

**SNAS**SLOVENSKÁ NÁRODNÁ
AKREDITAČNÁ SLUŽBA**CERTIFICATE
OF ACCREDITATION****No. S-045**

dated 09.12.2024

The Slovak National Accreditation Service issues a Certificate of Accreditation to an accredited body pursuant to Section 26 par.6 of Act No. 53/2023 Coll. on Accreditation of Conformity Assessment Bodies (hereinafter referred to as the "Accreditation Act").

Technický a skúšobný ústav stavebný, n.o.

Studená 3, 821 04 Bratislava, Slovak Republic

ID Number: 31 821 987

Organizational unit performing the activity of the Accredited Body:

Testing Laboratory,

Workplace of the Accredited Body:

Testing Workplace Bratislava, Studená 3, 821 04 Bratislava

Testing Workplace Nové Mesto nad Váhom, Trenčianska 1875/12, 915 05 Nové Mesto nad Váhom

Testing Workplace Nitra, Braneckého 2, 949 01 Nitra

Testing Workplace Zvolen, Jesenského 15, 960 01 Zvolen

Testing Workplace Žilina, A. Rudnaya 90, 010 01 Žilina

Testing Workplace Košice, Krmanova 5, 040 01 Košice

Testing Workplace Prešov, Budovateľská 53, 080 01 Prešov

Testing Workplace Tatranská Štrba, Bellova 72/24, 059 41 Štrba - Tatranská Štrba

Identification number of the Accredited Body: 004/S-045**Area of accreditation: Testing laboratory**

The accredited body demonstrated its competence to perform the accredited activity fulfilling the accreditation requirements of **ISO/IEC 17025: 2017** Standard when performing tests of construction products and building structures, sampling of fresh, hardened and sprayed concrete within the accreditation scope delineated in the Annex of this Certificate of Accreditation. The Annex shall form an integral part of the Certificate of Accreditation.

Number and date of issue of the accreditation decision: No. 004/11667/2024/1 dated 04.12.2024**Validity of the accreditation decision:**

The accreditation decision No. 004/11667/2024/1 dated 04.12.2024 is valid from 21.12.2024 to 21.12.2029.

The validity of this Accreditation Certificate expires upon the expiry of the accreditation decision, the decision on withdrawal of the accreditation pursuant to Section 31 or the expiry of the accreditation pursuant to Section 32 of the Accreditation Act.


Štefan Král
director

record number: 11667/328704

SNAS is signatory to the EA MLA and ILAC MRA.

Annex to the Certificate of Accreditation No. dated 09.12.2024.

The Annex is an integral part of the
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Scope of Accreditation

Accredited body: Building Testing and Research Institute, n. o.
Studená 3, 821 04 Bratislava, Slovak Republic

Organizational unit and workplace performing the activity of the accredited body:
Testing laboratory

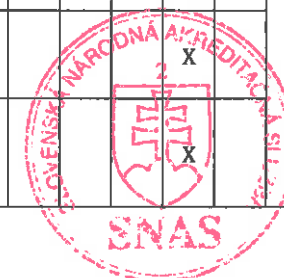
Place of performance of the accredited body:
Testing workplace Bratislava (BA), Studená 967/3, 821 04 Bratislava, Slovak Republic
Testing workplace Nové Mesto nad Váhom (NM), Trenčianska 1875/12, 915 05 Nové Mesto nad Váhom, Slovak Republic
Testing workplace Nitra (NR), Braneckého 1522/2, 949 01 Nitra, Slovak Republic
Testing workplace Zvolen (ZV), Jesenského 15, 960 01 Zvolen, Slovak Republic
Testing workplace Žilina (ZA), A. Rudnaya 2372/90, 010 01 Žilina, Slovak Republic
Testing workplace Košice (KE), Krmanova 848/5, 040 01 Košice, Slovak Republic
Testing workplace Prešov (PO), Budovateľská 3625/53, 080 01 Prešov, Slovak Republic
Testing workplace Tatranská Štrba (TS), Bellova 72/24, 059 41 Štrba - Tatranská Štrba, Slovak Republic

Identification number of the accredited body: 004/S-045

Laboratory with fixed scope

Item	Object of the test				Other specifications									Place to perform
	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Indication	Test conditions, results evaluation	Testing workplace								
						BA	NM	NR	ZV	ZA	KE	PO	TS	
1.1	Aggregates and bulk thermal insulation materials	Particle size and content of fine grains	sieve analysis, weight measurement	STN EN 933-1		X	X	X	X		X	X		L ¹⁾
1.2		Flakiness index	sieve analysis, length measurement, weight measurement	STN EN 933-3		X	X	X	X					
1.3		Shape index	sieve analysis, length measurement, weight measurement	STN EN 933-4		X	X	X	X		X			
1.4		Resistance to freezing and thawing	thermal stress, weight measurement	STN EN 1367-1			X	X	X			X		
1.5		Resistance to abrasion	mechanical stress, sieve analysis, weight measurement	STN EN 1097-1		X						X		
1.6		Resistance to fragmentation	mechanical stress, sieve analysis, weight measurement	STN EN 1097-2			X	X	X			X		

