

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 0013 Accredited to ISO/IEC 17025:2017	Lucideon Limited	
	Issue No: 091 Issue date: 28 April 2023	
	Queens Road Penkhull Stoke-on-Trent Staffordshire ST4 7LQ	Contact: Emma Tang Tel: +44 (0)1782 764214 Fax: +44 (0)1782 412331 E-Mail: Emma.Tang@lucideon.com Website: www.lucideon.com
Testing performed by the Organisation at the locations specified below		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
Address Lucideon Limited Queens Road Penkhull Stoke-on-Trent Staffordshire ST4 7LQ Local contact Emma Tang Tel: +44 (0)1782 764214 Fax: +44 (0)1782-412331 EMail: Emma.Tang@lucideon.com	Chemical, geological, physical and mechanical testing of construction and building materials, refractories and ceramics, recycled materials, tableware and environmental samples and, mineral identification by SEM and colour measurement.	A

Site activities performed away from the locations listed above:

Location details	Activity	Location code
All site locations suitable for the activities listed	Slip resistance of paved surfaces	S



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MASONRY UNITS, PRECAST CONCRETE MASONRY UNITS	Determination of compressive strength	BS EN 772-1:2011+A1:2015	A
PRECAST CONCRETE MASONRY UNITS	Determination of bending tensile strength of aggregate concrete masonry units	BS EN 772-6:2001	A
MASONRY UNITS (Damp proof units)	Determination of water absorption of clay masonry damp proof course units by boiling in water	BS EN 772-7:1998	A
MASONRY UNITS	Determination of volume and percentage of voids and net volume of clay and calcium silicate masonry units by sand filling	BS EN 772-9:1998	A
MASONRY UNITS, PRECAST CONCRETE MASONRY UNITS	Determination of water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units	BS EN 772-11:2011	A
MASONRY UNITS, PRECAST CONCRETE MASONRY UNITS	Determination of net and gross dry density of masonry units (except for natural stone)	BS EN 772-13:2000	A
MASONRY UNITS	Determination of moisture movement of aggregate concrete and manufactured stone masonry units	BS EN 772-14:2002	A
MASONRY UNITS, PRECAST CONCRETE MASONRY UNITS	Determination of dimensions	BS EN 772-16:2011	A
PRECAST CONCRETE MASONRY UNITS	Flatness of faces	BS EN 772-20:2000	A



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MASONRY UNITS	Determination of water absorption of clay and calcium silicate masonry units by cold water absorption	BS EN 772-21: 2011	A
MASONRY UNITS	Determination of freeze/thaw resistance of clay masonry units	BS EN 772-22:2018	A
MASONRY - including natural stone	Determination of compressive strength	BS EN 1052-1:1999	A
	Determination of initial shear strength	BS EN 1052-3:2002	A
	Determination of flexural strength	BS EN 1052-2:2016	A
CONCRETE ROOFING TILES AND FITTINGS FOR ROOF COVERING AND WALL CLADDING	Transverse strength	BS EN 491:2011 Clause 5.6	A
CLAY ROOFING TILES and FITTINGS	Determination of physical characteristics. Test for frost resistance	BS EN 539-2:2013	A
DAMP-PROOF COURSE MATERIALS	Determination of shear strength including damp proof course	BS EN 1052-4: 2000	A
	Methods of test for flexural bond strength and short term shear strength	DD86:Part 1:1983 (withdrawn)	A
Physical and mechanical properties of wood (small clear wood specimens)	Determination of moisture content for physical and mechanical tests	ISO 13061-1:2014	A
	Determination of density for physical and mechanical tests	ISO 13061-2:2014	A
CERAMIC FLOOR and WALL TILES	Dimensions and surface quality	BS EN ISO 10545-2:2018 SASO-ISO 10545-2:2018	A
	Water absorption	BS EN ISO 10545-3:2018	A



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ANCILLARY COMPONENTS FOR MASONRY	Determination of bond strength of prefabricated bed joint reinforcement in mortar joints	BS EN 846-2:2000 BS EN 845-3:2013 +A1:2016	A
- horizontal restraint straps - masonry specimens - timber specimens - vertical restraint straps - timber wall plate or truss - masonry specimens	Determination of load capacity and load-deflection characteristics of straps	BS EN 846-4:2002 BS EN 845-1:2013 +A1:2016	A
Liquid applied roof waterproofing kits	Determination of the Resistance to Wind Loads of Partially Bonded Waterproofing Membranes	EOTA Technical Note TR005	A
Flexible sheets for waterproofing	Determination of the resistance to wind load of mechanically fastened flexible sheets for roof waterproofing	BS EN 16002:2018	A
WALL TIES	Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (couplet test)	BS EN 846-5:2012 BS EN 845-1:2013 +A1:2016	A
	Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (single end test)	BS EN 846-6:2012 BS EN 845-1:2013 +A1:2016	A
SHEAR TIES AND SLIP TIES	Determination of shear load capacity and load displacement characteristics of shear ties and slip ties (couplet test for mortar joint connections)	BS EN 846-7:2012 BS EN 845-1:2013 +A1:2016	A
STRUCTURAL FIXINGS	Determination of load capacity and load-deflection characteristics of joist hangers	BS EN 846:8:2000 BS EN 845-1:2013 +A1:2016	A



