

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-393; Effective date of termination: 3 April 2025)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Environmental Testing 環境測試</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following test(s) has been terminated</b>		
Indoor Air Quality Testing  Collectate samples on agar strip	Microbiological tests:-  Airborne bacteria count (number of colonies on agar strip) (30 °C for 2 days)	In-house method B-T-008

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-390; Effective date of termination: 18 March 2025)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong.

香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following tests has been terminated</b>		
Metallic materials	Bend test of carbon steel bars	Building Ordinance Office PNAP 122 (Jan 1990)
	Rebend test of carbon steel bars	Building Ordinance Office PNAP 122 (Jan 1990)
	Tension & slip/permanent elongation test of reinforcing bar with a mechanical coupler in the force range 5 kN – 1500 kN	General specification for Civil Engineering Works (1992) Vol. 2 Cl. 15.33
	Tensile test of reinforcing bars, wire rod, welded fabric or cold reduced wire for reinforcement of concrete in the force range 0.2 kN – 1500 kN	Building Ordinance Office PNAP 122 (Jan 1990)
	Performance test of tension bonded epoxy coated carbon steel bars	Hong Kong Housing Authority Specification Library (2014) CON3.T450.7 & CON3.T460.7

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-386; Effective date of termination: 4 March 2025)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong.

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Foundation	Borehole video inspection test	In-house method (M-Q-017)
	Compression Static loading tests on pile (SLT)	ASTM D1143-81 (re-approved 1994) Cl. 5.1
	Pile integrity test (PIT)	ASTM D5882-00
	Pile dynamic test (PDA)	ASTM D4945-00
	Plate load test (PLT)	AASHTO T222-81 (2008) excluding Cl. 4.6 ASTM D1196/D1196M-12 with modifications
	Ultrasonic echo sounder test (UEST)	In-house method (M-Q-016)

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-381; Effective date of termination: 11 November 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following tests has been terminated</b>		
Foundation	Compression Static loading tests on piles (SLT)	Hong Kong Housing Authority Specification Library (2000) Cl. PIL 1.T660.3 to PIL 1.T.690.3 Cl. PIL 1.T810.3 to PIL 1.T870.3 Cl. PIL 1.T1010.3 to PIL 1.T1020.3 Hong Kong Housing Authority Materials Testing Services (1999/2001) for non-destructive testing for piles Cl. D7 & D9 (c) (viii) including revised specification clause for loading test Hong Kong Housing Authority Specification Library (2000) incorporating new/revised specification clause promulgated in DCMBI No. P02/01 Cl. PIL 1.T610A.A to PIL 1.T610B.A Cl. PIL 1.T630.3 to PIL 1.T690.3 Cl. PIL 1.T810.3 to PIL 1.T900.3 Cl. PIL 1.T1010.A to PIL 1.T1020.A Cl. PIL 1.T1022.N to PIL 1.T1027.A Cl. PIL 1.T1028.N to PIL 1.T1040.3

### Annex III

#### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-380; Effective date of termination: 15 October 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>The accreditation of the following tests has been terminated</b>		
Structural fixings (anchor bolts and dowel bars)	Tensile proof load test of anchor bolts and dowel bars in the force range 1 kN – 500 kN	In-house Method T-T-052 In-house Method T-T-055

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-378; Effective date of termination: 28 August 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong.

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following tests has been terminated</b>		
Foundation	Compression Static loading tests on piles (SLT)	Architectural Services Department General Specification for Building (1993) Section 5.28 Buildings Department PNAP 66 (Jan 2002) Cl. 19 - 20 & App. D Cl. 1 General Specification for Civil Engineering Works (1992) Vol. 1 App. 8.1

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-374; Effective date of termination: 27 May 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following tests has been terminated</b>		
Adhesive	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1
Aggregates	Compacting fraction value of aggregates for granular bed	Hong Kong Housing Authority Specification Library (2004) DRA2.T250.4 to DRA2.T290.4
Concrete	Monitoring of setting time	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Construction Materials Specification Part D Cl. 1.3.9
Grout	Compressive strength of grout cubes in the force range 50 kN - 3000 kN	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Construction Materials Specification Part D Cl. 2.1
Repair mortar	Obtaining inspection core samples	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.22
Soil (Phase I)	In-situ bulk density and in-situ dry density of soils by nuclear densometer method suitable for fine- and medium-grained soils	General Specification for Civil Engineering Works (1992) Vol. 1 App. 6.3
Tile grout	Water absorption	Hong Kong Housing Authority Specification Library (2004) FIN5.M1010.4(2)(c)
	Linear shrinkage	Hong Kong Housing Authority Specification Library (2004) FIN5.M1010.4(2)(c)
	Tile group tensile adhesion compatibility	Hong Kong Housing Authority Specification Library (2004) FIN5.M1010.4(2)(c)

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-374; Effective date of termination: 27 May 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong