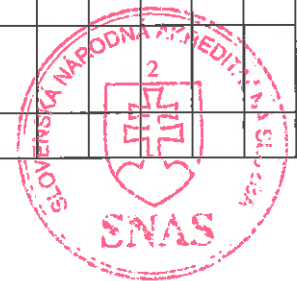
record number: 11667/328704



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	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Indication	Test conditions, results evaluation	BA	NM	NR	ZV	ZA	KE	PO	TS	
1.7	Aggregates and bulk thermal insulation materials	Particle density	weight measurement	STN EN 1097-6		X	X	X	X		X	X		L
1.8		Water absorption	weight measurement			X	X	X	X		X	X		
1.9		Resistance to weathering	chemical stress, weight measurement	STN EN 1367-2		X								
1.10		Alkali-aggregate expansion	chemical stress, titration, weight measurement, volume measurement	STN 72 1179		X								
1.11		Drying shrinkage	length measurement	STN EN 1367-4		X								
2.1	Cement	Compressive strength	force measurement, length measurement	STN EN 196-1	Evaluation: according to STN EN 197-1, STN EN 413-1 resp. STN EN 14216, STN EN 15743	X								L
2.2		Tensile strength in bending	force measurement, length measurement	STN EN 196-1		X								
2.3		Start of setting	time measurement	STN EN 196-3 STN EN 413-2	Evaluation: according to STN EN 197-1, STN EN 413-1 resp. STN EN 14216, STN EN 15743	X								
2.4		End of setting	time measurement	STN EN 196-3 STN EN 413-2		X								
2.5		Soundness	length measurement	STN EN 196-3	Evaluation: according to STN EN 197-1, STN EN 413-1, STN EN 14216, STN EN 15743	X								
2.6		Indecomposable residue content	chemical stress (precipitation), gravimetry	STN EN 196-2	Method: decomposition in HCl and Na ₂ CO ₃ , Method: decomposition in HCl and KOH Evaluation: according to STN EN 197-1, STN EN 413-1, STN EN 14216, STN EN 15743	X								
2.7		Loss on ignition	gravimetry	STN EN 196-2		X								
2.8		Sulphate content (as SO ₃)	chemical stress (precipitation)	STN EN 196-2	Evaluation: according to STN EN 197-1, STN EN 413-1, STN EN 14216, STN EN 15743	X								
2.9		Chloride content	titration (volumetric analysis)	STN EN 196-2		X								
2.10		Fineness of grinding (sieve residue)	sieve analysis, weight measurement	STN EN 196-6	Screening method Evaluation: according to STN EN 413-1	X								
2.11		Carbon dioxide content	gravimetry	STN EN 196-2		X								

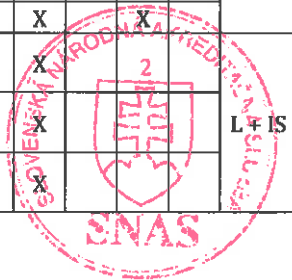


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2.12	Cement	Alkali content	flame photometry, gravimetry	STN EN 196-2		X								L	
2.13		Specific surface (Blaine)	time measurement, weight measurement	STN EN 196-6	Air permeability method (Blaine's method)	X									
2.14		Content of the water-soluble chromium Cr6+	spectrophotometry after extraction	STN EN 196-10		X									
3.1	Concrete, concrete and reinforced concrete structures	Fresh concrete consistency	length measurement	STN EN 12350-2		X				X				L + IS	
3.2			length measurement	STN EN 12350-5						X					
3.3			time measurement	STN EN 12350-3		X									
3.4		Fresh concrete density	length measurement, weight measurement	STN EN 12350-6						X					
3.5		Air content in fresh concrete	pressure distribution	STN EN 12350-7						X				L	
3.6		Compressive strength of hardened concrete	force measurement, length measurement	STN EN 12390-3		X		X	X	X	X	X			
3.7				STN 73 1317					X						
3.8				STN EN 12504-1		X			X	X		X			
3.9		Flexural strength	force measurement, length measurement	STN EN 12390-5		X		X		X		X			
3.10		Tensile splitting strength	force measurement, length measurement	STN EN 12390-6		X		X		X		X			
3.11		Hardened concrete density	length measurement, weight measurement	STN EN 12390-7		X	X	X	X	X	X	X			
3.12		Depth of penetration of water under pressure	length measurement	STN EN 12390-8			X			X		X			
3.13		Freeze-thaw resistance	thermal stress	STN 73 1322		X		X		X	X	X			
3.14		Resistance of cement concrete surface to water and defrosting chemicals	thermal stress, chemical stress, length measurement, weight measurement	STN 73 1326		X	X	X		X		X			
3.15		Secant modulus of elasticity in compression	force measurement, length measurement	STN EN 12390-13		X						X			
3.16		Concrete moisture content	weight measurement	STN 73 1316		X	X			X		X			
3.17		Tensile strength of surface layers of concrete	force measurement, length measurement	STN 73 6242						X		X			
3.18		Compressive strength - sclerometry	rebound number measurement	STN 73 1373 STN EN 12504-2						X		X			
3.19		Compressive strength of young sprayed concrete (needle penetration)	force measurement	STN EN 14488-2						X		X			