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STRUCTURAL FIXINGS	Load capacity of metal suspension and connecting components for Suspended Ceilings – bending test and static test	BS EN 13964:2014	A
LINTELS	Determination of flexural resistance and shear resistance of lintels	BS EN 846-9:2016 BS EN 845-2:2013 +A1:2016	A
THREE-DIMENSIONAL NAILING PLATES	Strength and deformation characteristics	ETAG 015:2012 BS EN 26891:1991 and EOTA Technical Report TR 016:February 2002	A
WALL PANELS - timber frame	Racking strength and stiffness	BS EN 594:2011	A
EXTERNAL THERMAL INSULATION COMPOSITE SYSTEMS with rendering (ETICS) and components	Water tightness of the ETICS:Hygrothermal behaviour	EAD 040083-00-0404:2019 2.2.6	A
	Water tightness of the ETICS:Freeze-thaw behaviour	EAD 040083-00-0404:2019 2.2.7	A
	Water absorption of the base coat and the rendering system	EAD 040083-00-0404:2019 2.2.5.1	A
	Impact resistance	EAD 040083-00-0404:2019 2.2.8	A
	Water vapour permeability	EAD 040083-00-0404:2019 2.2.9.1 BS EN ISO 7783:2018	A
	Bond strength	EAD 040083-00-0404:2019 2.2.11.1 EAD 040083-00-0404:2019 2.2.11.2 EAD 040083-00-0404:2019 2.2.11.3	A
	Bond strength after ageing	EAD 040083-00-0404:2019 2.2.20.1 EAD 040083-00-0404:2019 2.2.20.2	A
	Pull through test of fixings	EAD 040083-00-0404:2019 2.2.13.1	A
	Tensile test perpendicular to the faces	EAD 040083-00-0404:2019 2.2.14.1 EAD 040083-00-0404:2019 2.2.14.2 BS EN 1607:1997	A



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ADHESIVES for use with ceramic tiles and mosaics	Open time	BS EN 12004-2:2017	A
	Slip	BS EN 12004-2:2017	A
	Tensile adhesion strength	BS EN 12004-2:2017	A
	Shear adhesion strength	BS EN 12004-2:2017	A
	Transverse deformation	BS EN 12004-2:2017	A
GROUTS - for use with ceramic tiles	Flexural strength	BS EN 12808-3:2008	A
	Abrasion	BS EN 12808-2:2008	A
	Shrinkage	BS EN 12808-4:2009	A
	Water absorption	BS EN 12808-5:2008	A
CERAMIC FLOOR and WALL TILES	Chemical resistance	BS EN ISO 10545-13:2016	A
	Resistance to stains	BS EN ISO 10545-14:2015	A
	Modulus of rupture and breaking strength	BS EN ISO 10545-4:2019	A
	Resistance to thermal shock	BS EN ISO 10545-9:2013	A
	Frost resistance	BS EN ISO 10545-12:1997	A
SURFACES of all types for use by pedestrian or vehicular traffic	Slip resistance by the pendulum friction test	UK Slip Resistance Group Guidelines Issue 5:2016, and all technically equivalent standards	A, S
SURFACES of all types for use by pedestrian traffic	Slip resistance by the ramp test	BS EN 16165:2021, and all technically equivalent standards	A
NATURAL STONE including modular tiles, roofing & cladding and masonry units	Determination of slip resistance by means of the pendulum tester - modular	BS EN 14231:2003	A, S
	Unpolished slip resistance of external paving slabs	BS EN 1341:2012	A, S



