



PROVA Inspection & Testing Co. (HK) Limited
華鋼檢測(香港)有限公司

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CLIENTELE : Public
服務對象 公眾



Scope of Accreditation
Registration No. HOKLAS 141
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Issue Date: 31 March 2025
Ref: HOKLAS141-85

PROVA Inspection & Testing Co. (HK) Limited

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ADDRESS

地址

Main Laboratory : Lot No. 4114, In D.D. 104, Yuen Long, New Territories, Hong Kong
香港新界元朗 104 地段 4114 號

Test Location : 2/F, Factory 7, Dongyuan Chang, 28 Bei Huan Road West, Shiyan Town, Bao'an District,
Shenzhen City, China
中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

ACCREDITED TEST : Construction Materials 建築材料

CATEGORY

認可測試類別

PROVA Inspection & Testing Co. (HK) Limited

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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	Charpy 'V-notch' impact test of structural 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 & Table 9 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2019 + A1:2022 Cl. 10.2.2 & Table 5 & 6 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10088-2: 2014 Cl. 7.4.4, Table 7, 8 & 10 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Proof load test of stainless steel nuts in the force range 3 kN – 2000 kN	BS EN ISO 3506-2: 2020 Cl. 10.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of steel nuts in the force range 3 kN – 2000 kN	BS 3692: 2001 + Amd. 13183 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1
	Proof load test of unmachined (finished) bolts & 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 in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21

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Metallic materials (cont'd)	Tensile test of metallic materials in the force range 3 kN – 2000 kN	BS EN 10002-1: 2001 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 4360: 1990 Cl. 23 BS EN 10025: 1990 Cl. 7.4.1 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 10.2.1 BS EN 10025-2: 2004 Cl. 10.2, Table 7 & 8 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 + A1:2022 Cl. 10.2.1 & Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1 & Table 4 BS EN 10088-2: 2005 Cl. 7.4.2 & Table 7 to 20 BS EN 10088-2: 2014 Cl. 7.4.2 & Table 7 to 20 BS EN 10113-1: 1993 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 BS EN 10113-3: 1993 Cl. 7.4.1 BS EN 10137-1: 1996 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10137-2: 1996 Cl. 7.4.1 BS EN 10137-3: 1996 Cl. 7.4.1 BS EN 10155: 1993 Cl. 7.4.1, 7.4.2 & 8.6.3.2 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6.1 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1, 9.2.2, Table A3 & B3 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2, Table A3, B4 & B5

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Metallic materials (cont'd)	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar (8 mm – 50 mm diameter) in the force range 3 kN – 2000 kN	BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 Buildings Department Code of Practice for Structural Use of Concrete 2013 (2020 Edition) Cl. 3.2.8.3 General specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35
	Tensile strength test of machined bolts and screws in the force range 3 kN – 2000 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 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN ISO 898-1: 1999 Cl. 8.1 BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7
	Tensile strength test of unmachined (finished) bolts and screws in the force range 3 kN – 2000 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 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10 : 2009 Cl. 4.2 BS EN 14399-10 : 2018 Cl. 4.2 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2 BS EN ISO 6507-1: 2023

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Metallic materials (cont'd)	Tensile test of bolting assemblies for determination of tensile resistance in the force range 3kN to 2000kN	BS EN 15048-2: 2016 Cl. 6.2.2 – 6.2.5, 6.3 & 6.4
	Vickers hardness test of metallic materials in the scale range HV5, HV10 & HV30	BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 in conjunction with the following specification(s): BS 3692: 2001 Table 9 BS 3692: 2014 Table 10 BS 4190: 2001 Table 14 BS 4190: 2014 Table 14 BS EN 10088-2: 2005 Table 8 BS EN 10088-2: 2014 Table 10 BS EN 14399-5: 2015 Table 3 BS EN 14399-6: 2015 Table 3 BS EN ISO 898-1: 1999 Table 3 BS EN ISO 898-1: 2009 Table 3 BS EN ISO 898-1: 2013 Table 3 BS EN ISO 3506-1: 2009 Table 3 BS EN ISO 3506-1: 2020 Table 3 BS EN ISO 3506-2: 2009 Table 3 BS EN ISO 3506-2: 2020 Table 4
Metallic materials (non-destructive)	Ultrasonic testing of H beams with parallel flanges and IPE beams (manual method)	BS EN 10306: 2002 in conjunction with the following specification(s): BS EN 10164: 2004 Cl. 5.2 BS EN 10164: 2018 Cl. 6.2
	Ultrasonic testing of steel flat product of thickness equal to or greater than 6 mm (reflection method)	BS EN 10160: 1999 in conjunction with the following specification(s): BS EN 10164: 2004 Cl. 5.2 BS EN 10164: 2018 Cl. 6.2