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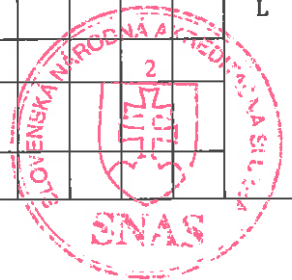
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						BA	NM	NR	ZV	ZA	KE	PO	TS	
3.20	Concrete, concrete and reinforced concrete structures	Compressive strength of young sprayed concrete (nail pulling)	force measurement	STN EN 14488-2						X				L + IS
4.1	Fly ash for concrete, silica fume for concrete and ground granulated blast furnace slag for concrete, mortar and grout	Activity index - compressive strength	force measurement, length measurement	STN EN 196-1	Evaluation: according to STN EN 450-1, STN EN 13263-1+A1, STN EN 15167-1	X								L
4.2		Fineness by wet sieving	sieve analysis, length measurement	STN EN 451-2		X								
4.3		Soundness	length measurement	STN EN 196-3		X								
4.4		Free calcium oxide content	titration (volumetric analysis)	STN EN 451-1		X								
4.5		Loss on ignition	gravimetry	STN EN 196-2		X								
4.6		Total content of silicon dioxide, aluminium oxide and ferric oxide	titration (volumetric analysis)	STN EN 196-2		X								
4.7		Total alkali content	flame photometry	STN EN 196-2		X								
4.8		Active silicon dioxide content (SiO ₂)	gravimetry		X									
4.9		Sulfur trioxide content	gravimetry		X									
4.10		Chloride content	titration (volumetric analysis)		X									
4.11		Active calcium oxide content (CaO)	titration (volumetric analysis)	STN EN 196-2	X									
4.12		Magnesium oxide content	titration (volumetric analysis)		X									
4.13		Start of setting	time measurement	STN EN 196-3	X									
5.1	Mortar for masonry and plasters	Bulk density of hardened mortar	length measurement, weight measurement	STN EN 1015-10		X								L
5.2		Compressive strength of hardened mortar	force measurement, length measurement	STN EN 1015-11	Conditions: even after cycles according to STN 72 2452	X								
5.3		Adhesive strength of hardened mortar	force measurement, length measurement	STN EN 1015-12	Conditions: even after weathering cycles according to STN EN 1015-21	X								
5.4		Capillary absorption	weight measurement	STN EN 1015-18		X								
5.5		Water soluble chloride content	titration (volumetric analysis)	STN EN 1015-17		X								
5.6		Air content in fresh mortar	pressure distribution	STN EN 1015-7	Method A - Pressure method	X								

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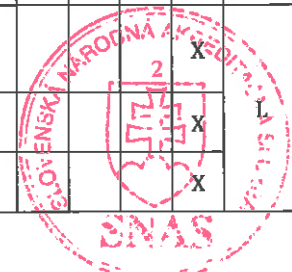


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6.1	Binders, screed material and floor screeds	Compressive strength	force measurement, length measurement	STN EN 13892-2		X							X	L
6.2		Flexural strength	force measurement, length measurement	STN EN 13892-2	Applies to: screed mortars and screeds	X							X	
6.3	Binders, screed material and floor screeds	Bond strength	force measurement, length measurement	STN EN 13892-8									X	L
6.4		Impact resistance	force measurement, length measurement, visual assessment	STN EN ISO 6272-1									X	
7.1	Products and systems for the protection and repair of concrete structures	Depth of penetration	length measurement	STN EN 1504-2									X	L
7.2		Water absorption and resistance to alkali	chemical stress, weight measurement	STN EN 13580									X	
7.3		Drying speed coefficient	weight measurement	STN EN 13579									X	
7.4		Water vapour transmission	weight measurement	STN EN ISO 7783									X	
7.5		CO ₂ permeability	weight measurement	STN EN 1062-6									X	
7.6		Capillary water absorption and waterproofing	weight measurement	STN EN 1062-3									X	
7.7		Resistance to temperature changes	thermal stress, force measurement, length measurement	STN EN 13687-1	Expression of results: qualitative Applies to: products for outdoor use under the influence of deicing salts								X	
7.8				STN EN 13687-2	Expression of results: qualitative Applies to: products for outdoor use under the influence of stormy rain								X	
7.9				STN EN 13687-3	Expression of results: qualitative Applies to: products for outdoor use without the influence of deicing salts								X	
7.10				STN EN 13687-5	Expression of results: qualitative Applies to: products exposed to physical influences								X	
7.11		Pull-off test to evaluate the adhesion	force measurement, length measurement	STN EN 1542		X				X			X	
7.12		Artificial ageing	thermal/chemical stress, visual assessment	STN EN 1062-11									X	
7.13		Compressive strength	force measurement, length measurement	STN EN 12190									X	
7.14		Resistance to severe chemical attack	chemical stress, length measurement	STN EN 13529	Expression of results: qualitative								X	

