



AQuality TestConsult Limited
東恒測試顧問有限公司

ADDRESS : No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories,
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香港新界粉嶺坪輦路啟芳園11號A&B

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Main Laboratory : No.11 A&B, Kai Fong Garden, Ping Che Road, Fanling, New Territories, Hong Kong
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Branch Laboratory : Tseung Kwan O Area 137 Fill Bank, Tseung Kwan O, Kowloon
九龍將軍澳第 137 區填料庫

ACCREDITED TEST : Construction Materials
CATEGORY 建築材料

認可測試類別



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Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Admixture (Chemical analysis)	Ash content	BS 5075 : Part 1: 1982 App. D2 + Amd. 4910
	Dry material content	BS 5075 : Part 1: 1982 App. D1 + Amd. 4910
	Conventional dry material content	BS EN 480: Part 8 : 1997 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2 : 2009 Cl. 4.1 & BS EN 480: Part 8 : 2012
	pH value of liquid admixtures	In-house method ADX-C-005 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2 : 2009 Cl. 4.1 & ISO 4316 : 1977
	Relative density of liquid admixtures	BS 5075 : Part 1: 1982 App. D3 + Amd. 4910
	Density	ISO 758 : 1976
	Chloride ion content	BS 5075 : Part 1: 1982 App. E + Amd. 4910
	Water-soluble chloride content	BS EN 480: Part 10 : 1997 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2 : 2009 Cl. 4.1 & BS EN 480: Part 10 : 2009
	Sodium oxide content	BS EN 480: Part 12 : 1998 BS EN 480: Part 12 : 2005 In-house method ADX-C-006
	Potassium oxide content	BS EN 480: Part 12 : 1998 BS EN 480: Part 12 : 2005 In-house method ADX-C-006
	Alkali content	In-house method ADX-C-006 BS EN 480: Part 12 : 1998 BS EN 934: Part 1: 2008 Cl. 4 & BS EN 934: Part 2 : 2009 Cl. 4.1 & BS EN 480: Part 12 : 2005

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Aggregate	Aggregate crushing value	BS 812: Part 110: 1990
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	RILEM TC 106-2:2000 CS1: 2010 Section 22
	Bulk density, void and bulking	BS 812: Part 2: 1995
	Clay, silt and dust content	BS 812: Part 1: 1975 +Amd. 4875 (Decantation method)
	Compacting fraction value of aggregates for granular bed	HKHA Specification Library (2004) Cl. DRA2.T250.4 - DRA2.T290.4 HKHA Specification Library (2008) Cl. DRA2.T250.4 - DRA2.T290.4 General Specification for Civil Engineering Works (2006) Vol. 1 - App.5.2
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Flakiness index	BS 812: Section 105.1: 1985 BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Los Angeles value	CS3: 2013 Section 14
	Methylene blue value	CS3: 2013 Section 13
	Moisture content	BS 812: Part 2: 1975 + Amd. 4615 (Oven drying method) BS 812: Part 109 : 1990 (Oven drying method) CS3: 2013 Section 18
Particle density and water absorption	BS 812: Part 2: 1995 + Amd. 9195 & 10379 CS3: 2013 Section 17	



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Aggregate (cont'd)	Particle size distribution	BS 812: Part 1: 1975 + Amd. 2069 (Sieve analysis) BS 812: Section 103.1: 1985 + Amd. 6003 (Sieve analysis) CS3: 2013 Section 10 + Amd. 1
	Sampling	BS 812: Part 102 : 1989 CS3: 2013 Section 8
	Shell content	BS 812: Part 106: 1985
	Soundness	BS 812: Part 121: 1989 CS3: 2013 Section 19
	Relative density and water absorption	BS 812: Part 2: 1975 + Amd. 4615
	Ten per cent fines value	BS 812: Part 3: 1975 + Amd. 4845 BS 812: Part 111: 1990 CS3: 2013 Section 16
Aggregate (Chemical)	Water-soluble chloride salts	BS 812: Part 117: 1988 BS EN 1744: Part 1: 1998 Cl. 7