香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>The accreditation of the following tests has been terminated</b>		
Metallic materials	Performance test of tension bonded epoxy coated carbon steel bars  Tension & slip/permanent elongation test of reinforcing bar with a mechanical coupler in the force range 5 kN – 1500 kN	Hong Kong Housing Authority Specification Library (2004) CON3.T450.4& CON3.T460.4  In-house method M-T-005

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-372; Effective date of termination: 9 February 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following tests has been terminated</b>		
Paint & varnish	Dry-film coating thickness by magnetic method	BS EN ISO 2178: 1995 + Amd. 8482 (Magnetic method)
Welds (destructive)	Bend test on shear stud connectors	BS 5400: Part 6: 1999 Cl. 5.5.4(b)
Welds (non-destructive)	Visual examination	BS 5289: 1976 In-house method N-T-004 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 4870: Part 1: 1981 Table 5 BS 4871: Part 1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1 ISO 9606-1: 1994 + Amd. 1: 1998 Cl. 8
	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 (1986) BS EN ISO 9934-1: 2001 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 4870: Part 1: 1981 Table 5 BS 4871: Part 1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2007 Table 1
	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 in conjunction with the following specification(s): BS 4870: Part 1: 1981 Table 5 BS 4871: Part 1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) in conjunction with the following specification(s): BS 4870: Part 1: 1981 Table 5 BS 4871: Part 1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1

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### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-372; Effective date of termination: 9 February 2024)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following tests has been terminated</b>		
Welds (non-destructive) (cont'd)	Radiographic examination (Gamma Ray & X-ray)	BS 2600: Part 1: 1983 BS 2910: 1986 in conjunction with the following specification(s): BS 4870: Part 1: 1981 Table 5 BS 4871: Part 1: 1982 Table 3 BS 5135: 1984 Table 18 & 19 BS EN ISO 5817: 2007 Table 1

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-364; Effective date of termination: 11 October 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Concrete	Curing of test specimens (Tropical zone temperature)	CS1: 1990 Section 10 + Amd. 1101
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 1990 Section 12 + Amd. 1201, 1202 & 1203
	Obtaining core samples	CS1: 1990 Section 15 (Amd. 1201 & 1203)
	Compressive strength of concrete cores in the force range 50 kN – 3000 kN	CS1: 1990 Section 15 + Amd. 1201, 1203 & 1205
	Density of hardened concrete	CS1: 1990 Section 16 + Amd. 1201 & 1203
	Accelerated curing of test specimens	BS 1881: Part 112: 1983 (Amd. 6100) (Method 55°C)
	Assessment of the cement, aggregates and water contents of fresh concrete	DD 83: 1983 Section 3
Doors	Behaviour of door leaves under humidity variations	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(h) Test 3
	Dimensional accuracy and squareness	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(f) Test 1
	Evenness	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(g) Test 2
	General flatness	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(g) Test 2
Grout	Compressive strength of grout cubes in the force range 50 kN - 3000 kN	In-house Method K-T-108

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-364; Effective date of termination: 11 October 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong

香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Doors	Resistance to impact (hard body)	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(i) Test 4
	Resistance to torsion	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(j) Test 5
	Strength in the plane of door leaf	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(k) Test 6
	Slamming open	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(l) Test 7
	Slamming closed	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(m) Test 8
	Resistance to jarring and vibration	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(n) Test 9
	Resistance to impact (heavy body)	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(o) Test 10
	Resistance to closing against an obstruction	Hong Kong Housing Authority Specification Library (2004) COM5.M040.4(2)(p) Test 11
Metallic materials	Rebend test of reinforcing bars for reinforcement of concrete	CS2: 2012 + Amd. 2/2018 Cl. 6.1 & 6.5
	Mass per meter of steel reinforcing bars	CS2: 2012 + Amd. 1/2016 + Amd. 2/2018 Cl. 6.1 & 6.2
	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 + Amd. 1/2018 + Amd. 2/2018 Cl. 6.1 & 6.7
	Tensile test of reinforcing bar for reinforcement of concrete in the force range 0.2 kN – 1500 kN	CS2: 2012 + Amd. 1/2016 + Amd. 2/2018 Cl. 6.1 & 6.4

### Annex III

#### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-364; Effective date of termination: 11 October 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 8, Western Support Area, Three Runway System Project Site, Hong Kong International Airport, Lantau, Hong Kong

香港大嶼山香港國際機場三跑道系統項目地盤西面航空輔助設施用地第八地段

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following tests has been terminated</b>		
Metallic materials	Tensile test of reinforcing bars for reinforcement of concrete in the force range 10 kN - 1500 kN	CS2: 2012 + Amd. 1/2016 + Amd. 2/2018 Cl. 6.1 & 6.4
	Mass per metre of steel reinforcing bars	CS2: 2012 + Amd. 2/2018 Cl. 6.1 & 6.2
	Rebend test of reinforcing bars for reinforcement of concrete	CS2: 2012 + Amd. 2/2018 Cl. 6.1 & 6.5

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-362; Effective date of termination: 15 September 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong.

