



ASTAR NDT CONSULTANTS LIMITED

華陞檢測及顧問有限公司

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CLIENTELE : Public
服務對象 公眾



Scope of Accreditation
Registration No. HOKLAS 228
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Main Laboratory : Flat 5, 9/F, Ming Fat Industrial Building, No. 1 Kin Fat Street, Tuen Mun,
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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** : Construction Materials
認可測試類別 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 & varnishes	Dry-film coating thickness by magnetic method	BS EN ISO 2178: 1995 BS EN ISO 2808: 2007 (Method 7C)
	Dry-film coating thickness by eddy current method	BS EN ISO 2360: 2003 BS EN ISO 2808: 2007 (Method 7D)
Structural fixings	Tensile proof load test of anchor bolts, dowel bar, channel insert and embed plate 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) In-house method AS-TP-019 In-house method AS-TP-046
Welds (non-destructive)	Liquid penetrant test (Colour contrast and fluorescent methods, solvent removable)	ASME BPVC Sec V: 2017 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 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 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 Structural Use of Steel (2011) Table 14.3b

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Welds (non-destructive) (cont'd)	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 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 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 Structural Use of Steel (2011) Table 14.3b
	Radiographic test (Gamma Ray & X-ray)	ASME BPVC Sec V: 2017 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 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 Structural Use of Steel (2011) Table 14.3b

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Welds (non-destructive) (cont'd)	<p>Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)</p> <p>Visual examination</p>	<p>ASME BPVC Sec V: 2017 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 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 Structural Use of Steel (2011) Table 14.3b</p> <p>ASME BPVC Sec V: 2017 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 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 Structural Use of Steel (2011) Table 14.3b</p>
Welds (destructive)	Bend test of shear stud	<p>BS EN ISO 14555: 2017 Cl. 11.3 Buildings Department Code of Practice for Structural Use of Steel (2011) Cl. 14.3.7.3</p>

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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 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

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Welds (destructive)	Impact test on welds in metallic materials using V-notch test pieces Vickers hardness test on welds in metallic materials in the scale of HV5 to HV10 Bend test on welds in metallic materials Macroscopic examination of welds in metallic materials Fracture test on welds in metallic materials Transverse tensile test on welds in metallic materials in the force range of 5 kN to 1000 kN	BS EN ISO 148-1: 2016 in conjunction with the following specification(s): BS EN ISO 9016: 2012 BS EN 6507-1: 2005 in conjunction with the following specification(s): BS EN ISO 9015-1: 2011 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 17639: 2013 BS EN 1321: 1997 BS EN ISO 9017: 2013 BS EN 1320: 1997 BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B in conjunction with the following specification(s): BS EN ISO 4136: 2012