



**INSTITUT IMS AD  
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**Institute for testing materials a.d.  
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**PT PROVIDER IMS INSTITUTE REGISTER OF COMPETENCE CONFIRMATIONS**

S. №	Participant	Issuing date	№ of Confirmation	Programme (scheme) code	PT activity domain			Remarks
					Subject of testing/product	Testing method	Properties/parameters	
1.	Zavod za javno zdravlje Istarske županije, Služba za zdravstvenu ekologiju, Laboratorij za akustička mjerenja, Pula, Republic Croatia	24.09.15.	01/15	PIO BUK/a 01/15	Environmental noise level (traffic noise)	ISO 1996-2	$L_{Aeq}$ $L_{AE}$ $L_{AFmax}$ $L_{A5}$ $L_{A10}$ $L_{A50}$ $L_{A90}$ $L_{A95}$	z'-score
2.	Gradežen institut Makedonija a. d., Zavod Laboratorija – sektor ABK, Skopje, Republic Macedonia	20.11.15.	02/15	PIO CEM/fhm 01/15	Physical, chemical and mechanical properties of cement	EN 196-1 EN 196-2, a. 4 EN 196-3 EN 196-6, a. 3 & 4	prism mass flexural strength after 2, 7 & 28 days compressive strength after 2, 7 & 28 days standard consistency water content setting times soundness fineness by sieving method (mesh sieve of 90 & 45 $\mu$ m) fineness by Blaine method ignition loss $SiO_2$ content $Fe_2O_3$ content CaO content MgO content sulphate content insoluble residue in HCl/KOH & HCl/Na <sub>2</sub> CO <sub>3</sub> chlorine ion content	z'-score



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					Subject of testing/product	Testing method	Properties/parameters	
3.	Institut za puteve a. d., Zavod za građevinske materijale, Laboratorija za beton i veziva, Beograd, Republic Serbia	15.12.15.	03/15	PIO CEM/fhm 01/15	Physical, chemical and mechanical properties of cement	EN 196-1 EN 196-2, a. 4 EN 196-3 EN 196-6, a. 3 & 4	prism mass flexural strength after 2, 7 & 28 days compressive strength after 2, 7 & 28 days standard consistency water content setting times soundness fineness by sieving method (mesh sieve of 90 µm) fineness by Blaine method ignition loss SiO <sub>2</sub> content Al <sub>2</sub> O <sub>3</sub> content CaO content Na <sub>2</sub> O content K <sub>2</sub> O content sulphate content insoluble residue in HCl & Na <sub>2</sub> CO <sub>3</sub> chlorine ion content	z'-score
4.	Institut za zaštitu, ekologiju i obrazovanje, Tuzla, Bosnia and Herzegovina	15.04.16.	01/16	PIO KAG/fm 01/16	Physical and mechanical properties of stone aggregate	EN 933-1 EN 1097-2	particle size distribution of fractions: 0 ÷ 4 mm 8 ÷ 16 mm resistance to fragmentation by "Los Angeles" method	z-score
5.	OD Putna laboratorija 1957, Sarajevo, Bosnia and Herzegovina	18.04.16.	02/16	PIO KAG/fm 01/16	Physical and mechanical properties of stone aggregate	EN 933-1 EN 1097-2	particle size distribution of fractions: 0 ÷ 4 mm 4 ÷ 8 mm 8 ÷ 16 mm resistance to fragmentation by "Los Angeles" method	z-score



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6.	GEING Krebs und Kiefer International & others Ltd, Skopje, Republic Macedonia	25.04.16.	03/16	PIO KAG/fm 01/16	Mechanical properties of stone aggregate	EN 1097-2	resistance to fragmentation by "Los Angeles" method	z-score
7.	Centralni laboratorij "IGH" d.o.o., Mostar, Bosnia and Herzegovina	13.05.16.	04/16	PIO KAG/fm 01/16	Physical and mechanical properties of stone aggregate	EN 933-1 EN 1097-2	particle size distribution of fractions: 0 ÷ 4 mm 8 ÷ 16 mm resistance to fragmentation by "Los Angeles" method	z-score
8.	Cemex Hrvatska d.d., Odjeljenje osiguranja kvalitete, Kaštel Šućurac, Republic Croatia	06.02.17.	01/17	PIO CEM/h 01/16	Chemical properties of cement CEM II/A (S-L) 42.5 R	EN 196-2, a. 4 EN 196-2, a. 5	ignition loss, content of sulfate, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, CO <sub>2</sub> , Cl <sup>-</sup> , free CaO, and insoluble residue in HCl/KOH and HCl/Na <sub>2</sub> CO <sub>3</sub> content of sulfate, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, Na <sub>2</sub> O and K <sub>2</sub> O	z'-score, except for ignition loss and sulfate content (a.4) where z-score
9.	Building Research Institute – NISI Ltd., Testing Centre for Construction, Sofia, Bulgaria	06.02.17.	02/17	PIO OPC/f 03/16	Physical properties of clay bricks with vertical voids	EN 772-3 EN 772-11 EN 772-13 EN 772-21	net volume and percentage of voids initial rate of water absorption net and gross dry density water absorption by cold water	z'-score
10.	GEING Krebs und Kiefer International & others Ltd, Skopje, Republic Macedonia	06.04.17.	03/17	PIO BUK/a 01/16	Environmental noise level (indoors)	ISO 1996-2	L <sub>AeqT</sub> L <sub>Aeq 125 Hz, T</sub> L <sub>Aeq 500 Hz, T</sub> L <sub>Aeq 8kHz, T</sub>	z-score
11.	ADING a.d., Skopje, Republic Macedonia	26.04.17.	04/17	PIO KAG/fm 01/17	Physical properties of stone aggregate	EN 933-4	determination of particle shape – shape index	z-score
12.	CHIMAR HELLAS S.A., Thessaloniki, Greece	08.05.17.	05/17	PIO PIV/fm 01/17	Physical and mechanical properties of OSB chipboard	EN 310 EN 317 EN 321	modulus of elasticity and bending strength swelling in thickness moisture resistance	z'-score