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Admixtures	Air content test	BS EN 934-2: 2001 Table 2(3), 3.1(3), 3.2(4), 4(3), 5(1), 6(3), 7(2), 8(3), 9(3), 10(4), 11.1(4), 11.2(3)& 12(4)
	Bleeding test	BS EN 934-2: 2001 Table 4(1)
	Capillary absorption	BS EN 934-2: 2001 Table 9(1)
	Compression strength	BS EN 934-2: 2001 Table 2(No. 2), 3.1(2), 3.2(3), 4(2), 5(3), 6(2), 7(1), 8(2), 9(2), 10(1), 11.1(1), 11.2(2) & 12(1)
	Increase in consistence	BS EN 934-2: 2001 Table 3.2(1)
	Retention of consistence	BS EN 934-2: 2001 Table 3.2(2) & 11.2(1)
	Setting time	BS EN 934-2: 2001 Table 6(1), 8(1), 10(2), 11.1(2) & 12(2)
	Water reduction	BS EN 934-2: 2001 Table 2(1), 3.1(1), 10(3), 11.1(3) & 12(3)
Water	Suitability of water for making concrete (setting time and strength)	BS 4550-3.5, BS 4550-3.6 & BS 4550-3.4 in conjunction with the following specification: BS 3148: 1980

## Annex III

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-362; Effective date of termination: 15 September 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong.

香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Windows	Air permeability / leakage test	Hong Kong Housing Authority Specification Library (2018) COM2.M005.7 Cl. 2a(iv)
	Watertightness test	Hong Kong Housing Authority Specification Library (2018) COM2.M005.7 Cl. 2a(iv)
	Resistance to wind test	Hong Kong Housing Authority Specification Library (2018) COM2.M005.7 Cl. 2a(iv)

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-360; Effective date of termination: 3 April 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong

香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Concrete	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	CS1: 2010 Section 12
	Curing of test specimens (Tropical zone temperature)	CS1: 2010 Section 10
	Density of hardened concrete (for cubes only)	CS1: 2010 Section 16

### Annex III

#### List of tests for which accreditation has been terminated

(Notification letter No.: HOKLAS015-355; Effective date of termination: 16 January 2023)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Environmental Testing 環境測試</b>		
<b>ITEM TESTED OR MEASURED 測試或量度項目</b>	<b>SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性</b>	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術</b>
<b>Accreditation of the following test has been terminated</b>		
Indoor Air Quality Testing	Extractable components collected in passive samplers:-  - Formaldehyde  - Nitrogen dioxide	In-house method E-T-086 (HPLC/UVD)  In-house method E-T-085 (FIA)

### Annex III

#### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-351; Effective date of termination: 31 October 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following test has been terminated</b>		
Paint & varnish	Viscosity of pigmented materials	S.S. 5: Part 23: 1970

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Aggregates	Aggregate crushing value	BS 812: Part 3: 1975 (Amd. 2153 & 4616)
	Aggregate impact value	BS 812: Part 3: 1975 (Amd. 4616)
	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (1992) Vol. 1 App. 5.2  Hong Kong Housing Authority Specification Library (2000) DIS 3.T240.3 to DIS 3.T270.3
	Elongation index	BS 812: Part 1: 1975 (Amd. 4572)
	Moisture content	BS 812: Part 2: 1975 (Amd. 4615)
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-81 with modification
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-81 with modification
	Ten per cent fines value	BS 812: Part 3: 1975 (Amd. 4616)
Blocks & Bricks	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification (2004) EXT3.T110.4 - T160.4 Hong Kong Housing Authority Specification (2012) EXT3.T110.6 - T160.6
	Water absorption properties of masonry units and segmental pavers	AS/NZS 4456.14: 1997
Cement & Portland pulverised fuel ash cement (PPFAC)	Compressive strength of broken mortar prism in the force range 6 kN - 250 kN	BS EN 196-1: 1995
	Flexural strength of mortar prisms in the force range 2 kN - 250 kN	BS EN 196-1: 1995
	Density	BS EN 196-6: 1992 Annex NC
	Fineness	BS EN 196-6: 1992 Annex NB (using Blaine Method)