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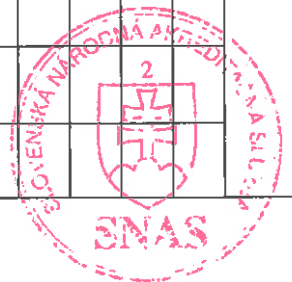
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8.1	Fibres for concrete	Limit of proportionality (LOP) and residual flexural tensile strength	force measurement, length measurement	STN EN 14651+A1		X								L
8.2		Tensile strength and flexural modulus	force measurement, length measurement	STN EN ISO 6892-1		X								
8.3	Fibres for concrete	Concrete consistency	time measurement	STN EN 12350-3		X								L
9.1	Natural stone products - standard tiles, slabs for floors and stairs, slabs, setts and curbs for external paving	Freeze-thaw resistance	thermal stress, length measurement, weight measurement	STN EN 12371			X							L
10.1	Concrete precast units -paving blocks, tiles and curbs	Resistance to deicing salts	thermal stress, length measurement, weight measurement	STN EN 1338 STN EN 1339 STN EN 1340	Evaluation: according to STN EN 1338, cl.5.3.2.2, STN EN 1339, cl. 5.3.2.2 STN EN 1340, cl. 5.3.2.2	X								L
10.2		Flexural strength	force measurement, length measurement	STN EN 1339 STN EN 1340		X								
11.1	Masonry and shuttering units and fittings	Dimensions	length measurement	STN EN 772-16	Evaluation: according to STN EN 771-1, STN EN 771-2, STN EN 771-3, STN EN 771-4, STN EN 771-5	X	X							L
11.2		Density	length measurement, weight measurement	STN EN 772-13	Evaluation: according to STN EN 771-1, STN EN 771-3, STN EN 771-4, STN EN 771-5	X								
11.3		Compressive strength	force measurement, length measurement	STN EN 772-1 + A1	Conditions: even after cyclic freezing and thawing according to STN 72 2606, resp. STN EN 772- 18	X								
11.4		Cohesion (initial shear strength)	force measurement, length measurement	STN EN 1052-3		X								
11.5		Tensile strength	force measurement, length measurement	STN EN 15435		X								
11.6		Flexural strength	force measurement, length measurement			X								

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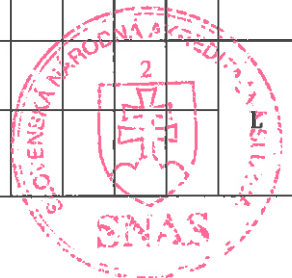
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	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Indication	Test conditions, results evaluation	Testing workplace								Place to perform	
						BA	NM	NR	ZV	ZA	KE	PO	TS		
12.1	Ancillary components for masonry – clips, draws, hangers, brackets and bed joint reinforcement of steel mesh	Tensile properties (tensile strength, yield strength, elongation, contraction)	force measurement	STN EN ISO 6892-1		X									L
12.2		Bond strength	force measurement	STN EN 846-2 STN EN 846-5 STN EN 846-6 STN EN 846-7		X									
13.1	Mortars, adhesives and waterproofing for tiles	Tensile adhesion strength	force measurement, length measurement	STN EN 12004-2	Conditions: even after immersion in water, after storage at higher temperatures, after freeze-thaw cycles	X								X	L
13.2		Open time	time measurement	STN EN 12004-2										X	
13.3		Transverse deformation	length measurement	STN EN 12004-2										X	
13.4		Slip	length measurement	STN EN 12004-2										X	
13.5		Depth of penetration of water under pressure	length measurement	STN EN 14891										X	
14.1	Doors and windows	Air permeability	air flow measurement	STN EN 1026	Evaluation: according to STN EN 12207			X							L
14.2		Watertightness	visual assessment	STN EN 1027	Evaluation: according to STN EN 12208			X							
14.3		Resistance to wind load	mechanical stress, length measurement	STN EN 12211	Evaluation: according to STN EN 12210			X							
14.4		Thermal transmittance	calculation	STN EN ISO 10077-2 STN EN ISO 10077-1				X							
15.1	Timber prefabricated structural elements	Timber moisture	weight measurement	STN EN 13183-1 ISO 13061-1/A1 STN EN 322					X						L
15.2			moisture measurement	STN EN 13183-2					X						
16.1	Timber structures	Bearing capacity and deformation	force measurement, length measurement	STN EN 380 STN EN 26891					X						L
16.2		Racking strength and stiffness of timber frame wall panels	force measurement, length measurement	STN EN 594					X						