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Cement & Portland pulverized fuel ash cement (PPFAC)	Compressive strength of broken mortar prism in the force range 1 kN - 250 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 1992 Annex NC BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 196-6: 1992 Cl.4 (by Blaine method) BS EN 196-6: 2010 Cl.4 (by Blaine method)
	Flexural strength of mortar prisms in the force range 1 kN – 15 kN	BS EN 196-1: 1995 BS EN 196-1: 2005 BS EN 196-1: 2016
	Setting times	BS EN 196-3: 1995 Cl. 6 BS EN 196-3: 2005 + A1: 2008 Cl. 6 BS EN 196-3: 2016 Cl. 6
	Soundness	BS EN 196-3: 1995 Cl. 7 BS EN 196-3: 2005 + A1: 2008 Cl. 7 BS EN 196-3: 2016 Cl. 7
	Standard consistence	BS EN 196-3: 1995 Cl. 5 BS EN 196-3: 2005 + A1: 2008 Cl. 5 BS EN 196-3: 2016 Cl. 5
Concrete	Air content	BS 1881: Part 106: 1983 CS1: 2010 Section 6 BS EN 12350: Part 7: 2009
	Compaction factor	BS 1881: Part 103: 1983 + Amd. 6089, 6726 CS1: 1990 Section 3 + Amd. 1101 & 1102 CS1: 2010 Section 2 Part II
	Compressive strength of cores in the force range 20 kN - 3000 kN	BS 1881: Part 120: 1983 + Amd. 6109 CS1: 1990 Section 15 + Amd. 1201, 1203 & 1205 CS1: 2010 Section 15
	Compressive strength of cubes in the force range 20 kN - 3000 kN	BS 1881: Part 116: 1983 CS1: 1990 Section 12 + Amd. 1202 CS1: 2010 Section 12 BS EN 12390: Part 3: 2009

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Concrete (cont'd)	Curing of test specimens (Tropical zone temperature)	BS 1881: Part 111: 1983 CS1: 1990 Section 10 + Amd. 1101 CS1: 2010 Section 10 BS EN 12390: Part 2: 2000 + Amd. 14343
	Density of compacted fresh concrete	BS 1881: Part 107: 1983 CS1: 1990 Section 5 + Amd. 1101 CS1: 2010 Section 5
	Density of hardened concrete	BS 1881: Part 114: 1983 CS1: 1990 Section 16 + Amd. 1201 & 1203 CS1: 2010 Section 16 BS EN 12390: Part 7: 2009
	Flexural strength of beams in the range 1 kN - 100 kN	BS 1881: Part 118: 1983 CS1: 1990 Section 14 + Amd. 1201 CS1: 2010 Section 14
	Flow table test	BS 1881: Part 105: 1984 CS1: 1990 Section 22 + Amd. 1206 CS1: 2010 Section 2 Part IV BS EN 12350: Part 5: 2009
	Making test beams from fresh concrete	BS 1881: Part 109: 1983 CS1: 1990 Section 8 + Amd. 1101 & 1102 CS1: 2010 Section 8
	Making test cube from fresh concrete	BS 1881: Part 108: 1983 CS1: 1990 Section 7 + Amd. 1101 & 1102 CS1: 2010 Section 7 BS EN 12390: Part 2: 2000 + Amd. 14343
	Making test cylinders from fresh concrete	BS 1881: Part 110: 1983 CS1: 1990 Section 9 + Amd. 1101 & 1102 CS1: 2010 Section 9
	Mixing and sampling of fresh concrete	CS1: 1990 Section 11 + Amd. 1201 CS1: 2010 Section 11
	Obtaining core samples	CS1: 1990 Section 15 + Amd. 1201 CS1: 2010 Section 15

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Concrete (cont'd)	Removal of concrete cover to expose reinforcement	HKHA MTS (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.2.1 HKHA MTS (2012/2014) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Sampling of fresh concrete	BS 1881: Part 101: 1983 CS1: 1990 Section 1 + Amd. 1101 CS1: 2010 Section 1 BS EN 12350: Part 1: 2009
	Slump	BS 1881: Part 102: 1983 CS1: 1990 Section 2 + Amd. 1101 & 1102 CS1: 2010 Section 2 Part I BS EN 12350: Part 2: 2009
	Stiffening time	CS1: 2010 Section 3
	Temperature monitoring	In-house method (CON-P-019)
	Toughness indices and first crack strength of fibre reinforced concrete (using beam with third point loading)	ASTM 1018-97
	Water absorption	BS 1881: Part 122: 1983
Concrete (Chemical)	Chloride content	CS1: 1990 Section 21.10.2 CS1: 2010 Section 21.10.2
	Calcium oxide content	CS1: 1990 Section 21.6 CS1: 2010 Section 21.6
	Cement content	CS1: 1990 Section 21.6.6 CS1: 2010 Section 21.6.6
	Aggregate content	CS1: 1990 Section 21.6.7 CS1: 2010 Section 21.6.7