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Cement & Portland pulverised fuel ash cement (PPFAC) (cont'd)	Setting times	BS EN 196-3: 1995 Cl. 6
	Soundness	BS EN 196-3: 1995 Cl. 7
	Standard consistence	BS EN 196-3: 1995 Cl. 5
Concrete	Sampling of fresh concrete	BS 1881: Part 101: 1983 + Amd. 6091 & 6728
	Slump of fresh concrete	BS 1881: Part 102: 1983 + Amd. 6090 & 6727 CS1: 1990 Section 2 + Amd. 1101 & 1102
	Compacting factor of fresh concrete	BS 1881: Part 103: 1983 CS1: 1990 Section 3 + Amd. 1101 & 1102
	Flow table test	BS 1881: Part 105: 1984 + Amd. 6087 CS1: 1990 Section 22 + Amd. 1206
	Stiffening time of fresh concrete	Mass Transit Railway Corporation materials and workmanship specification (1998) Vol. 2 of 6 Cl. 11.40(9)
	Density of compacted fresh concrete	BS 1881: Part 107: 1983 + Amd. 6085 & 6722
	Air content of fresh concrete	CS1: 1990 Section 6 + Amd. 1101 & 1102
	Making test cubes from fresh concrete	BS 1881: Part 108: 1983 + Amd. 6105 CS1: 1990 Section 7 + Amd. 1101 & 1102
	Making test beams from fresh concrete	CS1: 1990 Section 8 + Amd. 1101 & 1102
	Making test cylinders from fresh concrete	CS1: 1990 Section 9 + Amd. 1101 & 1102
	Curing of test specimens (Tropical zone temperature)	BS 1881: Part 111: 1983 + Amd. 6102 & 9387
	Mixing and sampling of fresh concrete	BS 1881: Part 125: 1986 + Amd. 6107 CS1: 1990 Section 11 + Amd. 1201
	Compressive strength of concrete cubes in the force range 50 kN – 3000 kN	BS 1881: Part 116: 1983 + Amd. 6097 & 6720
Tensile splitting strength of cylinders in the force range 50 kN – 3000 kN	BS 1881: Part 117: 1983 + Amd. 6096 CS1: 1990 Section 13 + Amd. 1201, 1203 & 1204	

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Concrete (cont'd)	Flexural strength of concrete test beams in the force range 5 kN – 50 kN	BS 1881: Part 118: 1983 + Amd. 6095 CS1: 1990 Section 14 + Amd. 1201
	Compressive strength of concrete cores in the force range 50 kN – 3000 kN	BS 1881: Part 120: 1983 + Amd. 6109
	Density of hardened concrete	BS 1881: Part 114: 1983 + Amd. 6098 & 6721
	Concrete's ability to resist chloride ion penetration	ASTM C1202-05
	Bleeding test	BS EN 480-4: 1997
	Flexural toughness and first-crack strength of fiber-reinforced concrete	ASTM C1018-92
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Removal of concrete/mortar in inspection core	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.2.2
	Cutting out reinforcement	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.2.3
	Moisture content by weighing drilling powder	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 1
Moisture content by weighing minicores	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 2	
Moisture content by speedy moisture tester	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 3	
Crack survey	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.14	

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Concrete (cont'd)	Dry cutting mini-cores	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 6.2
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 6.4
Concrete (diagnostic)	Carbonation test	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)
	Covermeter survey	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2)
Grout	Bleeding and free expansion	General Specification for Civil Engineering Works (1992) Vol.2 Cl. 17.60 Hong Kong Housing Authority Specification Library (2000) Cl. PIL 1.T320.3
	Compressive strength of grout cubes in the force range 50 kN - 3000 kN	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Construction Materials Specification Part D Cl. 2.1 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.3.6.1
	Coutinho Ring shrinkage cracking test	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Construction Materials Specification Part D Cl. 2.1.6
	Curing of test specimen in the laboratory	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Construction Materials Specification Part D Cl. 2.1.1
	Flow of grout for preplaced-aggregate concrete (flow cone method)	ASTM C939-97 ASTM C939-02

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Grout (cont'd)	Modified Figg test-Air permeability test	Hong Kong Housing Authority Specification Library (2004) CON 2.T120.4(a) Hong Kong Housing Authority Materials Testing Services (2008/2010) for Construction Materials Specification Part D Cl. 2.1.7
	Trial mix of grout	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Construction Materials Specification Part D Cl. 2.1.20
Mortar	Air content of freshly mixed mortar (density method)	BS 4551: 1980 Cl. 13.2
Repair mortar	Air permeability	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 2.1.7
		Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.7
		Hong Kong Housing Authority Specification Library (1998) CON2.T120.2(b)
		Hong Kong Housing Authority Specification Library (2000) CON2.T120.3(b)
		Hong Kong Housing Authority Specification Library (2004) CON2.T120.4(a)
		Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.7
	Bond strength of repair mortar (Pull-off test)	Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1
		Hong Kong Housing Authority Materials Testing Services (2010/2012) for Maintenance & Building Materials Specification Part D Cl. 2.1.14
		Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.14

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Repair mortar (cont'd)	Compressive strength of repair mortar cubes in the force range 50 kN - 2000 kN	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 2.1.1 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.1 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Consistence	BS 4551: 1980
	Coutinho ring shrinkage	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 2.1.6 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.6 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.6
	Curing of test specimens	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 2.1.1 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.1 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Flow	BS 4551: 1980
	Long term shrinkage	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 2.1.21 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.21 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.21

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-348; Effective date of termination: 25 August 2022)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following test has been terminated</b>		
Repair mortar (cont'd)	Making of test specimens	Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.1
	Modulus of elasticity in compression	Hong Kong Housing Authority Materials Testing Services (2010/2012) for Maintenance & Building Materials Specification Part D Cl. 2.1.4
		Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.4
		Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.22
	Tensile strength	Hong Kong Housing Authority Materials Testing Services (2010/2012) for Maintenance & Building Materials Specification Part D Cl. 2.1.3 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.3
	Trial mixes	Hong Kong Housing Authority Materials Testing Services (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 2.1.20 Hong Kong Housing Authority Materials Testing Services (2008/2010) for Maintenance & Building Materials Specification Part D Cl. 2.1.20 Hong Kong Housing Authority Materials Testing Services (2014/2016) for Maintenance & Building Materials Specification Part D Cl. 2.1.20
Road surfaces	Texture depth of carriageways	General Specification for Civil Engineering Works (1992) Vol. 2 App. 10.1
Rock	Porosity and density using saturation and buoyancy techniques	International Society for Rock Mechanics (1985) Part 1 Method 3: Suggested method for porosity/density determination using saturation and buoyancy techniques