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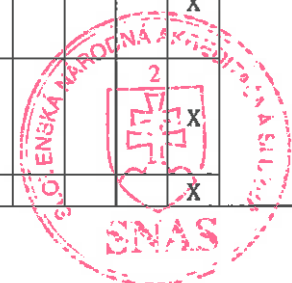
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17.1	Glued laminated timber and glued solid timber	Bonding strength (Wedge bond strength; Lamellas bending strength)	force measurement, length measurement	STN EN 408	Additional requirements according to STN EN 14080, Annex E				X					L
17.2		Durability of bonding strength - delamination (or Integrity of the bonded joint of lamellas of glued laminated timber and glued solid timber)	length measurement	STN EN 14080					X					
17.3		Durability of bonded joint - glued timber moisture	moisture measurement, length measurement	STN EN 13183-2 STN EN 13183-1					X					
17.4		Durability of bonding strength - shear strength of bonded joint	force measurement, qualitative (visual assessment)	STN EN 14080					X					
18.1	Structural solid timber with wedge bond	Bonding strength (Lamellas wedge bond strength)	force measurement, length measurement	STN EN 408					X					L
18.2		Durability of bonded joint - glued timber moisture	moisture measurement, weight measurement	STN EN 13183-2 STN EN 13183-1					X					
19.1	Glass in construction	Resistance to pendulum impact	weight measurement	STN EN 12600					X					L
20.1	Flexible sheets for waterproofing	Watertightness	visual assessment	STN EN 1928	Conditions: even after UV radiation acc STN EN 1297 and after exposure to heat acc STN EN 1296; after exposure to liquid chemicals including water according to STN EN 1847; after exposure to asphalt according to STN EN 1548, according to STN EN 13859-1, -2, STN EN 13969, STN EN 13967, STN EN 13984, EN 14909								X	L
20.2		Resistance to water penetration	weight measurement	STN EN 13111	Conditions: even after UV radiation acc STN EN 1297 and after exposure to heat acc STN EN 1296, according to STN EN 13859-1, -2								X	
20.3		Tensile properties (max. tensile force, elongation)	force measurement, length measurement	STN EN 12311-1	Conditions: even after UV radiation acc STN EN 1297 and after exposure to heat acc STN EN 1296; according to STN EN 13859-1, -2								X	
20.4	Flexible sheets for	Tensile properties (max. tensile force,	force measurement,	STN EN 12311-2	Applies to: plastic and rubber sheets								X	

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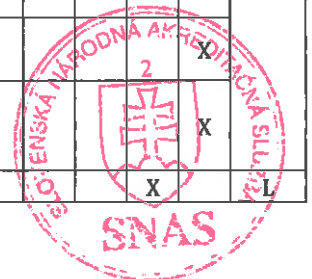
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	waterproofing	tensile stress, elongation)	length measurement		Conditions: even after UV radiation acc STN EN 1297 and after exposure to heat acc STN EN 1296									
20.5		Shear strength of joints	force measurement, length measurement	STN EN 12317-2	Applies to: plastic and rubber sheets Conditions: even after exposure to heat acc STN EN 1296; after exposure to liquid chemicals including water according to STN EN 1847								X	
20.6		Peel resistance of joints	force measurement, length measurement	STN EN 12316-2	Applies to: plastic and rubber belts Conditions: even after exposure to heat acc STN EN 1296, after exposure to liquid chemicals including water according to STN EN 1847								X	
20.7		Flexibility at low temperature	visual assessment	STN EN 1109	Conditions: even after exposure to heat acc STN EN 1296								X	
20.8		Flexibility at low temperature	visual assessment	STN EN 495-5	Applies to: plastic and rubber roof sheets Conditions: even after exposure to heat acc STN EN 1296								X	L
20.9		Impact resistance	visual assessment	STN EN 12691									X	
20.10		Resistance to tearing	force measurement	STN EN 12310-1	Conditions: even after exposure to heat acc STN EN 1296, STN EN 13859-1, -2								X	
20.11				STN EN 12310-2	Applies to: plastic and rubber roof sheets								X	
20.12		Resistance to static loading	visual assessment	STN EN 12730									X	
20.13		Water vapour transmission	weight measurement	STN EN ISO 12572	Conditions: even acc STN EN 13859-1, -2								X	
20.14				STN EN 1931	Conditions: even after exposure to heat acc STN EN 1296, STN EN 13984, according to STN EN 13859-1, -2								X	
20.15		Dimensional stability	length measurement	STN EN 1107-2	Applies to: plastic and rubber sheets								X	
20.16		Mass per unit area, thickness	length measurement, weight measurement	STN EN 1849-2	Applies to: plastic and rubber sheets								X	
21.1	Reinforcing bars,	Dimensions	length measurement	STN EN ISO 15630-1								X		L

