4628-7	Velvet method
	Adhesion	LST EN ISO 4624	Pull-off test method
	Density	LST EN ISO 2811-1, except 6.b	Pycnometer method
6.2 Polymer concrete floor composites	Non-volatile-matter content	LST EN ISO 3251	Gravimetric method
	Resistance to abrasion	LST EN ISO 7784-2	Method with abrasive rubber wheels and rotating test specimen
	Resistance to liquids	LST EN ISO 2812-1 method A LST EN ISO 2812-2	Immersion in liquids other than water Water immersion method
7. Sealants and adhesives			
7.1 Sealing mastic	Non-volatile-matter content	LST EN ISO 3251	Gravimetric method
	Drying time	LST EN ISO 9117-3	Surface-drying test using ballotini
7.2 Polymer dispersions, adhesives	Non-volatile-matter content	LST EN ISO 3251 LST EN 827	Gravimetric method
8. Roof sheets and products			
8.1 Bitumen sheets	Tensile force	LST EN 12311-1	Tensile test
	Elongation	LST EN 12311-1	Tensile test
	Resistance to tearing	LST EN 12310-1	Nail shank
8.2 Metal corrugated and flat sheets, metal tiles	Film thickness	LST EN ISO 2808 methods 4 A ir 7B.2 LST EN 13523-1	By difference in thickness Magnetic-induction principle
	Mass of coating	LST EN ISO 1460	Gravimetric method
	Adhesion	LST EN ISO 2409	Cross-cut test
	The effect of heat	LST EN ISO 3248	Visual method
	Hardness	LST EN 13523-4	Pencil hardness
	Corrosion tests	LST EN ISO 9227, except 5.2.3, 5.2.4	Salt spray
	Evaluation of degradation of coatings General introduction and designation system	LST EN ISO 4628-1	Visual method
	Degree of blistering	LST EN ISO 4628-2	Visual method
	Degree of rusting	LST EN ISO 4628-3	Visual method
	Degree of cracking	LST EN ISO 4628-4	Visual method
	Degree of flaking	LST EN ISO 4628-5	Visual method
	Degree of chalking	LST EN ISO 4628-6, except 5.2	Adhesive tape method
	Degree of chalking	LST EN ISO 4628-7	Velvet method

Materials or products tested	Component, parameter or characteristic to be tested	Reference number of the document specifying test methods, clause	Techniques, methods and/or equipment used
8.3 Flexible sheets for waterproofing	Maximum tensile strength	LST EN 12311-2	Tensile test
	Elongation	LST EN 12311-2	Tensile test
	Resistance to tearing	LST EN 12310-2	Tensile test
	Thickness and mass per unit area	LST EN 1849-2	Determination of linear dimensions on a flat surface gravimetric method
9. Parquet, parquet boards, floor boards	Moisture content	LST EN 13183-1	Gravimetric method
10. Construction mortars	Tensile bond strength	LST EN 1542	Pull-off test method
11. Impact attenuating surface	Critical fall height	LST EN 1177	Drop test method

* One degree of flexibility is established and applied for the 1st table of scope of accreditation: application of the updated documents of test methods already covered by accreditation or superseding them

Actual accreditation scope is published on the website at <https://asi.ktu.edu>

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Table 2

Decision	Product family, product /Intended use	AVCP system**	Technical specification
Regulation (EU) No 305/2011 Construction products			
European Commission Decision No 99/93/EC	Doors and windows	System 3	EN 14351-1:2006+A2:2016
European Commission Decision No 99/91/EC	Thermal insulation products for buildings	System 3	EN 13162:2012+A1:2015 EN 13163:2012+A1:2015 EN 13164:2012+A1:2015 EN 13165:2012+A2:2016 EN 13166:2012+A2:2016 EN 13167:2012+A1:2015

** System for evaluating and checking the constancy of operational properties

Note. In case of any discrepancies, ambiguities or disputes regarding the subject matter content between the English and Lithuanian versions of the document, the Lithuanian version shall prevail.

The accreditation certificate is signed with a qualified electronic signature as an attachment to the order of the Director of the National Accreditation Bureau, by which it was approved