ASTAR NDT CONSULTANTS LIMITED
華陞檢測及顧問有限公司

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Main Laboratory	:	Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun, New Territories, Hong Kong 香港新界屯門建發街 1 號鳴發工業大厦 9 樓 5 室
Test Location	:	No. 5, Fuda 1 Road, Zhangmutou Town, Dongguan City, Guangdong Province, China 中國廣東省東莞市樟木頭富達一路富達工業區南宿第五棟
ACCREDITED TEST CATEGORY **認可測試類別**	:	Construction Materials 建築材料

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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
Metallic materials (non-destructive)	Ultrasonic test of metallic materials	BS 5996: 1993 BS EN 10160: 1999 BS EN 10306: 2002
	Ultrasonic thickness measurement	BS EN 14127: 2011
Paint & varnish	Dry-film coating thickness by magnetic method	BS EN ISO 2178: 1995 BS EN ISO 2808: 2007 (Method 7C) BS EN ISO 2808: 2019 (Method 7B.2)
	Dry-film coating thickness by eddy current method	BS EN ISO 2360: 2003 BS EN ISO 2808: 2007 (Method 7D) BS EN ISO 2808: 2019 (Method 7C)
Structural fixings	Tensile proof load test of anchors, dowel bars, channel inserts and embed plates in the force range 3 kN – 200 kN	BS 5080: Part 1: 1993 Cl. 7.1.1, 7.1.3 & 7.2 with modifications (by incremental method)
	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 – 200 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 – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 3 kN – 200 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

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Welds (non-destructive)	Liquid penetrant test (Colour contrast and fluorescent methods, solvent removable)	ASME BPVC Sec V: 2017 Article 6, Article 24 SE-165 ASME BPVC Sec V: 2023 Article 6, Article 24 SE-165 ASTM E165/E165M-12 BS 6443: 1984 + Amd. 4844 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): ASME B31.3: 2014 Para. 344.4.2 ASME BPVC Sec VIII Div 1: 2015 App. 8-4 AWS D1.1/D1.1M: 2015 Table 6.1 BS 2971: 1991 Section 7 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 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 and fluorescent method(s) using permanent magnets, A.C. & D.C. yokes)	ASME BPVC Sec V: 2017 Article 7, Article 25 SE-709 ASME BPVC Sec V: 2023 Article 7, Article 25 SE-709 ASTM E709-15 BS 6072: 1981 + Amd. 3960, 4542 & 4843 BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): ASME B31.3: 2014 Para. 344.3.2 AWS D1.1/D1.1M: 2015 Table 6.1 BS 2971: 1991 Section 7 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 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

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Welds (non-destructive) (cont'd)	Radiographic test (Gamma Ray & X-ray)	ASME BPVC Sec V: 2017 Article 2, Article 22 SE-94 ASME BPVC Sec V: 2023 Article 2, Article 22 SE-94 ASTM E94-04 (2010) BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 (up to 300 kV) in conjunction with the following specification(s): ASME B31.3: 2014 Table 341.3.2 ASME BPVC Sec VIII.1 Div 1: 2019 App. 4-3 BS 2971: 1991 Section 7 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 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, nozzle welds and node welds)	ASME BPVC Sec V: 2017 Article 4, Article 23 SE-273 ASME BPVC Sec V: 2023 Article 4, Article 23 SE-273 ASTM E273-15 BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): ASME B31.3: 2008 Para. 344.6.2 ASME BPVC Sec VIII Div 1: 2015 App. 12-3 BS 2971: 1991 Section 7 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 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

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Welds (non-destructive) (cont'd)	Visual examination	ASME BPVC Sec V: 2017 Article 9 ASME BPVC Sec V: 2023 Article 9 BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): ASME B31.3: 2014 Table 341.3.2 AWS D1.1/D1.1M: 2015 Table 6.1 BS 2971: 1991 Section 7 BS 4515-1: 2000 Table 5 BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 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 and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 < together with the following bend test method(s):> BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

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Metallic materials	Charpy V-notch impact test on steel	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-3: 2004 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2 BS EN 10025-5: 2004 Cl. 10.2 BS EN 10025-6: 2004 + A1: 2008 Cl. 10.2
	Tensile test on metallic materials in the force range of 5 kN to 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 BS EN 10025-3: 2004 Cl. 10.2 BS EN 10025-4: 2004 Cl. 10.2 BS EN 10025-5: 2004 Cl. 10.2 BS EN 10025-6: 2004 + A1: 2008 Cl. 10.2
	Vickers hardness test on metallic materials in scale range of HV1 to HV50	BS EN 23878: 1993
Welds (destructive)	Impact test on welds in metallic materials using V-notch test pieces	BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Vickers hardness test on welds in metallic materials in the scale of HV5 to HV10	BS EN 6507-1: 2005 in conjunction with the following specification(s): BS EN ISO 9015-1: 2011
	Bend test on welds in metallic materials	BS EN ISO 5173: 2010 + A1: 2011
	Macroscopic examination of welds in metallic materials	BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 BS EN 1321: 1997
	Fracture test on welds in metallic materials	BS EN ISO 9017: 2013 BS EN ISO 9017: 2018 BS EN 1320: 1997

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Welds (destructive) (cont'd)	Transverse tensile test on welds in metallic materials in the force range of 5 kN to1000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 4136: 2012 BS EN ISO 4136: 2022