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CERAMIC FLOOR and WALL TILES, FLOORS and FLOOR COVERINGS, CLAY PAVERS AND PAVED SURFACES	Slip resistance - pendulum method	BS 7976-2:2002+A1:2013	A, S
CERAMIC FLOOR and WALL TILES - glazed tiles	Resistance to surface abrasion	BS EN ISO 10545-7:1999	A
	Crazing resistance	BS EN ISO 10545-11:1996	A
FLOORS and FLOOR COVERINGS	Determination of anti-slip characteristics – Shod ramp test	BS EN 16165:2021	A
	Determination of anti-slip characteristics - Barefoot ramp test	BS EN 16165:2021	A
	Slip resistance	BS EN 13845:2017 BS 4592-0:2006+A1:2012	A, S
CLAY PAVERS	Skid resistance value	BS 7976-2:2002+A1:2013	A, S
	Unpolished slip/skid resistance	BS EN 1344:2013	A, S
	Abrasion	BS EN 1344:2013	A
REFRACTORY MATERIALS	Determination of bulk density of granular materials by the mercury method with vacuum	BS EN 993-17:1999	A
	Thermal expansion from ambient to 1600 °C	BS 1902-5.14:1992	A
	Thermal expansion	BS 1902-5.3:1990	A
	Thermal conductivity - by panel/calorimeter method	BS 1902-5.5:1991	A
CLAYS, POWDERS, BUILDING SANDS and other granular materials	Particle size distribution - dry sieving	BS 1796-1:1989 ISO 2591-1:1988	A
	BET, specific surface area and BJH, pore volume and pore area	Documented In-House Method PT 50 BS ISO 9277:2010	A



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REFRACTORY MATERIALS - bricks, blocks and dense shaped products	Cold crushing strength	ASTM C133 - 97(08) e1	A
	Cold crushing strength	BS EN 993-5:2018	A
	Permanent change in dimensions on heating	BS EN 993-10:2020 ASTM C113 - 14	A
	Bulk density, true porosity and apparent porosity	BS EN 993-1:2018	A
	Refractoriness-under-load	BS EN ISO 1893:2008	A
	Creep in compression	BS EN 993-9:1997	A
	Permanent change in dimensions on heating	BS EN 1094-6:2000	A
	Bulk density by mass and dimensions	ASTM C134 -95 (10)	A
REFRACTORY MATERIALS, ADVANCED CERAMICS and COMPOSITES	Strength and displacement - by 3 and 4 point loading method at temperatures from ambient to 1875K	Documented In-House Methods R102:2014 and R101:2014	A
	Flexural strength of advanced ceramics ambient temperature	ASTM C1161 - 2018	A
REFRACTORY MATERIALS and PRODUCTS	Stress-strain-time relation - at temperatures from ambient to 1875K	Documented In-House Method R100:2015	A
	Determination of coating adhesion strength using polymeric adhesives and smooth tensile specimens	BS ISO 13779-4:2018 and PT 68 ASTM F1147-05 (2017) and PT 69	A
End of Section			



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CHEMICAL TESTING INORGANIC NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slag, ores, dusts, solid recovered fuel (SRF) and oxides	Determination of trace elements	Documented In-House Method C12 using ICP optical emission spectrometry	A
	Determination of trace elements	Documented In-House Method C253. Analysis of trace elements in siliceous minerals by microwave digestion	A
	Elemental analysis and speciation by XRF	Documented In-House Method C201 using X-ray fluorescence spectroscopy	A
	Determination of carbonate	Documented In-House Method C44	A
	Determination of total carbon and total sulphur	Documented In-House Method C45 using a LECO induction furnace	A
	Determination of boric oxide, ruthenia and lithia in glazes, glasses and associated materials	Documented In-House Methods C15 & C22 using fusion/ICP and B2O3 by BS EN ISO 21078-1:2008 using fusion ICP	A



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GEOLOGICAL MATERIALS, ceramic powders and cements	Carbonate and organic carbon	Documented In-House Method C248 by loss on ignition and LECO induction furnace	A
REFRACTORY MATERIALS	Analysis by X-ray fluorescence all refractory types	BS EN ISO 12677:2011	A
REFRACTORY MATERIALS - silicon carbide	Analysis by X-ray fluorescence and loss on ignition	BS EN ISO 12677:2011	A
	Total carbon	BS EN ISO 21068-2:2008: Section 5.3.5	A
HYDROXYAPATITE and CALCIUM PHOSPHATE materials	Trace element analysis (Hg, Cd, As, Pb)	C250 using ICP	A
End of Section			