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13.	Institut za zaštitu, ekologiju i obrazovanje d.d., Tuzla, Bosnia and Herzegovina	11.05.17.	06/17	PIO KAG/f 03/16	Physical properties of stone aggregate	EN 933-1	particle size distribution of fraction 0 ÷ 4 mm (except fraction 2 ÷ 4 mm)	z-score
14.	OD Putna laboratorija 1957, Sarajevo, Bosnia and Herzegovina	16.05.17.	07/17	PIO KAG/fm 01/17	Physical properties of stone aggregate	EN 933-4 EN 1097-3	determination of particle shape – shape index determination of loose bulk density	z-score
15.	Cemex Hrvatska d.d., Odjeljenje osiguranja kvalitete, Kaštel Šućurac, Republic Croatia	02.06.17.	08/17	PIO CEM/h 01/17	Chemical properties of cement CEM II/A (S-L) 42.5 R	EN 196-2, a. 4 EN 196-2, a. 5 EN 196-10	ignition loss, content of sulfate, CO <sub>2</sub> , Cl <sup>-</sup> ion, free CaO, and insoluble residue in HCl/KOH and HCl/Na <sub>2</sub> CO <sub>3</sub> content of sulfate, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, Na <sub>2</sub> O and K <sub>2</sub> O content of water-soluble chromium (VI)	z'-score, except for ignition loss where z-score
16.	ITM Sh.p.k., Tirane, Albania	15.06.17.	09/17	PIO BIT/fm 01/17	Physical properties of bitumen for road construction	EN 1427	determination of softening point – ring and ball method	z-score
17.	Institut za bezbednost i humanizaciju rada d.o.o., Novi Sad, Republic Serbia	10.07.17.	10/17	PIO BUK/a 01/17	Environmental noise level (indoors)	ISO 1996-2	L <sub>AeqT</sub> L <sub>Aeq</sub> 63 Hz,T L <sub>Aeq</sub> 125 Hz,T L <sub>Aeq</sub> 250 Hz,T L <sub>Aeq</sub> 500 Hz,T L <sub>Aeq</sub> 1 kHz,T L <sub>Aeq</sub> 2 kHz,T L <sub>Aeq</sub> 4 kHz, T L <sub>Aeq</sub> 8 kHz, T	z'-score



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18.	JSC Tyrimų laboratorija, Kretinga, Lithuania	10.07.17.	11/17	PIO ZIZ/a 01/17	Field measurement of airborne and impact sound insulation between rooms	EN ISO 16283-1 EN ISO 16283-2	apparent sound reduction index R' normalized impact sound level L' <sub>n</sub> (in the frequency range from 100 Hz to 5000 Hz by third octave frequency)	z'-score
19.	Institut za zaštitu, ekologiju i obrazovanje d.o.o., Tuzla, Bosnia and Herzegovina	28.08.17.	12/17	PIO BUK/a 01/17	Environmental noise level (indoors)	ISO 1996-2	L <sub>AeqT</sub> L <sub>Aeq 63 Hz,T</sub> L <sub>Aeq 125 Hz,T</sub> L <sub>Aeq 250 Hz,T</sub> L <sub>Aeq 500 Hz,T</sub> L <sub>Aeq 1 kHz,T</sub> L <sub>Aeq 2 kHz,T</sub> L <sub>Aeq 4 kHz, T</sub> L <sub>Aeq 8 kHz, T</sub>	z'-score
20.	LTM d.o.o., Oroslavje, Croatia	31.08.17.	13/17	PIO PPZ/p 01/17	Reaction to fire - non-combustibility test of mineral wool	EN ISO 1182	$\Delta T_f$ $\Delta T_c$ $\Delta T_s$ $t_f$	z-score z'-score z'-score z-score
21.	Rail System Testing GmbH, Hennigsdorf, Germany	11.09.17.	14/17	PIO PPZ/p 01/17	Reaction to fire - non-combustibility test of mineral wool	EN ISO 1182	$\Delta T_f$ $\Delta T_c$ $\Delta T_s$ $\Delta m$ $t_f$	z-score z'-score z'-score z-score z-score
22.	Forschungsinstitut für Anorganische Werkstoffe-Glass/Keramik GmbH, Hoehr-Grenzhausen, Germany	18.11.17.	15/17	PIO KER/fm 01/17	Water absorption of ceramic tiles	EN ISO 10545-3	boiling method vacuum method	z'-score z'-score