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Structural fixings	Tensile proof load test of anchors by incremental loading in the force range 1 kN – 500 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test for drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test for drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 1 kN – 500 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 in the force range 1 kN – 500 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear proof load test of anchors by incremental loading in the force range 1 kN – 100 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test for drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test for drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 1 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 1 kN – 100 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C

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Welds (destructive)	Bend test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.2 & 19.3 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 5173: 2023
	Cruciform test on welds in metallic materials	BS 709: 1983 + Amd. 1, 2 & 3
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.4 & 19.5 BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018 in conjunction with the following specification(s): BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 ISO 5817:1992 Table 1
	Longitudinal tensile test on welds in metallic materials in the force range 3 kN - 2000 kN	BS EN 876: 1995 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.1 BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 14555: 2006 Cl. 11.6 & 12.6 BS EN ISO 14555: 2014 Cl. 11.6 & 12.6 BS EN ISO 14555: 2017 Cl. 11.6 & 12.6
	Macro-etch test on welded reinforcement steel for concrete	BS 7123: 1989 Cl. 12.3.4.2 & 12.3.6
	Nick-break test on welds in metallic materials	BS 709: 1983

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Welds (destructive) (cont'd)	Tensile test on arc stud welding in metallic materials in the force range 3 kN to 2000 kN	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 ISO 14555: 2006 Cl. 11.4 & 12.4 BS EN ISO 14555: 2014 Cl. 11.4 & 12.4 BS EN ISO 14555: 2017 Cl. 11.4 & 12.4
	Tensile test on welded reinforcement steel for concrete in the force range 3 kN – 2000 kN	BS 7123: 1989 Cl. 12.3.4.1 & 12.3.5 BS EN ISO 17660-1: 2006 Corr.: 2008 Cl. 14.2
	Transverse tensile test on welds in metallic materials in the force range 3 kN – 2000 kN	BS EN 895: 1995 BS EN ISO 4136: 2011 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Vickers hardness test across welded joints in the scale range HV5, HV10 & HV30	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011
Welds (non-destructive)	Liquid penetrant test (Colour contrast method, solvent removable)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 1289: 1998 Table 1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23277: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b



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Welds (non-destructive) (cont'd)	Magnetic particle test (Magnetic flow method, color contrast technique using permanent magnets and A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2015 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN 1291: 1998 Table 1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 23278: 2015 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b

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Welds (non-destructive) (cont'd)	Ultrasonic test (Butt welds in plates and pipes, 'T' joint welds, nozzle welds and node welds)	BS 3923-1: 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): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 BS EN 1712: 1997 Table A.1 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 BS EN ISO 11666: 2010 Cl. 5 & Annex A BS EN ISO 11666: 2018 Cl. 6 & Annex A Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b
	Visual examination	BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2005) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Table 14.3b Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Table 14.3b

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Welds (non-destructive) (cont'd)	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:> BS 5400: Part 6: 1999 Cl. 5.5.4(b) BS EN ISO 14555: 2006 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 BS EN ISO 14555: 2014 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 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 (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2021 Edition) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel 2011 (2023 Edition) Cl. 14.3.7.3