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CHEMICAL TESTING OF CONSTRUCTION MATERIALS			
CLAY BRICKS	Soluble Salts	Documented In-House Method C254 BS EN 772-5:2016	A
CEMENT	Loss on ignition	Documented In-House Method C201	A
	Elemental analysis	Documented In-House Method C201 using X-ray fluorescence spectroscopy	A
CERAMIC FLOOR and WALL TILES - glazed tiles	Lead and cadmium release by glazed tiles	BS EN ISO:2021	A
CHEMICAL TESTING OF TABLEWARE & TILES			
CERAMIC WARE, GLASSWARE, GLASS CERAMIC WARE and VITREOUS ENAMEL WARE	Lead and cadmium release	BS 6748:1986 +A1:2011 Council Directive 84/500/EEC 15 Oct 1984 amended by 2005/31/EC	A
	Lead and cadmium release from ceramic ware	BS EN 1388-1:1996	A
	Lead and cadmium release from silicate surfaces other than ceramic ware	BS EN 1388-2:1996	A
	Lead and cadmium release	ISO 6486-1:2019	A
	Metal release	Documented In-House Method C101 and methods listed in BCRL - "Toxic Metal Release from Ceramic Tableware" ASTM C738-94(reapproved 2020) BS EN 1388-1:1996 BS EN 1388-2:1996 ISO 6486-1: 2019 BS 6748: 1986+A1: 2011 ISO 7086-1: 2019 84/500/EEC	A



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	Metal release	Documented In-House Method C110 ASTM 927-80 (the lip rim method not listed in C101) BS EN 1388-2:1996 EU Directive 84/500/EEC ISO 6486-1:2019 ISO 7086-1:2019	
	Metal release from glazed pottery	DIHMC102 American FDA ASTM C738-94 (reapproved 2020) ASTM C927-80 (Reapproved 2019)	A



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CHEMICAL TESTING ORGANIC & ENVIRONMENTAL			
GASES AND AIR, LAND-FILL, DIGESTER and RELATED GASES Bulk components:	Methane Ethane Ethene Acetylene Helium Hydrogen Oxygen Nitrogen Carbon Dioxide Propane isobutene n-butane	Documented In-House Method C72	A
	Carbon Monoxide	Documented In-House Method C227 by GC-FID	A
	Hydrogen sulphide	Documented In-House Method C74 using gas chromatography	A
	Volatile Organic Compounds:- Hexamethyldisiloxane Hexamethylcyclotrisiloxane Octamethyltrisiloxane Octamethylcyclotetrasiloxane Decamethyltetrasiloxane Decamethylcyclopentasiloxane Dodecamethylcyclohexasiloxane Dodecamethylpentasiloxane	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C261 using GC-MS	A
	2-methyl butane Pentane Hexane Heptane Octane Nonane Decane	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS	A



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GASES AND AIR, LAND-FILL, DIGESTER and RELATED GASES Bulk components: (cont'd)	Dodecane Cumene (iso Propyl Benzene) Ethyl Acetate Iso Propyl Acetate Propyl Acetate sec-Butyl Acetate Volatile Organic Compounds: (cont'd) 3-Carene tert-butyl Acetate Amyl Acetate n-Butyl Acetate Limonene alpha-Pinene beta-Pinene Benzyl acetate Methyl butyrate 1,3-butadiene 1-pentene Furan Ethyl buyrate 1-pentanethiol 1-Propanethiol 1-Butanethiol Benzene Toluene Ethylbenzene m/p-Xylene 2-Butoxy ethanol o-Xylene Vinyl Chloride Chloroethane Freon 11 Freon 113 Freon 12 Freon 21 Freon 22 1,1-dichloroethylene Dimethyl sulphide Dichloromethane Carbon Disulphide Trans-1,2-dichloroethylene Cis-1,2-dichloroethylene 1,1-dichloroethane Ethyl methyl sulphide Chloroform	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) DIHM C51 using GC-MS	A



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GASES AND AIR, LAND-FILL, DIGESTER and RELATED GASES Bulk components: (cont'd)	Bromodichloromethane Dibromochloromethane Cis-1,3-dichloropropene Dimethyl disulphide 1,1,1-trichloroethane 1,1,2-trichloroethane 1,2-dichloroethane Carbon Tetrachloride Diethyl sulphide Diethyl disulphide Trichloroethylene Tetrachloroethylene Chlorobenzene Bromoform 1,2-dichlorobenzene 1,3-dichlorobenzene	By thermal desorption from diffusive or pumped sorbent tubes (GC-MS method) Documented In-House Method C51 using GC-MS	A
RECOVERED SOLID FUELS	Determination of biomass content	Documented In-House Method C235 BS EN 21644:2021	A
	Calorific value	Documented In-House Method PT 49 based on BS EN 15400:2011 using an isoperibol bomb calorimeter BS EN 21654:2021	A
MICROSCOPY	Grain size	ISO 133831-1:2016 DIHM M3 BS ISO 13356:2015:Clause 4.3	A
NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides	Mineral phase identification and microstructure characterisation	Documented In-House Methods M24 & M25 by optical and electron microscopy and energy dispersive microanalysis	A
	Mineral phase identification and microstructure characterisation	Documented In-House Method M7 by X-ray diffraction	A
	Quantitative determination of phases	Documented In-House Method M9, and M30, by X-ray diffraction	A