## Annex II

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-341; Effective date of termination: 31 December 2021)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following test has been terminated</b>		
Glass	Impact performance requirements for flat safety glass and safety plastics for use in buildings	BS 6206: 1981 (Amd. 4580, 5189, 7589, 8156 and 8693) excluding Cl. 6

**Annex III**

**List of tests for which accreditation has been terminated**

(Notification letter No.: HOKLAS015-328; Effective Date of Termination: 18 September 2020)

**Fugro Technical Services Limited**

**輝固技術服務有限公司**

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following tests has been terminated</b>		
Tile grout	Water absorption of tile grout	HKHA test method: T-grout.xls date: 10/04/2000
	Tile group tensile adhesion compatibility with tile adhesive	HKHA test method: T-grout.xls date: 10/04/2000
	Linear shrinkage	HKHA test method: T-grout.xls date: 10/04/2000
Metallic materials	Tensile test of reinforcing bar with mechanical coupler (8 mm – 50 mm diameter) in the force range 10 kN – 1500 kN	KCRC West Rail Standard (Jan 1999) Vol. 2 Structural: Cl. 23.10.05

Units 8-10, 10/F., Worldwide Industrial Centre, 43-47 Shan Mei Street, Fo Tan, Shatin, New Territories, Hong Kong

香港新界沙田火炭山尾街 43 - 47 號環球工業中心 10 樓 8 -10 室

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following tests has been terminated</b>		
Foundation	Static loading tests on piles (SLT)	KCRC Major Capital Works Standard Specification Rev 0 (Mar 2000) Cl. 32.14 App. A32.1 & Section 32 App. 32.3 Cl. 33.18 App. A33.1 & Section 33 App. 33.6 KCRC West Rail Standard Specification WR-SPC-S-0032 (2000) Cl. 32.14 App. A32.1 & Section 32 App. 32.3 Cl. 33.18 App. A33.1 & Section 33 App. 33.6 Mass Transit Railway Corporation Materials and Workmanship Specification for Civil Engineering Works (Mar 1998) Cl. 19.100-19.102 & App. 19.1- 19.2 and App. 19.1-19.2

### Annex III

#### List of test for which accreditation has been terminated

(Notification Letter No. HOKLAS015-323; Effective date of termination: 15 July 2019)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong.

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>Accreditation of the following test has been terminated</b>		
Road surfaces	Luminance coefficient under diffuse illumination (Qd) and retro-reflected luminance (RL) of road markings	BS EN 1436: 1998 Annex B.7 BS EN 1436: 2007 (A1: 2008) Annex B.7

## Annex

### List of tests for which accreditation has been terminated

(Notification Letter No. HOKLAS015-321; Effective date of termination: 31 May 2019)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong.

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>Accreditation of the following tests has been terminated</b>		
Aggregates	Alkali silica reaction potential by ultra-accelerated mortar-bar test	Mass Transit Railway Corporation Specification D/MTRC/NW/CIV/M&W/011/A App. 11.8
Cement & Portland pulverised fuel ash cement (PPFAC)	Fineness	BS 4359: Part 2: 1982 App. D

### Annex III

#### List of activities for which accreditation has been terminated

(Notification Letter No. HOKLAS015-320; Effective date of termination: 31 May 2019)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Testing Required by the China Compulsory Certification System (CCC) 中國強制性產品認證制度規定的檢測</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
Aggregates	Alkali silica reaction potential by ultra-accelerated mortar-bar test	Mass Transit Railway Corporation Specification D/MTRC/NW/CIV/M&W/011/A App. 11.8
Cement & Portland pulverised fuel ash cement (PPFAC)	Fineness	BS 4359: Part 2: 1982 App. D

## Annex III

### List of activities for which accreditation has been terminated

(Notification Letter No. HOKLAS015-316; Effective date of termination: 2 January 2019)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong