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						BA	NM	NR	ZV	ZA	KE	PO	TS	
21.2	rods, welded meshes and spatial (latticed) reinforcement	Bend and rebend	visual assessment	STN EN ISO 15630-1	Conditions: after artificial aging at 100 °C+	X						X		L
21.3		Anchorage strength	force measurement	STN EN 10080 ISO 10406-1		X								
21.4		Tensile properties (tensile strength, yield strength, ductility)	force measurement	STN EN ISO 15630-1		X						X		
21.5				STN EN ISO 15630-2		X						X		
21.6		Tensile properties (tensile strength, ductility, modulus of elasticity)		ISO 10406-1		X								
21.7		Shear strength of the welded joint	force measurement	STN EN ISO 15630-2		X						X		
21.8		Nominal weight	weight measurement	STN EN 10080		X						X		
22.1	Prestressing products - wires, ropes and rods, plastic coatings of ropes	Tensile properties (tensile strength, yield strength, ductility, modulus of elasticity)	force measurement, length measurement	STN EN 15630-3		X								L
22.2		Relaxation	force measurement, length measurement			X								
22.3		Nominal mass per metre	weight measurement			X								
22.4		Corrosion resistance of a mechanically stressed specimen in a tensoactive thiocyanate environment	chemical stress, force measurement, length measurement	STN EN ISO 15630-3		X								
22.5		Transverse tensile test of a deflected specimen	force measurement, length measurement	STN EN ISO 15630-3		X								
23.1	Thermal insulation products	Length and width	length measurement	STN EN ISO 29465				X					X	L
23.2		Thickness	length measurement	STN EN ISO 29466				X					X	
23.3			length measurement	STN EN ISO 29770	Applies to: special loading conditions				X					
23.4		Squareness	length measurement	STN EN 824				X						
23.5		Flatness	length measurement	STN EN ISO 29468				X						
23.6		Density	length measurement, weight measurement	STN EN ISO 29470				X					X	
23.7		Compressive properties (compressive strength, compression, stress at 10% deformation, modulus of elasticity)	force measurement, length measurement	STN EN ISO 29469				X					X	
23.8		Dimensional stability under specified temperature and humidity conditions	length measurement	STN EN 1604				X						
23.9		Deformation under specified compressive load and temperature conditions	length measurement	STN EN 1605				X						
23.10	Thermal insulation	Tensile strength perpendicular to faces	force measurement, length measurement	STN EN 1607	Conditions: even after climatic stress according to 2.2.14.2 EAD 040083-00-0404			X						

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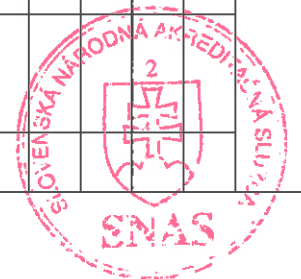


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	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Indication	Test conditions, results evaluation	Testing workplace								
						BA	NM	NR	ZV	ZA	KE	PO	TS	
23.11	products	Short term water absorption	weight measurement,	STN EN ISO 29767				X						
23.12		Water vapour transmission	length measurement,	STN EN 12086				X						
23.13		Long term water absorption	time measurement	STN EN ISO 16535				X						
23.14		Bending properties (bending strength, bending stress, deflection)	force measurement, length measurement	STN EN 12089				X						
23.15		Shear properties (shear strength, shear modulus)	force measurement, length measurement	STN EN 12090				X						
23.16		Thermal resistance and thermal conductivity	heat flow density measurement	STN EN 12667				X						
24.1	Thermal insulation systems ETICS	Hygrothermal behaviour	temperature measurement, moisture measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404		X							L	
24.2		Water absorption - capillarity test	weight measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404		X						X		
24.3	Thermal insulation systems ETICS	Resistance to hard body impact	length measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040465-00-0404		X							L	
24.4		Water vapour permeability	time measurement, length measurement, weight measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040465-00-0404	Conditions: according to 2.2.9 EAD 040083-00-0404							X		
24.5		Bond strength	force measurement, length measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404	Conditions: even according to EAD 040083-00-0404, 2.2.20.1 and 2.2.20.2; after hygrothermal cycles according to EAD 040083-00-0404, 2.2.6; after the freeze-thaw cycles according to EAD 040083-00-0404, 2.2.7; after soaking and drying according to EAD 040083-00-0404, 2.2.11.2 or 2.2.11.3	X						X		
24.6		Pull-through test of fixings	force measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040465-00-0404		X								
24.7	Thermal insulation systems	Static test of the foam block	force measurement, length measurement	EAD 040083-00-0404 EAD 040089-00-0404		X								

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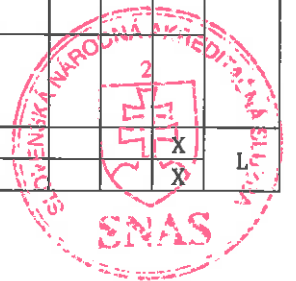
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	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Indication	Test conditions, results evaluation	BA	NM	NR	ZV	ZA	KE	PO	TS	
	ETICS			EAD 040465-00-0404										L
24.8		Tensile properties of reinforcing mesh	force measurement, length measurement	EAD 040016-00-0404 EAD 040083-00-0404	Conditions: in the state of delivery; after ageing according to EAD 040016-00-0404, EAD 040083-00-0404								X	
24.9		Render strip tensile test	length measurement	EAD 040083-00-0404 EAD 040465-00-0404									X	
24.10		Static modulus of mortar strip	force measurement, length measurement	EAD 040083-00-0404 EAD 040287-00-0404 EAD 040427-00-0404									X	
24.11		Ash content	gravimetry, weight measurement	EAD 040016-00-0404 EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404		X							X	
24.12		Dry matter content	gravimetry, weight measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404		X								
24.13		Particle size	sieve analysis, weight measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404		X								
24.14		Density	length measurement, weight measurement	EAD 040083-00-0404 EAD 040089-00-0404 EAD 040287-00-0404 EAD 040427-00-0404 EAD 040465-00-0404		X								
24.15		Deformation	length measurement	EAD 040083-00-0404 EAD 040465-00-0404		X								
25.1	Paints and	Non-volatile-matter content	weight measurement	STN EN ISO 3251									X	L
25.2	varnishes	Film thickness	length measurement	STN EN ISO 2808	Method 4A (difference in thickness)								X	