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23.	Fabrika cementa Lukavac, Lukavac, Bosnia and Herzegovina	08.12.17.	16/17	PIO CEM/fm 02/17	Physical and mechanical properties of cement	EN 196-1 EN 196-3 EN 196-6, a. 3 & 4	prism mass flexural strength after 2, 7 & 28 days compressive strength after 2, 7 & 28 days standard consistency water content setting times soundness fineness by sieving method (mesh sieve of 45 µm and 90 µm) fineness by Blaine method	z'-score z'-score z-score z-score z'-score z'-score
24.	IMN „TEST-BETON“ sh.p.k., Klokot, Kosovo	27.12.17.	17/17	PIO CEM/fm 02/17	Physical and mechanical properties of cement	EN 196-1	prism mass flexural strength after 2, 7 & 28 days compressive strength after 2, 7 & 28 days	z'-score z'-score z-score
25.	Industrial Research Institute, Beirut, Lebanon	30.05.18.	01/18	PIO KER/f 01/18	Linear thermal expansion of ceramic tiles	EN ISO 10545-8	determination of linear thermal expansion	z'-score



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26.	Belgian Building Research Institute, Bruxelles, Belgium	06.06.18.	02/18	PIO TIZ/fm 01/18	Physical and mechanical properties of thermal insulation in buildings	EN 822 EN 823  EN 824 (longitudinally and transversely) EN 825 EN 826  EN 1603, Methods A & C  EN 1604  EN 1605  EN 12089	determination of length and width determination of thickness  determination of squareness  determination of flatness determination of compression behaviour dimensional stability under laboratory conditions  dimensional stability under specified conditions  deformation under specified compressive load & temperature conditions determination of bending behaviour	z- score z- score  z- score z- score  z'- score (length) z- score (width) z'- score (length) z'- score (width) z- score (thickness) z'- score  z- score
27.	CEMEX Cement, k.s., Pardubice, Czech Republic	11.06.18.	03/18	PIO KAG/f 02/17	Physical properties of stone aggregate	EN 933-1	particle size distribution of fraction 0 ÷ 16 mm	z- score
28.	Rafinerija nafte Brod, Brod, Bosnia and Herzegovina	02.07.18.	04/18	PIO BIT/f 01/18	Physical properties of bitumen	EN 1426 EN 1427 EN 15326 + A1	determination of needle penetration determination of softening point measurement of density and specific gravity	z'- score z'- score z'- score



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29.	Lafarge Beočinska fabrika cementa d.o.o., Beočin, Serbia	03.07.18.	05/18	PIO CEM/h 01/18	Chemical properties of cement CEM I 52,5R	EN 196-2 a.4 EN 196-2 a.5	loss on ignition, chlorine ions content content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, SO <sub>3</sub> , Cr <sub>2</sub> O <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O and MnO	z'- score z'- score
30.	Doha Techical Laboratories, Doha, Qatar	03.07.18.	06/18	PIO CEM/h 01/18	Chemical properties of cement CEM I 52,5R	EN 196-2 a.4 EN 196-2 a.5	loss on ignition, chlorine ions content , SO <sub>3</sub> content, insoluble residue in HCl/Na <sub>2</sub> CO <sub>3</sub> content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, SO <sub>3</sub> , Cr <sub>2</sub> O <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O and MnO	z'- score z'- score
31.	Miphem d.o.o., Belgrade, Serbia	05.07.18.	07/18	PIO OTP/h 01/18	Solid waste (CRM) – Determination of elemental composition by X-ray fluorescence	EN 15309	content of Al, Cd, Cr, Fe, Pb, Mn, Ni and Zn	z-score
32.	Malta Competition and Consumer Affairs Authority – MCCA, Mosta, Malta	10.07.18.	08/18	PIO BIT/f 01/18	Physical properties of bitumen	EN 1426	determination of needle penetration	z'-score
33,	Cemex Hrvatska d.d., Odjeljenje osiguranja kvalitete, Kaštel Šućurac, Croatia	11.07.18.	09/18	PIO CEM/h 01/18	Chemical properties of cement CEM I 52,5R	EN 196-2 a.4 EN 196-2 a.5	loss on ignition, chlorine ions content ,CO <sub>2</sub> and SO <sub>3</sub> content, insoluble residue in HCl/Na <sub>2</sub> CO <sub>3</sub> content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, SO <sub>3</sub> , Na <sub>2</sub> O i K <sub>2</sub> O	z'-score z'-score





