Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SLATE and STONE for discontinuous roofing and external cladding (cont'd)	Sulfur dioxide exposure for slates with a carbonate content less than or equal to 20 % (mass percentage)	BS EN 12326-2:2011	A
	Thermal cycle	BS EN 12326-2:2011	A
SOILS for civil engineering purposes	Moisture content - oven drying method	BS 1377-2:1990	A
	Liquid limit - cone penetrometer	BS 1377-2:1990	A
	Liquid limit - cone penetrometer - one point	BS 1377-2:1990	A
	Plastic limit	BS 1377-2:1990	A
	Plasticity index	BS 1377-2:1990	A
	Particle density - gas jar	BS 1377-2:2022	A
	Particle density - small pyknometer	BS 1377-2:1990	A
	Particle size distribution - wet sieving	BS 1377-2:1990	A
	Particle size distribution - dry sieving	BS 1377-2:1990	A
	Particle size distribution - sedimentation - pipette method	BS 1377-2:1990	A
	Organic matter content	BS 1377-3:2018 + A1:2021	A
	Sulphate content of soil and ground water - gravimetric method	BS 1377-3:2018 + A1:2021	A
	pH value	BS 1377-3:2018 + A1:2021	A
	Resistivity: open container method	BS 1377-3:2018 + A1:2021	A
	Redox potential	BS 1377-3:2018 + A1:2021	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Dry density/moisture content relationship (2.5 kg rammer)	BS 1377-2:2022	A
	Dry density/moisture content relationship (4.5 kg rammer)	BS 1377-2:2022	A
	Dry density/moisture content relationship (vibrating hammer)	BS 1377-2:2022	A
	Moisture condition value (MCV)	BS 1377-2:2022	A
	MCV - natural moisture content	BS 1377-2:2022	A, B
	MCV/moisture content relation	BS 1377-2:2022	A
	California Bearing Ratio (CBR)	BS 1377-2:2022	A
	Dispersibility – pinhole test	BS 1377-2:2022	A
	Permeability in a triaxial cell	BS 1377-6:1990	A
	Undrained shear strength - triaxial compression without measurement of pore pressure	BS 1377-7:1990	A
	Undrained shear strength - triaxial compression with multistage loading and without measurement of pore pressure	BS 1377-7:1990	A
	Shear strength by direct shear (small shearbox apparatus)	BS 1377-7:1990	A
	Shear strength by direct shear (large shearbox apparatus)	BS 1377-7:1990	A
	In-situ density - sand replacement method (small pouring cylinder)	BS 1377-9:1990	B
	In-situ density - sand replacement method (large pouring cylinder)	BS 1377-9:1990	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	In-situ density - core cutter method	BS 1377-9:1990	B
	In-situ bulk density - nuclear method - comparative tests	BS 1377-9:1990	B
	In-situ bulk density - nuclear method - absolute tests	BS 1377-9:1990	B
	In-situ bulk density - nuclear method - compliance tests	BS 1377-9:1990	B
	In-situ moisture density - nuclear method - comparative tests	BS 1377-9:1990	B
	In-situ moisture density - nuclear method - absolute tests	BS 1377-9:1990	B
	In-situ moisture density - nuclear method - compliance tests	BS 1377-9:1990	B
	Vertical deformation and strength characteristics by the incremental plate loading test	BS 1377-9:1990	B
	Carbonate content - volumetric method	BS EN ISO 10693:2014	A
	Calculation of nominal CBR value using the plate bearing test	DMRB, IAN 73/06 Design of Pavement Foundations, Rev 1: 2009	B
	Determination of effective angle of internal friction and effective cohesion of earthworks materials (using 300 mm shearbox)	Specification for Highway Works, February 2016, Clause 636	A
	Uniformity coefficient	Specification for Highway Works, February 2016, Table 6/1, Footnote 5	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
SOILS for civil engineering purposes (cont'd)	Determination of the permeability of clayey soils in a triaxial cell using the accelerated permeability test	Environment Agency R & D Technical Report P1-398/TR/2 : January 2003	A
	Horizontal permeability of road drainage layers using the permeability box	CD 225, Design for new pavement foundations, Revision 1, April 2020, Appendix C	A
	Determination of the methylene blue value of bentonite-containing soils	Documented In-House Method No.: TMP 020	A
	Calculation of nominal CBR value using the a dynamic cone penetrometer test (DCP)	Documented In-House Method No.: MS-G-ST-38 DMRB, CS229 Data for Pavement Assessment, Rev 0: 2020	B
	Determination of Thermal Conductivity by Thermal Needle Probe Procedure	ASTM D5334-22A	A
Special backfill material for cable installations	Determination of dry relative density by soil compaction measurement	ENA TS 97-1 2016 Annex A	A
	Determination of cohesion	ENA TS 97-1 2016 Annex C	A
	Determination of dry relative density by void ratio measurement	ENA TS 97-1 2016 Annex F	A
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil	Water content	BS EN ISO 17892-1:2014	A
	Determination of bulk density - linear measurement method	BS EN ISO 17892-2:2014	A
	Particle density - fluid pycnometer method	BS EN ISO 17892-3:2015	A
	Particle size distribution - sieving method	BS EN ISO 17892-4:2016	A
	Particle size distribution - pipette method	BS EN ISO 17892-4:2016	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GEOTECHNICAL INVESTIGATION and TESTING - Laboratory testing of soil (cont'd)	Unconsolidated undrained triaxial	BS EN ISO 17892-8:2018	A
	Direct shear test – small shearbox apparatus	BS EN ISO 17892-10:2018	A
	Direct shear test – large shearbox apparatus	BS EN ISO 17892-10:2018	A
	Determination of permeability using a flexible wall permeameter	BS EN ISO 17892-11:2019	A
	Liquid limit - fall cone method	BS EN ISO 17892-12:2018 + A2:2022	A
	Plastic limit	BS EN ISO 17892-12:2018 + A2:2022	A
	Plasticity Index	BS EN ISO 17892-12:2018 + A2:2022	A
UNBOUND and HYDRAULICALLY BOUND MIXTURES	Laboratory reference density and water content - vibrating hammer	BS EN 13286-4:2021	A
	Compressive strength of hydraulically bound mixtures	BS EN 13286-41:2021	A
	Manufacture of test specimens of hydraulically bound mixtures using vibrating hammer compaction	BS EN 13286-51:2004	A
	Curing of hydraulically bound mixtures	BS EN 14227-1:2004 Annex C Regime A	A
END			