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Concrete (Diagnostic)	Carbonation test	BRE IP 6/81 BS EN 14630: 2006 HKHA MTS (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2) HKHA MTS (2012/2014) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	BS 1881: Part 204: 1988
	Half cell potential measurement	ASTM C876 – 87
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2001 BS EN 12504-2: 2012
	Ultrasonic pulse velocity measurement	BS 1881: 203: 1986 Cl. 6.2 & 6.3 (direct & semi-direct transmission) BS EN 12504-4: 2004 (direct & semi-direct transmission)
Curtain walls & cladding (spiders)	Proof load test of spiders in the force range 1 kN – 120 kN	Code of Practice for the Structural Use of Steel 2005 Cl. 16.2.1 Code of Practice for the Structural Use of Steel 2011 Cl. 16.2.1

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Grout	Compressive strength of grout cubes in the force range 20 kN to 3000 kN	BS 1881: Part 116: 1983 CS1: 1990 Section 12 + Amd. 1202 CS1: 2010 Section 12 BS EN 12390: Part 3: 2009
	Flow of grout for pre-placed aggregate concrete (flow cone method)	ASTM C939-97 ASTM C939-02 ASTM C939-10
	Expansion and bleeding of freshly mixed grouts for preplaced-aggregates concrete	ASTM C940-87 ASTM C940-98a ASTM C940-10a
	Bleeding and free expansion	General Specification for Civil Engineering Works (1992) Vol. 2 Cl. 17.60 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.60
Ground Granulated Blastfurnace Slag (GGBS)	Activity index	BS EN 15167-1 : 2006 Cl. 5.3.2.3 BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 15167-1 : 2006 Cl. 5.5 BS EN 196-6: 2010 Annex NC
	Fineness	BS EN 15167-1 : 2006 Cl. 5.3.1 BS EN 196-6: 2010 Cl. 4 (Blaine method)
	Initial setting time	BS EN 15167-1 : 2006 Cl. 5.3.2.2 BS EN 196-3: 2005 + A1: 2008 Cl. 6 BS EN 196-3: 2016 Cl. 6
	Moisture content	BS EN 15167-1 : 2006 Annex A
Groundwater (Chemical analysis)	Sulphate content (as SO ₃)	GEOSPEC 3: 2001 Test 9.3
	pH value	GEOSPEC 3: 2001 Test 9.5

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Manhole cover	Permanent set, mass determination & loading test of manhole covers, gully gratings & kerb overflow weirs	BS EN 124: 1994 Cl. 8 + Amd. 8587 BS EN 124: Part 1:2015 General Specification for Civil Engineering Works, vol. 1 (1992) Cl. 5.94 & App. 5.3 General Specification for Civil Engineering Works, vol. 1 (1992) Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works, vol. 1 (2006) Cl. 5.95 & App. 5.3 HKHA Building Works Specification Library (2000) Cl. DIS 3.T430.3 to Cl. DIS 3.T480.3 HKHA Building Works Specification Library (2008) Cl. DRA2.M650.5 and Cl. DRA2.T430.5 to Cl. DRA2.T490.5
Metallic materials	Bend test of carbon steel bars	CS2: 1995
	Bend test of hot rolled bars	BS 4449: 1988
	Bend test on shear stud	BS 5400 Part 6: 1990 Cl. 5.5.4 BS 5950 Part 3: 1990 Cl. A3.2 Code of Practice for the structural use of steel 2005 Cl. 14.3.7 Code of Practice for the structural use of steel 2011 Cl. 14.3.7
	Charpy V-notch impact test of metallic materials	BS EN ISO 148-1: 2016 BS EN 10045: Part 1:1990 In conjunction with the following specification(s): BS EN 10021:2006 Cl.8.3.4.1 BS EN 10025: Part 1:2004 Cl.10.2.2 BS EN 10025: Part 2:2004 Cl.10.2 BS EN 10025: Part 3:2004 Cl.10.2 BS EN 10025: Part 4:2004 Cl.10.2 BS EN 10025: Part 5:2004 Cl.10.2 BS EN 10025: Part 6:2004(A1: 2009) Cl.10.2 BS EN 10210: Part 1:2006 Cl.9.2.3 BS EN 10219: Part 1:2006 Cl.9.2.2 BS 4360: 1986 Cl. 27 BS 4360: 1990 Cl. 27
	Mass per meter of steel reinforcing bars	BS 4449: 2005 + A2: 2009 CS2: 2012