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34.	IMS Institute a.d., Centralna laboratorija za ispitivanje materijala, Belgrade, Serbia	11.07.18.	10/18	PIO OTP/h 01/18	Solid waste (CRM) – Determination of elemental composition by X-ray fluorescence	EN 15309	content of Al, Ba, Cd, Ca, Cr, Cu, Pb, Mg, Mn, Ni, K, Ag, Na and Zn	z-score
					Eluat based on ash - Determination of selected elements by inductively coupled plasma optical emission spectrometry (ICP-OES)	EN ISO 11885	content of Al, As, Ba, B, Ca, Li, Mg, K, Si, Na, Sr, S and V	z'-score
35.	National Environmental Agency, Tirane, Albania	25.07.18.	11/18	PIO BUK/a 01/18	Environmental noise level (indoors)	ISO 1996-1 ISO 1996-2	$L_{Aeq,T}$	z-score
36.	IGH d.o.o. Mostar, Centralni laboratorij, Mostar, Bosnia and Herzegovina	05.10.18.	12/18	PIO KAG/fm 01/18	Physical and mechanical properties of stone aggregate	EN 933-4 EN 1097-1	Shape index Resistance to wear (micro-Deval)	z'-score
37.	Institut za gradjevinarstvo „IG“, Banja Luka, Bosnia and Herzegovina	23.10.18.	13/18	PIO KAG/fm 01/18	Physical properties of stone aggregate	EN 933-4	Shape index	z'-score
38.	LTM d.o.o., Oroslavje, Croatia	05.11.18.	14/18	PIO PPZ/p 01/18	Reaction to fire - non-combustibility test of mineral wool	EN ISO 1182	$\Delta T_f$ $\Delta T_c$ $\Delta T_s$ $\Delta m$ $t_f$	z'-score



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39.	Fabrika cementa Lukavac, Lukavac, Bosnia and Herzegovina	20.11.18.	15/18	PIO CEM/fm 02/18	Physical and mechanical properties of cement	SRPS B.C8.023 EN 196-1 EN 196-3 EN 196-6, a. 3 & 4	bulk density prism mass flexural strength after 2, 7 & 28 days compressive strength after 2, 7 & 28 days standard consistency water content setting times soundness fineness by sieving method (mesh sieve of 45 µm and 90 µm) fineness by Blaine method	z'-score z-score z-score z'-score
40.	Entwicklungs- und Prüflabor Holztechnologie GmbH, Dresden, Germany	27.11.18.	16/18	PIO PIV/fhm 01/18	Chemical properties of wood-based panels	EN ISO 12460-5	Determination of formaldehyde release – Extraction method (called the perforator method)	z'-score
41.	ITM Sh.p.k., Tirana, Albania	24.12.18.	17/18	PIO CEM/fm 02/18	Mechanical properties of cement	EN 196-1	compressive strength after 7 & 28 days	z-score
42.	BP Institut d.o.o., Laktaši, Bosnia and Herzegovina	24.01.19.	01/19	PIO KAG/f 02/18	Physical properties of stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score
43.	UAB Tyrimų laboratorija, Kretinga, Lithuania	14.05.19.	02/19	PIO VPS/f 01.1/18	Physical properties of buildings	EN ISO 9972	Air permeability ( $q_{50}$ )	z'-score
44.	UAB "Pastatų diagnostika ir statyba", Klaipėda, Lithuania	21.05.19.	03/19.	PIO VPS/f 01.1/18	Physical properties of buildings	EN ISO 9972	Air permeability ( $q_{50}$ )	z'-score
45.	Timber Research and Development Institute, Prague, Czech Republic	21.05.19.	04/19	PIO VPS/f 01.1/18	Physical properties of buildings	EN ISO 9972	Air permeability ( $q_{50}$ )	z'-score
46.	Fushë Krujë Cement Factory Sh.p.k., Fushë Krujë, Albania	07.06.19.	05/19	PIO CEM/h 01/19	Chemical properties of cement CEM II/A-L 42,5R	EN 196-2 a.4 EN 196-10	loss on ignition, chlorine ions content content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO and SO <sub>3</sub> , free CaO, insoluble residue in HCl/KOH  Cr 6 <sup>+</sup> ions content	z'-score z'-score



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47.	Institut za preventivu d.o.o., „Ex“ laboratorija Novi Sad, Serbia	24.06.19.	06/19	PIO BUK/a 01/19	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>Afmax</sub> L <sub>Afmin</sub> L <sub>AF5</sub> L <sub>AF95</sub>	z-score
48.	JSC „Termas“, Siauliai, Lithuania	01.07.19.	07/19	PIO VPS/f 01.1/18	Physical properties of buildings	EN ISO 9972	Air permeability ( $q_{50}$ )	z'-score
49.	Institute of Architecture and Construction of Kaunas University of Technology, Kaunas, Lithuania	09.07.19.	08/19	PIO VPS/f 01.1/18	Physical properties of buildings	EN ISO 9972	Air permeability ( $q_{50}$ )	z'-score
50.	Institut za bezbednost i humanizaciju rada d.o.o., Novi Sad, Serbia	11.07.19.	09/19	PIO BUK/a 02/19	Occupational noise level	EN ISO 9612	A-weighted level of occupational noise exposure normalized to an 8-hour business day (L <sub>AEX,8h</sub> )	z'-score
51.	Cemex Hrvatska d.d., Odjeljenje osiguranja kvalitete, Kaštel Sućurac, Croatia	06.08.19.	10/19	PIO CEM/h 01/19	Chemical properties of cement CEM II/A-L 42,5R	EN 196-2 a.5	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, SO <sub>3</sub> , Na <sub>2</sub> O and K <sub>2</sub> O content	z'-score
						EN 196-10	Cr 6 <sup>+</sup> ions content	z'-score
52.	SC Sargeant Marine Bitumen SRL, Agigea, Romania	08.08.19.	11/19	PIO BIT/f 01/19	Physical properties of bitumen	EN 1426	determination of needle penetration	z-score
						EN 1427	determination of softening point	z-score
						EN 12593	determination of Fraass breaking point	z'-score



