



Technology Solution Testing Limited
高科檢測有限公司

ADDRESS : Room 407, 4/F, Yale Industrial Centre, 61-63 Au Pui Wan Street, Shatin, New Territories,
地址 Hong Kong
香港新界沙田坳背灣街61-63號盈力工業中心4樓407室

ENQUIRY : Mr LIU Ka-chun, Quality Manager
查詢 廖家俊先生，質量經理

TELEPHONE : 2367 8660
電話

FAX : -
傳真

E-MAIL : charlie.liu@tstlhk.com
電郵

Website Address : www.technologysolutiontesting.com
網址

CLIENTELE : Public
服務對象 公眾



Scope of Accreditation
Registration No. HOKLAS 297
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Issue Date: 21 October 2024
Ref: HOKLAS297-9

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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
Adhesive	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1 Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1 with modifications
	Pull-off test of tiles	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance and Building Materials Specification Part D Cl. 7.11 with modifications
	Pull-off test of adhesive	ASTM D4541-17 Test Method E BS EN ISO 4624: 2003, BS 3900-E10: 2003 Cl. 9.4.2 & 9.5
Coating	Dry-film coating thickness	BS 3900-C5: 2007 Method 7C (Magnetic induction) BS 3900-C5: 2007 Method 7D (Eddy current)
	Dry-film coating thickness	ASTM D4138-94 (Method A - Wedge cut)
Concrete	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2018/2020) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-09 (Method A & B for pre-wetting)
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3
	Surface hardness measurement	BS 1881: Part 202: 1986 Cl. 6 BS EN 12504-2: 2012

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Structural fixings	Tensile proof load test of anchors and dowel bars by incremental loading in the force range 2 kN to 400 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors and dowel bars by incremental loading in the force range 2 kN to 400 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 3 kN – 400 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

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Welds (non-destructive)	Liquid penetrant test (Colour contrast method)	BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Magnetic particle test (Magnetic flow method, colour contrast method using permanent magnets and A.C. yokes)	BS EN 1290: 1998 BS EN ISO 17638: 2016 in conjunction with the following specifications: BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds)	BS EN 1714: 1998 + Amd. 10286, 13990 & 14941 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS EN 970: 1997 BS EN ISO 17637: 2016 in conjunction with the following specifications: BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b