香港新界屯門大欖樂怡街五號輝固發展中心

<b>Environmental Testing 環境測試</b>		
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
<b>Accreditation of the following test has been terminated</b>		
Cement (chemical analysis)	Sample preparation	BS 4550: Part 2: 1970 Cl. 1.3.1
	Chloride content (Cl <sup>-</sup> )	BS EN 196-2: 2005 Cl. 14
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2005 Cl. 9
	Loss on ignition (L.O.I.)	BS EN 196-2: 2005 Cl. 7
	Sulfate content (as SO <sub>3</sub> )	BS EN 196-2: 2005 Cl. 8
Pulverized fuel ash (PFA) (chemical analysis)	Loss on ignition (L.O.I.)	BS EN 196-2: 2005 Cl. 7 (using 1h ignition time)
	Sulfate content (as SO <sub>3</sub> )	BS EN 196-2: 2005 Cl. 8
	Chloride content (Cl <sup>-</sup> )	BS EN 196-2: 2005 Cl. 14
Portland pulverised fuel ash cement (PPFAC) (chemical analysis)	Sulfate content (as SO <sub>3</sub> )	BS EN 196-2: 2005 Cl. 8
	Chloride content (Cl <sup>-</sup> )	BS EN 196-2: 2005 Cl. 14

## Annex IV

### List of tests for which accreditation has been terminated

(Notification Letter: HOKLAS015-309; Effective Date of Termination: 23 February 2018)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong  
香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following tests has been terminated</b>		
Metallic materials (steel - reinforcing)	Tensile strength test of carbon steel bars in the force range 10 kN - 1500 kN  Tensile test of steel reinforcing bars in the force range 10 kN – 1500 kN	CS2: 1995 (up to 40 mm dia.) CS2: 1995 Section 5-Purchaser's tests (for 50mm dia.)  CS2: 2012 BS 4449: 2005 + A2 : 2009

## Annex IV

### List of tests for which accreditation has been terminated

(Notification Letter: HOKLAS015-309; Effective Date of Termination: 16 July 2018)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Lot 3250-A4 RP DD104, Ha San Wai, San Tin, Yuen Long, New Territories, Hong Kong

香港新界元朗新田下新圍第 104 約，地段第 3250A 及 4RP 部份

<b>Construction Materials 建築材料</b>		
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
<b>The accreditation of the following tests has been terminated</b>		
Doors	Resistance to closing against an obstruction	HKHA Specification Library (SL) (2000) COM 8.T1210.3 to COM 8.T1220.3 Test 11
	Resistance to jarring and vibration	HKHA Specification Library (SL) (2000) COM 8.T1010.3.3 to COM 8.T1030.3 Test 9
	Strength in the plane of door leaf	HKHA Specification Library (SL) (2000) COM 8.T710.3 to COM 8.T750.3 Test 6
	Resistance to impact (heavy body)	HKHA Specification Library (SL) (2000) COM 8.T1110.3 to COM 8.T1130.3 Test 10
	Resistance to torsion	HKHA Specification Library (SL) (2000) COM 8.T610.3 to COM 8.T630.3 Test 5
	Slamming closed	HKHA Specification Library (SL) (2000) COM 8.T910.3 to COM 8.T920.3 Test 8
	Slamming open	HKHA Specification Library (SL) (2000) COM 8.T810.3 to COM 8.T820.3 Test 7
	Resistance to impact (hard body)	HKHA Specification Library (SL) (2000) COM 8.T510.3 to COM 8.T570.3 Test 4

### Annex III

#### List of tests for which accreditation has been terminated

(Notification Letter: HOKLAS015-299; Effective Date of Termination: 12 September 2017)

#### **Fugro Technical Services Limited**

輝固技術服務有限公司

Fugro Development Centre, 5 Lok Yi Street, Tai Lam, Tuen Mun, New Territories, Hong Kong  
香港新界屯門大欖樂怡街五號輝固發展中心

<b>Construction Materials 建築材料</b>		
<b>ITEM TESTED OR MEASURED</b> 測試或量度項目	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED</b> 規範、標準方法或應用技術
<b>The accreditation of the following tests has been terminated</b>		
Concrete	Concrete's ability to resist chloride ion penetration	ASTM C1202-91 ASTM C1202-97

### Annex III

List of calibration for which accreditation has been terminated

(Notification letter No.: HOKLAS015-283; Effective Date of Termination: 25 July 2016)

#### **Fugro Technical Services Limited**

輝固土力工程及檢測有限公司

<b>MaterialLab Division</b>			
<b>Main Laboratory</b>			
<b>TEST CATEGORY</b> 測試類別	<b>ITEM, MATERIAL OR PRODUCT TESTED</b> 測試項目、材料或產品	<b>SPECIFIC TEST OR PROPERTY MEASURED<sup>@</sup></b> 特定測試或量度的特性 <sup>@</sup>	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
CALIBRATION SERVICES 校正服務	Mass and related measurements  - Density measurements  - Nuclear densometer / nuclear density gauge	Calibration in accordance with ASTM D 2922-96 Cl. A1 over the following range :  1100 kg/m <sup>3</sup> to 2900 kg/m <sup>3</sup>	20 kg/m <sup>3</sup> to 60 kg/m <sup>3</sup>

<sup>@</sup> UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

\* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

## Annex II

List of tests and calibration for which accreditation has been terminated

(Notification letter No.: HOKLAS015-278)