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Metallic materials (cont'd)	Proof load test of bolts and screws in the force range 3 kN – 2000 kN	BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 BS 3692: 2001
	Proof load test of steel nuts in the force range 3 kN – 2000 kN	BS EN ISO 898-2: 2012 BS 3692: 2001 BS 4190: 2001
	Rebend test of carbon steel bars	CS2:1995
	Rebend test of hot rolled bars	BS 4449: 1988
	Rebend test of steel reinforcing bars	BS 4449: 2005 + A2: 2009 CS2: 2012
	Tensile test of bolts and screws in the force range 3 kN – 2000 kN	BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2 BS 3692: 2001 BS 4190: 2001
	Tensile test of carbon steel bars in the force range 3 kN – 2000 kN	CS2: 1995
	Tensile test of hot rolled bars in the force range 3 kN – 2000 kN	BS 4449: 1988
Tensile test of machined specimen of bolts and screws in the force range 3 kN – 2000 kN	BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7 BS 3692: 2001 BS 4190: 2001	

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Metallic materials (cont'd)	Tensile test of metallic materials in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2009 BS EN 10002: Part 1: 2001 in conjunction with the following specification(s): BS EN 10025 : 1990 Cl.7.4.1 & cl.8.6 BS EN 10025: Part 1 : 2004 Cl. 10.3.1 BS EN 10025: Part 2 : 2004 Cl. 10.2 BS EN 10113: Part 1 : 1993 Cl. 8.6.3.1 BS EN 10113: Part 2 : 1993 Cl. 7.4.1 BS EN 10113: Part 3 : 1993 Cl. 7.4.1 BS EN 10155 : 1993 Cl. 7.4.2 & 8.6.3.2 BS EN 10137: Part 1 : 1996 Cl. 8.5.3.2 BS EN 10137: Part 2 : 1996 Cl. 7.4.1 BS EN 10137: Part 3 : 1996 Cl. 7.4.1 BS EN 10210: Part 1 : 1994 Cl. 9.3.1 BS EN 10210: Part 1 : 2006 Cl. 9.2 BS EN 10219: Part 1 : 1997 Cl. 6.7.1 & 9.2
	Tensile test of reinforcing bar with mechanical coupler in the force range 3 kN – 2000 kN	BS 8110 Part 1: 1985 Cl. 3.12.8.16.2 BS 8110 Part 1: 1997 Cl. 3.12.8.16.2 General Specification for Civil Engineering Works (1992) Vol. 2 Cl. 15.33 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3
	Tensile test of steel reinforcing bars in the force range 3 kN – 2000 kN	BS 4449: 2005 + A2: 2009 CS2: 2012
	Vickers hardness test of metal in scale range of HV5, HV10 and HV30	BS EN ISO 6507: Part 1: 1998 BS EN ISO 6507: Part 1: 2005 BS EN 23878: 1993 BS 427: 1990 Section 2



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Metallic materials (chemical analysis) - Carbon steel 250, 500 B, 500C	Elemental Composition :- - Carbon - Chromium - Copper - Molybdenum - Manganese - Nitrogen - Nickel - Sulphur - Phosphorus - Vanadium Carbon equivalent value	In-house method STL-C-001 (Spark OES)
- Stainless steel 316, 316L, 316H	- Carbon - Chromium - Molybdenum - Manganese - Nitrogen - Nickel - Sulphur - Phosphorus - Silicon	CS2:2012 Cl. 1.5.1 In-house method STL-C-001 (Spark OES)