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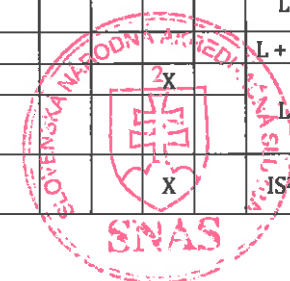
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Item	Subject / Matrix / Environment	Object of the test Property / Parameter / Indicator / Analyte	Established method		Other specifications									Place to perform	
			Principle / Kind / Type	Indication	Test conditions, results evaluation	Testing workplace									
						BA	NM	NR	ZV	ZA	KE	PO	TS		
						Method 4B (fathometer)								X	
						Method 6B (V-cut)								X	
						Method 7C (magnetic induction)								X	
						Method 7D (eddy currents)								X	
25.3		Buchholz hardness	length measurement	STN EN ISO 2815										X	
25.4		Corrosion resistance	chemical stress, visual assessment	STN EN ISO 6270-1	Continuous condensation – Conditions: even according to STN EN 12944-6; Evaluation according to STN EN 12944-6									X	
25.5			chemical stress, visual assessment	STN EN ISO 9227	Salt chamber – Conditions: even according to STN EN 12944-6; Evaluation according to STN EN 12944-6									X	
25.6			visual assessment	STN EN ISO 2812-2	Resistance to liquids – Conditions: even according to STN EN 12944-6; Evaluation according to STN EN 12944-6									X	
25.7			visual assessment	STN EN 12944-6	Method of immersion to water – Conditions: even according to STN EN 12944-6; Evaluation according to STN EN 12944-6									X	
25.8			Pull-off test for adhesion	chemical stress, thermal stress, visual assessment	STN EN ISO 4624										X
25.9		Water absorption	weight measurement	STN EN 927-5	Evaluation according to STN EN 927-2									X	
25.10		Resistance to weathering	visual assessment	STN EN 927-3	Evaluation according to STN EN 927-2									X	
25.11		Adhesion – Cross-cut test	visual assessment	STN EN ISO 2409										X	
26.1	Surface treatment of components and structures	Adhesion of building construction coating to the base	force measurement, length measurement	STN 73 2577						X				X	L
26.2		Watertightness of surface finish of building structures	length measurement	STN 73 2578										X	
26.3		Frost resistance of surface finish of building structures	force measurement, length measurement	STN 73 2579										X	
27.1	Building structures and components	Dimensions	length measurement	STN EN 846-11	For ancillary components for masonry - lintels	X									L
27.2		Bearing capacity of building components and structures	force measurement, length measurement	STN 73 2030	For building structures	X									L + IS
27.3				STN EN 124-1	For manhole tops and gully tops							X		L	
27.4				STN EN 846-9	For ancillary components for masonry - lintels	X									L
28.1	Bridges	Static functionality	load test (length measurement)	STN 73 6209	Load determined externally by a verified scale	X								X	IS ²⁾

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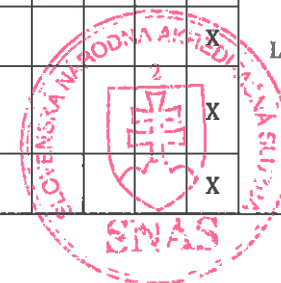


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	Subject / Matrix / Environment	Property / Parameter / Indicator / Analyte	Principle / Kind / Type	Indication	Test conditions, results evaluation	BA	NM	NR	ZV	ZA	KE	PO	TS	
28.2		Dynamic functionality	load test (length measurement)	STN ISO 4866 STN EN 1990 STN 73 6209	Load determined externally by a verified scale	X								
29.1	Pile foundations and ground rock anchors	Bearing capacity	load test (force measurement, length measurement)	STN 73 1002	For pile foundations generally Evaluation: STN 73 1002							X		IS
29.2				STN EN 14199	For micropiles Evaluation: STN 73 1002							X		
29.3				STN EN 1536+A1	For bored piles Evaluation: STN 73 1002							X		
29.4				STN EN 1537	For ground rock anchors							X		
29.5				STN EN ISO 22477-1								X		
29.6				STN EN ISO 22477-2								X		
30.1	Road traffic noise reducing devices	Danger of falling debris	visual assessment, length measurement, weight measurement	STN EN 1794-2		X								L
30.2		Resistance to impact of stones	visual assessment, length measurement	STN EN 1794-1+AC		X								
31.1	Soils	Concretion degree	load test (force measurement, length measurement)	STN 73 6190						X				IS
31.2		Bearing capacity	load test (length measurement)	STN 73 6192						X				
32.1	Small wastewater treatment systems for up to 50 PT and water and sewage tanks	Watertightness	visual assessment, length measurement, volume measurement	STN EN 12566-1 STN EN 12566-3						X				L + IS
32.2			length measurement	STN 75 0905						X				
33.1	Sealants	Elastic recovery	length measurement	STN EN ISO 7389									X	L
33.2		Flowability in the groove	length measurement	STN EN ISO 7390									X	
33.3		Tensile properties at maintained extension	mechanical stress, visual assessment	STN EN ISO 8340	Conditions even according to STN EN 15651-1, -2, -4								X	
33.4		Adhesion/cohesion at constant temperature	mechanical stress, visual assessment	STN EN ISO 9046									X	
33.5		Adhesion/cohesion at variable temperatures	mechanical stress, thermal stress, visual assessment	STN EN ISO 9047									X	
33.6	Sealants	Adhesion/cohesion at maintained extension after immersion in water	mechanical stress, visual assessment	STN EN ISO 10590									X	