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					Subject of testing/product	Testing method	Properties/parameters	
53.	Igmtat d.d., Inštitut za gradbene materiale, Ljubljana - Polje, Slovenia	19.08.19.	12/19	PIO BIT/f 01/19	Physical properties of bitumen	EN 1426	determination of needle penetration	z-score
						EN 1427	determination of softening point	z-score
						EN 12593	determination of Fraass breaking point	z'-score
54.	Jv Eptisa Servicios De Ingenieria SI., Larisa, Greece	28.08.19.	13/19	PIO KAG/fm 01/19	Physical and mechanical properties of stone aggregate	EN 1097-6 a.8	Determination of particle density and water absorption	z'-score
55.	Institute of Roads and Bridges by Road Infrastructure Agency, Sofia, Bulgaria	06.11.19.	14/19	PIO KAG/fm 01/19	Physical and mechanical properties of stone aggregate	EN 1097-2	resistance to fragmentation "Los Angeles" method	z-score
56.	Brenner AMS s.r.o., Košice, Slovakia	03.12.19.	15/19	PIO BUK/a 03/19	Environmental noise level (indoors)	ISO 1996-1 ISO 1996-2	$L_{Aeq}$ $L_{Aeq}$ 63 Hz $L_{Aeq}$ 125 Hz $L_{Aeq}$ 250 Hz $L_{Aeq}$ 500 Hz $L_{Aeq}$ 1 kHz $L_{Aeq}$ 2 kHz $L_{Aeq}$ 4 kHz $L_{Aeq}$ 8 kHz	z'-score z'-score z-score z'-score z'-score z'-score z'-score z'-score
57.	Fakultet za prirodni i tehnički nauki, Univerzitet Goce Delčev, Štip, North	04.12.19.	16/19	PIO BUK/a 02/19	Occupational noise exposure	EN ISO 9612	$L_{AEX, 8h}$ (dB)	z'-score



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					Subject of testing/product	Testing method	Properties/parameters	
	Macedonia							
58.	Fushë Krujë Cement Factory Sh.p.k., Fushë Krujë, Albania	10.12.19.	17/19	PIO CEM/fm 02/19	Physical and mechanical properties of cement	EN 196-1 EN 196-6 a.3 EN 196-6 a.4	Compressive strength after 2, 7 and 28 days Prism mass fineness by sieving method (mesh sieve of 45 µm) fineness of grind – Blaine method	z-score z-score z'-score z-score
59.	Arhitektonsko građevinski Institut, Novi Sad, Serbia	11.12.19.	18/19	PIO CEM/fm 02/19	Physical and mechanical properties of cement	EN 196-1	Compressive strength after 2, 7 and 28 days Flexural strength after 2, 7 and 28 days Prism mass	z-score z-score z-score
60.	GIT Institut za građevinarstvo, građevinske materijale i nemetale Tuzla d.d., Bosnia and Herzegovina	12.11.19.	19/19	PIO CEM/fm 02/19	Physical and mechanical properties of cement	SRPS B.C8.023 EN 196-1 EN 196-3 EN 196-6 a.3 EN 196-6 a.4	Bulk density Compressive strength after 2, 7 and 28 days Flexural strength after 2, 7 and 28 days Prism mass Beginning and end of setting time Soundness Standard consistency water content	z'- score z-score z-score z-score z-score z-score z-score



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						EN 196-8	fineness by sieving method (mesh sieve of 45 µm and 90 µm)	z'-score
							fineness of grind – Blaine method	z-score
							Heat of hydration – solution method	z'-score
61.	NISI EOOD, ILSM, Sofia, Bulgaria	18.12.19.	20/19	PIO CEM/fm 02/19	Physical and mechanical properties of cement	EN 196-8	Heat of hydration – solution method	z'-score
62.	Ading a.d., Centralna laboratorija Ading, Skopje, North Macedonia	19.12.19.	21/19	PIO CEM/fm 02/19	Physical and mechanical properties of cement	EN 196-1	Compressive strength after 2, 7 and 28 days	z-score
							Flexural strength after 2, 7 and 28 days	z-score
							Prism mass	z-score
						EN 196-3	Beginning and end of setting time	z-score
							Soundness	z-score
							Standard consistency water content	z-score



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					Subject of testing/product	Testing method	Properties/parameters	
63.	Titan Cementarnica Usje a.d., Laboratorija za kontrola na kvalitet, Skopje, N. Macedonia	08.01.20.	01/20	PIO CEM/fm 02/19	Physical and mechanical properties of cement	EN 196-1 EN 196-3 EN 196-6 a.3 EN 196-6 a.4 EN 196-8	Compressive strength after 2, 7 and 28 days Flexural strength after 2, 7 and 28 days Prism mass Beginning and end of setting time Soundness Standard consistency water content fineness by sieving method (mesh sieve of 45 µm and 90 µm) fineness of grind – Blaine method Heat of hydration – solution method	z-score z-score z-score z-score z-score z'-score z-score z'-score
64.	ITM sh.p.k., Tirana, Albania	20.01.20.	02/20	PIO KAG/f 02/19	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 0 ÷ 8 mm	z-score
65.	Kaming d.d., Ljubešćica, Croatia	20.01.20.	03/20	PIO KAG/f 02/19	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 0 ÷ 8 mm	z-score