**Fugro Technical Services Limited**  
 輝固土力工程及檢測有限公司

<b>MaterialLab Division</b>			
<b>Main Laboratory</b>			
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	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
<b>The accreditation of the following tests has been terminated.</b>			
CONSTRUCTION MATERIALS 建築材料	Concrete	Flexural toughness of fiber-reinforced concrete (using a centrally loaded round panel)	ASTM C1550-08
ENVIRONMENTAL TESTING 環境測試	Water and Wastewater	Volatile Solids Ignited at 550°C (Organic matter)	APHA 17e 2540 B & E
	Fume cupboard	Alarm system test	BS EN 14175-4: 2004 Cl. 5.9

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<b>MaterialLab Division</b>			
<b>Main Laboratory</b>			
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	SPECIFIC TEST OR PROPERTY MEASURED <sup>@</sup> 特定測試或量度的特性 <sup>@</sup>	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
<b>The accreditation of the following calibration has been terminated.</b>			
CALIBRATION SERVICES 校正服務	Digital level instrument	Verification in accordance with in-house method R-C-247	0.07 mm

.2.

**Note:**

- .1. Effective date of termination: 1 April 2016
- .2. Effective date of termination: 6 April 2016

<sup>@</sup> UNLESS OTHERWISE SPECIFIED, ACCREDITED ACTIVITIES ARE CONDUCTED AT THE LABORATORY.

<sup>\*</sup> THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

## Annex II

### List of tests for which accreditation has been terminated

(Notification letter No.: HOKLAS015-277)

**Fugro Technical Services Limited**  
輝固土力工程及檢測有限公司

<b>MaterialLab Division</b>				
<b>Main Laboratory</b>				
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	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	
<b>The accreditation of the following tests has been terminated.</b>				
CONSTRUCTION MATERIALS 建築材料	Concrete	Crack survey	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.14	.1.
		Cutting out reinforcement	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.3	.1.
		Dry cutting mini-cores	HKHA-MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 6.2	.1.
		Moisture content by weighing drilling powder	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 1	.1.
		Moisture content by weighing minicores	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 2	.1.
		Moisture content by speedy moisture tester	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 3	.1.
		Obtaining drilling powder samples	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 6.4	.1.
		Removal of concrete cover to expose reinforcement	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.2.1	.1.
		Removal of concrete/mortar in inspection core	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.2.2	.1.
	Concrete (diagnostic)	Carbonation test	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 1 & Method 2)	.1.
		Covermeter survey	HKHA MTS (2006/2008) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 (Method 1 & Method 2)	.1.
	Metallic materials (steel - structural)	Bending, shear, tensile and impact tests of mechanical seals	ISO/PAS 17712: 2006	.2.

Note:

- .1. Effective date of termination: 1 February 2016
- .2. Effective date of termination: 31 March 2016



### Annex III

List of calibration for which accreditation has been terminated

(Notification letter No.: HOKLAS015-276; Effective Date of Termination: 29 March 2016)

#### **Fugro Technical Services Limited**

輝固土力工程及檢測有限公司

<b>MaterialLab Division</b>			
<b>Building Component Testing Facility – Kam Tin</b>			
<b>TEST CATEGORY</b> 測試類別	<b>ITEM, MATERIAL OR PRODUCT TESTED</b> 測試項目、材料或產品	<b>SPECIFIC TEST OR PROPERTY MEASURED</b> 特定測試或量度的特性	<b>CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*</b> 校準和測量能力*
<b>The accreditation of the following calibration has been terminated.</b>			
CALIBRATION SERVICES 校正服務	Mass and related measurements  - Force measurements  - Load cell and load cell with hydraulic jack	Calibration in accordance with in-house method R-C-222 over the following ranges :  from 300 kN to 1500 kN above 1500 kN to 6000 kN above 6000 kN to 8000 kN	1.8% 1.5% 1.0%

\* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.

### Annex III

List of tests for which accreditation has been terminated

(Notification letter No.: HOKLAS015-272; Effective Date of Termination: 8 January 2016)

**Fugro Technical Services Limited**

輝固土力工程及檢測有限公司

<b>MaterialLab Division</b>			
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	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
<b>The accreditation of the following examinations has been terminated.</b>			
ENVIRONMENTAL TESTING 環境測試	Water and Wastewater	<ul style="list-style-type: none"> <li>- Chromium</li> <li>- Hexavalent chromium</li> <li>- Total acidity (as CaCO<sub>3</sub>)</li> <li>- Hardness (EDTA)</li> <li>- Sulphate</li> </ul>	<ul style="list-style-type: none"> <li>In-house Method E-T-061</li> <li>APHA 18e 3500 Cr-D</li> <li>APHA 18e 2310 B</li> <li>APHA 18e 2340 C</li> <li>APHA 18e 4500 SO<sub>4</sub><sup>2-</sup> E</li> </ul>

## Annex II

### List of tests for which accreditation has been terminated

(Notification letter No.: HOKLAS015-261; Effective Date of Termination: 15 June 2015)