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Mortar	Compressive strength of mortar cubes in the force range 20 kN to 3000 kN	BS 1881: Part 116: 1983 CS1: 1990 Section 12 + Amd. 1202 CS1: 2010 Section 12 BS EN 12390: Part 3: 2009
Pulverized fuel ash (PFA)	Activity index	BS EN 450-1: 2005 + A1: 2007 BS EN 450-1: 2012
	Density	BS 3892: Part 1: 1997 Cl.7 BS EN 450-1: 2005 + A1: 2007 BS EN 450-1: 2012
	Fineness	BS 3892: Part 1: 1982 + Amd. 4629 Annex D BS 3892: Part 1: 1997 Annex D BS EN 451-2: 1995 BS EN 451-2: 2017
	Initial setting time	BS 3892: Part 1: 1997 Cl.10 BS EN 450-1: 2005 + A1: 2007 BS EN 450-1: 2012
	Moisture content	BS 3892: Part 1: 1982 + Amd. 4629 Appendix B BS 3892: Part 1: 1997 Annex C
	Soundness	BS 3892: Part 1: 1997 Cl.11 BS EN 450-1: 2005 + A1: 2007 BS EN 450-1: 2012
	Strength factor	BS 3892: Part 1: 1997 Annex F
	Water requirement	BS 3892: Part 1: 1982 + Amd. 4629 Appendix. E BS 3892: Part 1: 1997 Annex E BS EN 450-1: 2005 + A1: 2007 Annex B BS EN 450-1: 2012 Annex B

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Repair mortar	Bond strength of mortar on concrete (Pull-off test of mortar) in the force range 1 kN to 16 kN	HKHA MTS (2010) Specification Part D Cl. 2.1.15 (Method 1)
	Pull off test in the force range 1 kN to 16kN	In-house method TIL-P-005 (Saw cutting method of coring method)
Render	Pull off test in the force range 1 kN to 16kN	In-house method TIL-P-004 (Saw cutting method of coring method)
Road surfaces	Texture depth of carriageways (sand patch method)	General Specification for Civil Engineering Works (1992) Vol. 2 App. 10.1 General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 HKHA Specification Library (2008) EXT 2.T910.5 to T1010.5
	Surface regularity of carriageways	General Specification for Civil Engineering Works (1992) Vol. 2 Cl. 9.39 to 9.40, Cl. 10.55 to 10.56 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 9.42 to 9.43, Cl. 10.55 to 10.56 HKHA Specification Library (2008) EXT 2.T810.5 to T850.5
Soil (Chemical analysis)	Organic matter content	GEOSPEC 3: 2001 Test 9.1
	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2
	Total sulphate content (as SO ₃)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble sulphate content (as SO ₃)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4
	pH value	GEOSPEC 3: 2001 Test 9.5

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Construction Materials 建築材料		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2
	Comparative test for the determination of moisture content by oven drying	GEOSPEC 3: 2001 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2

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Soil (Phase I) (cont'd)	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine and medium grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine, medium and coarse grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2
Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4	

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Structural fixings (anchor bolts, dowel bars)	Tensile proof load test of anchor bolts, dowel bars in the force range 2 kN - 300 kN	BS 5080: Part 1:1993, Cl. 6.7.1.1 & 7.1.3 In-house method CON-N-007 In-house method CON-N-008
	Shear proof load test of anchor bolts and dowel bars in the force range 1 kN – 200 kN	BS 5080: Part 2: 1986 Cl. 4, 7.1, 7.2.1 & 7.2.3 + Amd 7602 (by incremental loading method) BS 5080: Part 2: 1986 Cl. 4, 7.1, 7.2.1 & 7.2.3 + Amd 7602 (by incremental loading method) with modifications
Tapwares and valves	Dimension	BS EN 1286: 1999 Cl. 8
	Leaktightness test	BS EN 1286: 1999 Cl. 9.3 to 9.5
Tile	Pull-off test of tiles in the force range 1 kN to 16 kN	In-house method TIL-P-001 (saw-cutting method or coring method)
Tile adhesive	Pull-off test of tiles adhesive in the force range 1 kN to 16 kN	In-house method TIL-P-002 (saw-cutting method or coring method)
Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2010 (A1: 2011)
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2012
	Fracture test on welds in metallic materials	BS EN 1320: 1997 ISO 9017: 2001
	Macroscopic examination on welds in metallic materials	BS EN 1321 :1997 BS EN ISO 17639: 2013
	Transverse tensile test on welds in metallic materials in the force range 3 kN – 2000 kN	BS EN 895: 1995 BS EN ISO 4136: 2012
	Vickers hardness test across welded joints in the scale of HV 5 to HV 10	BS EN 1043-1: 1996 ISO 9015-1: 2011



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Tseung Kwan O Area 137 Fill Bank, Tseung Kwan O, Kowloon

九龍將軍澳第137區填料庫

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Soil (Phase I)	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2