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66.	GIT Institut za građevinarstvo, građevinske materijale i nemetale Tuzla d.d., Bosnia and Herzegovina	11.02.20.	04/20	PIO TIZ/fm 01/19	Physical and mechanical properties of thermal insulation in buildings	EN 826	determination of compression behavior	z'-score
						EN 1603 Method A	dimensional stability under laboratory conditions	z'-score
67.	Institute of Architecture and Construction of Kaunas University of Technology, Kaunas, Lithuania	13.02.20.	05/20	PIO VIP/f 01/19	Physical properties of windows	EN 1026	air permeability	z'-score
						EN 1027	water tightness	z'-score
						EN 12211	resistance to wind load	z'-score
68.	ICECON S.A., ICECON Test, Bucharest, Romania	13.03.20.	06/20	PIO VIP/f 01/19	Physical properties of windows	EN 1026	air permeability	z'-score
						EN 1027	water tightness	z'-score
						EN 12211	resistance to wind load	z'-score
69.	IMN „TEST-BETON“ sh.p.k., Klokot, Kosovo	04.05.20.	07/20	PIO KAG/fm 01/20	Physical properties of natural stone aggregate	EN 933-4	determination of particle shape – shape index	z'-score
70.	Main Laboratory Sassuolo, Scandiano, Italy	13.05.20.	08/20	PIO KER/f 01/20	Physical properties of ceramic tiles	DIN 51130	determination of the anti-slip property – Ramp test	z'-score





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					Subject of testing/product	Testing method	Properties/parameters	
71.	IMS Institute, Belgrade, Serbia	28.05.20.	09/20	PIO VIP/f 01/19	Physical properties of windows	EN 1026 EN 1027 EN 12211	air permeability water tightness resistance to wind load	z'-score z'-score z'-score
72.	ICECON S.A., ICECON Test, Bucharest, Romania	18.06.20.	10/20	PIO TIZ/fm 01/19	Physical and mechanical properties of thermal insulation in buildings	EN 826 EN 1603 Method A	determination of compression behavior dimensional stability under laboratory conditions	z'-score z'-score
73.	Institut za rudarstvo i metalurgiju Bor – IRM, Bor, Serbia	02.09.20.	11/20	PIO BUK/a 01.1/20	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>Afmax</sub> L <sub>Afmin</sub> L <sub>AF5</sub> L <sub>AF95</sub>	z-score
74.	J/V "Eptisa Servicios de Ingenieria SL - Theodoros Papaioannou", Ampelonas Larissa, Greece	03.09.20.	12/20	PIO BIT/f 01.1/20	Physical properties of bitumen	EN 1427	determination of softening point	z'-score
75.	Zavod za javno zdravlje "Timok", Zaječar, Serbia	07.09.20.	13/20	PIO BUK/a 01.1/20	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>Afmax</sub> L <sub>Afmin</sub> L <sub>AF5</sub> L <sub>AF95</sub>	z-score



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					Subject of testing/product	Testing method	Properties/parameters	
76.	Building Laboratory Ratec – Ratec Ltd., Balsha, Bulgaria	17.09.20.	14/20	PIO BIT/f 01.1/20	Physical properties of bitumen	EN 1426	determination of needle penetration	z'-score
						EN 1427	determination of softening point	z'-score
77.	Centar za projektovanje i konsalting d.o.o., Banja Luka, Bosnia and Herzegovina	22.09.20.	15/20	PIO KAG/fm 01/20	Physical properties of natural stone aggregate	EN 933-4	determination of particle shape – shape index	z'-score
78.	Astel Projekt d.o.o., Belgrade, Serbia	07.10.20.	16/20	PIO BUK/a 02/20	Environmental noise level (indoors)	ISO 1996-1 ISO 1996-2	$L_{Aeq}$ $L_{Aeq\ 63\ Hz}$ $L_{Aeq\ 125\ Hz}$ $L_{Aeq\ 250\ Hz}$ $L_{Aeq\ 500\ Hz}$ $L_{Aeq\ 1\ kHz}$ $L_{Aeq\ 2\ kHz}$ $L_{Aeq\ 4\ kHz}$ $L_{Aeq\ 8\ kHz}$	z-score z'-score z-score z'-score z'-score z'-score z'-score z'-score z'-score