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HYDROXYAPATITE and CALCIUM PHOSPHATE materials	Relative crystallinity and mineral composition	ISO 13779-3:2008 +A1 2021	A
COLOUR MEASUREMENT CLAYS, POWDERS and GRANULAR MATERIALS	Colour measurement	Documented In-House Methods WW21:2017	A
NON-METALLIC MATERIALS and PRODUCTS - ceramics, glasses, minerals, slags, ores, dusts and oxides	Colour measurement	Documented In-House Methods WW21:2017 and WW22:2017 BS 8493:2008 + A1:2010	A
OPAQUE MATERIALS - near-white	Indexes of whiteness and yellowness	ASTM E313-10	A
PLASTICS	Colour measurement	Documented In-House Methods WW21:2017 and WW22:2017	A
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Accreditation for the purpose of UK Approved Body Activity in accordance with UKCA Requirements and UKAS Publication GEN 5

Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020.	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3): - Tension straps (in walls and partitions), Joist hangers (in walls and partitions), Ties (in walls and partitions).	EN 845-1:2013 + A1:2016
	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3) : - Bed joint reinforcement (in walls and partitions).	EN 845-3:2013 + A1:2016
	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3): - Lintels (in walls and partitions).	EN 845-2:2013 + A1:2016
	Annex V - Testing Laboratory (AVCP) System 3	97/808/EC Floorings (2/2) : - Rigid flooring products (a) Components: paving units, tiles, mosaics, parquet, decking of mesh or sheet, floor gratings, rigid laminated floorings, wood based products (for internal uses including enclosed public transport premises).	EN 14411:2012
	Annex V - Testing Laboratory (AVCP) System 3	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (2/6) : - Roofing tiles, slates, stones and shingles (for uses subject to reaction to fire regulations).	EN 1304:2005



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Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020. (cont'd)	Annex V - Testing Laboratory (AVCP) System 3	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (3/6) : - Roofing tiles, slates, stones and shingles (for uses subject to external fire performance regulations).	EN 1304:2005
	Annex V - Testing Laboratory (AVCP) System 3	98/437/EC Internal and external wall and ceiling finishes (2/5):- Suspended ceilings (kits) (as internal or external finish in ceilings subject to safety in use requirements).	EN 13964:2014
	Annex V - Testing Laboratory (AVCP) System 3	99/470/EC Construction adhesives (1/2) : - Adhesives for tiles (for internal and external uses in buildings and other civil engineering works).	EN 12004:2007+A1:2012



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Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Lucideon Limited
Issue No: 091 Issue date: 28 April 2023

Testing performed by the Organisation at the locations specified

Accreditation for the purpose of Notified Body Activity relating to the Northern Ireland market (CE + UKNI) taking into account EA-2/17

Directive / Regulation	Conformity Assessment procedure/ Module/article	Category of products or individual products	Essential requirements: Product specification / Properties/Standards
Construction Products Regulation 2011 (retained EU law EUR 305/2011) as amended by the Construction Products (Amendment etc.) (EU Exit) Regulations 2019 and the Construction Products (Amendment etc.) (EU Exit) Regulations 2020	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3): - Tension straps (in walls and partitions), Joist hangers (in walls and partitions), Ties (in walls and partitions).	EN 845-1:2013 + A1:2016
	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3) : - Bed joint reinforcement (in walls and partitions).	EN 845-3:2013 + A1:2016
	Annex V - Testing Laboratory (AVCP) System 3	97/740/EC Masonry and related products (2/3): - Lintels (in walls and partitions).	EN 845-2:2013 + A1:2016
	Annex V - Testing Laboratory (AVCP) System 3	97/808/EC Floorings (2/2) : - Rigid flooring products (a) Components: paving units, tiles, mosaics, parquet, decking of mesh or sheet, floor gratings, rigid laminated floorings, wood based products (for internal uses including enclosed public transport premises).	EN 14411:2012
	Annex V - Testing Laboratory (AVCP) System 3	98/436/EC Roof coverings, rooflights, roof windows and ancillary products (2/6) : - Roofing tiles, slates, stones and shingles (for uses subject to reaction to fire regulations).	EN 1304:2005



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