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33.7		Adhesion/cohesion after immersion in water – relative elongation	mechanical stress, visual assessment	STN EN ISO 10591									X	
33.8		Change in volume	thermal stress, weight measurement	STN EN ISO 10563									X	
33.9		Secant modulus	force measurement, length measurement	STN EN ISO 8339	Conditions even according to STN EN 15651-1, -2, -4								X	
33.10		Elongation at break	force measurement, length measurement	STN EN ISO 8339									X	
34.1	Plastics	Tensile properties (tensile strength, elongation)	force measurement, length measurement	STN EN ISO 527-1 STN EN ISO 527-2 STN EN ISO 527-3	Conditions: even after temperature aging, after exposure to chemicals								X	L
35.1	Mixing water for concrete	Compressive strength	force measurement, length measurement	STN EN 196-1	Conditions and evaluation: according to STN EN 1008	X								L
35.2		Start of setting	time measurement	STN EN 196-3 STN EN 413-2	Conditions and evaluation: according to STN EN 1008	X								
35.3		End of setting	time measurement	STN EN 196-3 STN EN 413-2		X								
35.4		Sulphate content (SO ₃)	chemical stress (precipitation), gravimetry	STN EN 196-2		X								
35.5		Alkali content	flame photometry	STN EN 196-2	Evaluation: according to STN EN 1008	X								
36.1	Construction products	Reaction to fire	measurement of skills to contribute to the spread of fire	STN EN ISO 11925-2	Conditions: even acc STN EN 13238, ISO 14697, STN P CEN/TS 15447 Evaluation: according to STN EN 13501-1 (classes: E, E _L , E _n , F, F _L , F _n)								X	L

Notes:

1) L = Laboratory

2) IS = at the place of installation (In Situ)

Sampling

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1	Fresh concrete	Sampling	sampling with a sampling shovel or comparable device into cement slurry resistant containers	STN EN 12350-1	Items 3.1 ÷ 3.16					X				IS
2	Hardened concrete	Sampling	core drilling	STN EN 12504-1	Items 3.6 ÷ 3.16					X				IS
3	Sprayed concrete	Sampling	core drilling	STN EN 14488-1	Items 3.19, 3.20					X				IS

Note:

Notifying authority: Ministry of Transport of the Slovak Republic. In support of the manufacturer's declaration of performance in system 3 (III) according to Regulation of the European Parliament and Council no. 305/2011 (Act NR SR No. 133/2013 Coll. and Decree of the Ministry of Transport, Construction and Regional Development of the SR No. 162/2013 for the tests listed in the following table:

Established method	Item	Established method	Item	Established method	Item
STN EN 197-1	2.1, 2.3 ÷ 2.9	STN EN 771-4	11.1, 11.2	EAD 040287-00-0404	24.1, 24.2, 24.5, 24.10 ÷ 24.14
STN EN 413-1	2.1, 2.3 ÷ 2.10	STN EN 771-5	11.1, 11.2	EAD 040427-00-0404	24.1, 24.2, 24.5, 24.10 ÷ 24.14
STN EN 14216	2.1, 2.3 ÷ 2.9	STN EN 14080	17.2, 17.4	EAD 040465-00-0404	24.1 ÷ 24.7, 24.9, 24.11 ÷ 24.15
STN EN 15743	2.1, 2.3 ÷ 2.9	STN EN 13859-1	20.1, 20.2, 20.3, 20.10, 20.13, 20.14	EAD 040016-00-0404	24.8, 24.11
STN EN 450-1	4.1 ÷ 4.13	STN EN 13859-2	20.1, 20.2, 20.3, 20.10, 20.13, 20.14	STN EN 12566-1	32.1
STN EN 13263-1	4.1 ÷ 4.13	STN EN 13969	20.1	STN EN 12566-3	32.1
STN EN 15167	4.1 ÷ 4.13	STN EN 13967	20.1	STN EN 15651-1	33.3, 33.9
STN EN 1504-2	7.1	STN EN 13984	20.1	STN EN 15651-2	33.3, 33.9
STN EN 771-1	11.1, 11.2	STN EN 14909	20.1	STN EN 15651-4	33.3, 33.9
STN EN 771-2	11.1, 11.2	EAD 040083-00-0404	23.10, 24.1 ÷ 24.15	STN EN ISO 11925-2	36.1
STN EN 771-3	11.1, 11.2	EAD 040089-00-0404	24.1 ÷ 24.7, 24.11 ÷ 24.14		

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