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					Subject of testing/product	Testing method	Properties/parameters	
79.	Cemex Hrvatska d.d., Odjeljenje osiguranja kvalitete, Kaštel Sućurac, Croatia	06.11.20.	17/20	PIO CEM/h 01/20	Chemical properties of cement CEM I 42,5R	EN 196-2 a.4  EN 196-2 a.5  EN 196-10	loss on ignition, insoluble residue in HCl/Na <sub>2</sub> CO <sub>3</sub> , CO <sub>2</sub> and Cl <sup>-</sup> content  content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, SO <sub>3</sub> , Na <sub>2</sub> O and K <sub>2</sub> O  content of Cr 6 <sup>+</sup> ions	z'-score (except for loss on ignition and content of SO <sub>3</sub> )  z'-score  z'-score
80.	B&A&M, družba za tehnologije, preizkušanje in raziskave gradbenih materialov d.o.o., Maribor, Republika Slovenia	10.11.20.	18/20	PIO BIT/f 01.1/20	Physical properties of bitumen	EN 1426  EN 1427	determination of needle penetration  determination of softening point	z'-score  z'-score
81.	Univerzitet u Nišu, Građevinsko-arhitektonski Fakultet, Laboratorija za građevinske materijale, Niš, Serbia	28.01.21.	01/21	PIO KAG/f 02/20	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score
82.	Celab d.o.o., Sarajevo, Bosnia and Herzegovina	28.01.21.	02/21	PIO KAG/f 02/20	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score
83.	ADING a.d., Centralna laboratorija Ading, Skopje, North Macedonia	01.02.21.	03/21	PIO KAG/f 02/20	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score



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					Subject of testing/product	Testing method	Properties/parameters	
84.	Centralna putna laboratorija d.o.o., Ogranak Beograd, Barajevo, Serbia	03.02.21.	04/21	PIO KAG/f 02/20	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score
85.	Centralna putna laboratorija d.o.o., Ogranak Čačak, Pakovraće, Serbia	03.02.21.	05/21	PIO KAG/f 02/20	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score
86.	Centralna putna laboratorija d.o.o., Veternik, Serbia	03.02.21.	06/21	PIO KAG/f 02/20	Physical properties of natural stone aggregate	EN 933-1	particle size distribution of fraction 4 ÷ 16 mm	z-score
87.	Itecons - Instituto de Investigação e Desenvolvimento Tecnológico para a Construção, Energia, Ambiente e Sustentabilidade (ITECONS), Coimbra, Portugal	03.03.21.	07/21	PIO TIZ/fm 01/20	Physical and mechanical properties of thermal insulation in buildings	EN 822 EN 823	determination of length and width  determination of thickness	z'-score  z'-score
88.	ITM sh.p.k., Tirana, Albania	29.03.21.	08/21	PIO CEM/fm 02/20	Physical and mechanical properties of cement CEM I 42,5R	EN 196-3	end of setting time  water content for standard consistency	z-score  z-score
89.	Fushë Krujë Cement Factory, Albania	29.03.21.	09/21	PIO CEM/fm 02/20	Physical and mechanical properties of cement CEM I 42,5R	EN 196-1 EN 196-3 EN 196-6 t.3	compressive strength after 2 and 28 days prism mass  beginning and end of setting time water content for standard consistency  fineness by sieving method (mesh sieve of 45 µm)	z-score z'-score  z-score  z-score z'-score



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						EN 196-6 t.4	fineness of grind – Blaine method	z'-score
90.	AG-UNS Arhitektonsko - Građevinski Institut d.o.o, Laboratorija za ispitivanje AGI, Novi Sad, Republika Srbija	31.03.21.	10/21	PIO CEM/fm 02/20	Physical and mechanical properties of cement CEM I 42,5R	EN 196-3	soundness beginning and end of setting time water content for standard consistency	z-score
91.	AG-UNS Arhitektonsko - Građevinski Institut d.o.o, Laboratorija za ispitivanje AGI, Belgrade, Republika Srbija	31.03.21	11/21	PIO CEM/fm 02/20	Physical and mechanical properties of cement CEM I 42,5R	EN 196-3	soundness beginning and end of setting time water content for standard consistency	z-score
92.	Cemex Hrvatska d.d., Odjeljenje osiguranja kvalitete, Kaštel Sućurac, Croatia	25.05.21.	12/21	PIO CEM/h 01/21	Chemical properties of cement CEM I 42,5R	EN 196-2 a.4 EN 196-2 a.5 EN 196-10	loss on ignition content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, MgO, ΣSO <sub>3</sub> , Na <sub>2</sub> O and K <sub>2</sub> O content of Cr 6 <sup>+</sup> ions	z score z'-score z'-score
93.	Materialprüfungsanstalt Universität Stuttgart (MPA Stuttgart - Otto-Graf-Institut (FMPA)), Stuttgart, Germany	28.05.21.	13/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5	determination of resistance to fragmentation	z'-score
94.	ADING a.d., Centralna laboratorija, Skopje, North Macedonia	02.06.21.	14/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-6 a.8	determination of particle density determination of water absorption	z'-score
95.	Institut za ispitivanje materijala (IMS) a.d., Laboratorija za puteve i geotehniku, Belgrade, Serbia	08.06.21.	15/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone	EN 1097-6 a.8	determination of particle density determination of water absorption	z'-score