**Fugro Technical Services Limited**  
 輝固土力工程及檢測有限公司

<b>MaterialLab Division</b>			
<b>Main Laboratory</b>			
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	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
<b>The accreditation of the following tests has been terminated.</b>			
CONSTRUCTION MATERIALS 建築材料	Blocks & Bricks	Compressive strength of interlocking blocks	General Specification for Civil Engineering Works (1992) Vol. 1 App. 11.1 HKHA Specification (1998) RAP3.T010.2 - T060.2 HKHA Specification (2000) RAP3.T010.3 - T060.3
	Cement & Portland pulverised fuel ash cement (PPFAC)	Compressive strength of concrete cubes in the force range 50 kN - 2000 kN	BS 4550: Part 3: 1978 Section 3.4 (Amd. 4247, 4498 & 5704) with modification
		Compressive strength of mortar cubes in the force range 50 kN - 2000 kN	BS 4550: Part 3: 1978 Section 3.4 (Amd. 4247, 4498 & 5704)
		Density	BS 4550: Part 3: 1978 Section 3.2
		Fineness	BS 4550: Part 3: 1978 Section 3.3 (Amd. 4387 & 5703)
		Setting times	BS 4550: Part 3: 1978 Section 3.6 (Amd. 5706)
		Soundness	BS 4550: Part 3: 1978 Section 3.7 (Amd. 5707)
		Standard consistence	BS 4550: Part 3: 1978 Section 3.5 (Amd. 5705)
	Sampling	BS 4550: Part 1: 1978	
	Concrete	Density of compacted fresh concrete	QSPSC App. C

### Annex III

List of tests for which accreditation has been terminated

(Notification letter No.: HOKLAS015-255)

#### Fugro Technical Services Limited

輝固土力工程及檢測有限公司

<b>MateriaLab Division</b>			
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	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
<b>The accreditation of the following examinations has been terminated.</b>			
CONSTRUCTION MATERIALS 建築材料	Aggregates (chemical analysis)	Soluble silica content (SiO <sub>2</sub> )	HKHA MTS (2006/2008) Specification Part D Cl. 1.4.9 .1.
		Soluble calcium oxide content (CaO)	HKHA MTS (2006/2008) Specification Part D Cl. 1.4.9 .1.
	Cement (chemical analysis)	Chloride content (Cl <sup>-</sup> )	BS EN 196-21: 1992 Cl. 4 .1.
		Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 1995 Cl. 9 .1.
		Loss on ignition (L.O.I.)	BS EN 196-2: 1995 Cl. 7 .1.
		Sulfate content (as SO <sub>3</sub> )	BS EN 196-2: 1995 Cl. 8 .1.
		Pulverized fuel ash (PFA) (chemical analysis)	Loss on ignition (L.O.I.)
	Portland pulverised fuel ash cement (PPFAC) (chemical analysis)	Sulfate content (as SO <sub>3</sub> )	BS EN 196-2: 1995 Cl. 8 .1.
		Chloride content (Cl <sup>-</sup> )	BS EN 196-21: 1992 Cl. 4 .1.
		Chloride content (Cl <sup>-</sup> )	BS EN 196-21: 1992 Cl. 4 .1.

List of tests for which accreditation has been terminated  
(Notification letter No.: HOKLAS015-255)

**Fugro Technical Services Limited**  
輝固土力工程及檢測有限公司

<b>MateriaLab Division</b>			
TEST CATEGORY 測試類別	ITEM, MATERIAL OR PRODUCT TESTED 測試項目、材料或產品	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
<b>The accreditation of the following examinations has been terminated.</b>			
ENVIRONMENTAL TESTING 環境測試	Asbestos air-borne fibres and dust	Air sampling	
		a) Background, Environmental & Reassurance Test	In-house Method G-T-015 .2.
		b) Leakage Test	In-house Method G-T-016 .2.
		c) Personal & Work Area Static Test	In-house Method G-T-017 .2.
	d) Clearance Test	In-house Method G-T-018 .2.	
	Asbestos air-borne samples	Fibre counting	MDHS 39 / 3 .2.
Water and Wastewater	Trace Metals :- (Recoverable) - Calcium	APHA 18e 3030 A, B, F.3b & 3111 B .2.	

Note:

- .1. Effective date of termination: 28 February 2015
- .2. Effective date of termination: 31 March 2015

## Annex II

### List of activities for which accreditation has been terminated

(Notification Letter No.: 015-240; Effective date of termination: 15 April 2014)

<b>MaterialLab Division</b>			
<b>Main Laboratory</b>			
<b>TEST CATEGORY 測試類別</b>	<b>ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品</b>	<b>SPECIFIC TESTS OR PROPERTIES MEASURED 特定測試或量度的特性</b>	<b>SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術</b>
CONSTRUCTION MATERIALS 建築材料	Glass	Thickness, width and length (sizes) and flatness of thermally toughened soda lime silicate safety glass	BS EN 12150-1: 2000 Cl. 6
		Thickness, width and length (sizes) and flatness of heat soaked thermally toughened soda lime silicate safety glass	BS EN 14179-1: 2005 Cl. 8
		Localized warp and overall bow and warp of heat-treated flat glass	ASTM C1048-97b Cl. 11.6
	Paint & varnish	Thickness of coating material (dry film thickness)	In-house method T-T-050