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					aggregate			
96.	Eurofins Analyses des Materiaux et Combustibles France, Saverne, France	08.06.21.	16/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of water absorption	z'-score z'-score
97.	ABG Test d.o.o., Podgorica, Montenegro	08.06.21.	17/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of particle density determination of water absorption	z'-score z'-score
98.	Laboratorijski putni centar d.s.d., Predstavništvo u Crnoj Gori, Podgorica, Montenegro	08.06.21.	18/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of particle density	z'-score z'-score
99.	IGMAT d.d., Oddelek za geomehaniko, Ljubljana Polje, Slovenia	08.06.21.	19/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of particle density determination of water absorption	z'-score z'-score
100.	Institut za raziskave materialov in aplikacije (IRMA) d.o.o., Preskusni laboratorij, Trzin, Slovenia	08.06.21.	20/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of particle density determination of water absorption	z'-score z'-score
101.	Institut za ispitivanje materijala (IMS) a.d., Centralna laboratorija za ispitivanje materijala, Belgrade, Serbia	08.06.21.	21/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of particle density determination of water absorption	z'-score z'-score



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102.	CSS d.o.o., Centralni laboratorij, Odjel za ispitivanje, Zagreb, Croatia	08.06.21.	22/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5	determination of resistance to fragmentation	z'-score
103.	Gradjevinsko-arhitektonski fakultet u Nišu, Centar za građevinarstvo i arhitekturu, Laboratorija za građevinske materijale, Niš, Serbia	08.06.21.	23/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5	determination of resistance to fragmentation	z'-score
104.	J/V "Eptisa Servicios de Ingenieria SL - Theodoros Papaioannou", Ampelonas Larisa, Greece	08.06.21.	24/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5	determination of resistance to fragmentation	z'-score
105.	Ramtech d.o.o., Centralni laboratorij asfaltne tehnologije, Čista Mlaka, Croatia	08.06.21.	25/21	PIO KAG/fm 01/21	Physical and mechanical properties of stone aggregate	EN 1097-2 a.5 EN 1097-6 a.8	determination of resistance to fragmentation determination of particle density determination of water absorption	z'-score z'-score
106.	Institut za javno zdravlje Vojvodine, Novi Sad, Serbia	14.06.21	26/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub> L <sub>AF90</sub> L <sub>AF95</sub>	z-score
107.	Zavod za javno zdravlje Vranje, Vranje, Serbia	14.06.21	27/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub> L <sub>AF90</sub> L <sub>AF95</sub>	z-score
108.	Zavod za javno zdravlje Subotica, Subotica, Serbia	14.06.21	28/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub>	z-score



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								$L_{AF90}$ $L_{AF95}$	
109.	Institut za javno zdravlje Crne Gore, Podgorica, Montenegro	14.06.21	29/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2		$L_{Aeq}$ $L_{AF5}$ $L_{A10}$ $L_{AF50}$ $L_{AF90}$ $L_{AF95}$	z-score
110.	JKP Beogradske elektrane, Belgrade, Serbia	14.06.21	30/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2		$L_{Aeq}$ $L_{AF5}$ $L_{A10}$ $L_{AF50}$ $L_{AF90}$ $L_{AF95}$	z-score
111.	Nacionalni laboratorij za zdravlje, okolje in hrano, Maribor, Slovenia	14.06.21	31/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2		$L_{Aeq}$ $L_{AF5}$ $L_{A10}$ $L_{AF50}$ $L_{AF90}$ $L_{AF95}$	z-score
112.	Centar za ekotoksikološka ispitivanja, Podgorica, Montenegro	14.06.21	32/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2		$L_{Aeq}$ $L_{AF5}$ $L_{A10}$ $L_{AF50}$ $L_{AF90}$ $L_{AF95}$	z-score
113.	Anahem d.o.o., Belgrade, Serbia	14.06.21	33/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2		$L_{Aeq}$ $L_{AF5}$ $L_{A10}$ $L_{AF50}$ $L_{AF90}$ $L_{AF95}$	z-score
114.	Institut Alfapreving d.o.o., Belgrade,	14.06.21	34/21	PIO BUK/a 02/21		ISO 1996-1		$L_{Aeq}$	





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	Serbia				Environmental noise level (outdoors)	ISO 1996-2	L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub> L <sub>AF90</sub> L <sub>AF95</sub>	
115.	Astel Projekt d.o.o., Belgrade, Serbia	14.06.21	35/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub> L <sub>AF90</sub> L <sub>AF95</sub>	z-score
116.	Miphem d.o.o., Belgrade, Serbia	14.06.21	36/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub> L <sub>AF90</sub> L <sub>AF95</sub>	z-score
117.	Saobraćajni Institut CIP d.o.o., Belgrade, Serbia	14.06.21	37/21	PIO BUK/a 02/21	Environmental noise level (outdoors)	ISO 1996-1 ISO 1996-2	L <sub>Aeq</sub> L <sub>AF5</sub> L <sub>A10</sub> L <sub>AF50</sub> L <sub>AF90</sub> L <sub>AF95</sub>	z-score
118.	Fushe Kruje, Albania	18.06.21.	38/21	PIO CEM/h 01/21	Chemical properties of cement CEM I 42,5R	EN 196-2 a.4  EN 196-2 a.5  EN 196-10	loss on ignition  content of SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, ΣSO <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O and MnO  content of Cr 6 <sup>+</sup> ions	z score  z'-score  z'-score



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