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Metallic materials	Charpy 'V-notch' impact test of structural 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. 7.3.2, 9.2.3.3 & 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-2: 2019 Cl. 10.2.2 & Table 8 BS EN 10025-3: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-3: 2019 Cl. 10.2.2, Table 5 & 6 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10025-4: 2019 + A1: 2022 Cl. 10.2.2, Table 5 & 6 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2019 Cl. 10.2.2 & Table 5 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10088-2: 2014 Cl. 7.4.4, Table 7, 8 & 10 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Proof load test of stainless steel nuts in the force range 10 kN – 1000 kN	BS EN ISO 3506-2: 2020 Cl. 10.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1 in conjunction with the following specification(s): BS EN ISO 3506-2: 2009 Cl. 6
	Proof load test of steel nuts in the force range 10 kN – 1000 kN	BS 3692: 2001 + Amd. 13183 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2001 Annex A.1 BS 4190: 2014 Annex A.1 BS EN ISO 898-2: 2012 Cl. 9.1 BS EN ISO 898-2: 2022 Cl. 10.1
	Proof load test of unmachined (finished) bolts & screws in the force range 10 kN – 1000 kN	BS EN ISO 898-1: 2009 Cl. 9.6 BS EN ISO 898-1: 2013 Cl. 9.6 in conjunction with the following specification(s): BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21

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中國深圳市寶安區石岩街道北環路西 28 號東原廠廠房 7 二樓

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 (cont'd)	Tensile test of metallic materials in the force range 10 kN – 1000 kN	BS EN 10002-1: 2001 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 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS EN 10025: 1990 Cl. 7.4.1 & 8.6.3.2 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2, Table 7 & 8 BS EN 10025-2: 2019 Cl.10.2.1, Table 6 & 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-3: 2019 Cl. 10.2.1 & Table 4 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2019 + A1: 2022 Cl. 10.2.1 & Table 4 BS EN 10025-5: 2004 Cl. 10.2 & Table 4 BS EN 10025-5: 2019 Cl. 10.2.1 & Table 4 BS EN 10088-2: 2005 Cl. 7.4.2 & Table 7 to 20 BS EN 10088-2: 2014 Cl. 7.4.2 & Table 7 to 20 BS EN 10113-1: 1993 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10113-2: 1993 Cl. 7.4.1 BS EN 10113-3: 1993 Cl. 7.4.1 BS EN 10137-1: 1996 Cl. 8.5.2.2 & 8.6.2.1 BS EN 10137-2: 1996 Cl. 7.4.1 BS EN 10137-3: 1996 Cl. 7.4.1 BS EN 10155: 1993 Cl. 7.4.1, 7.4.2 & 8.6.3.2 BS EN 10164: 2004 Cl. 5.1 & 8.1 BS EN 10164: 2018 Cl. 6.1 & 9.1 BS EN 10210-1: 2006 Cl. 6.6.1, 9.2.1, 9.2.2, Table A3 & B3 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2, Table A3, B4 & B5

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Metallic materials (cont'd)	Tensile strength test of machined bolts & screws in the force range 10 kN – 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 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 20898-1: 1992 + Amd. 7300 Cl. 8.1, Table 3, 6 & 8 BS EN ISO 898-1: 1999 Cl. 8.1 BS EN ISO 898-1: 2009 Cl. 9.7 BS EN ISO 898-1: 2013 Cl. 9.7 ISO 898: Part 1: 1988 Cl. 8.1, Table 3, 6 & 8
	Tensile strength test of unmachined (finished) bolts & screws in the force range 10 kN – 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 3692: 1967 + Amd. 8227 Cl. 12 BS 3692: 2001 + Amd. 13183 Cl. 11 & 13 BS 3692: 2014 Cl. 14 & 21 BS 4190: 1967 + Amd. 1778, 2690 & 8226 Cl. 14 & 19 BS 4190: 2001 Cl. 15 & 20 BS 4190: 2014 Cl. 15 & 21 BS EN 14399-10: 2009 Cl. 4.2 BS EN 14399-10: 2018 Cl. 4.2 BS EN 20898-1: 1992 + Amd. 7300 Cl. 8.2, Table 3, 6 & 8 BS EN ISO 898-1: 1999 Cl. 8.2 BS EN ISO 898-1: 2009 Cl. 9.2 BS EN ISO 898-1: 2013 Cl. 9.2 ISO 898: Part 1: 1988 Cl. 8.2, Table 3, 6 & 8

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Metallic materials (cont'd)	Vickers hardness test of metallic materials in the scale range HV5, HV10 & HV30	BS EN ISO 6507-1: 1998 BS EN ISO 6507-1: 2005 BS EN ISO 6507-1: 2018 BS EN ISO 6507-1: 2023 in conjunction with the following specification(s): BS 3692: 2001 Table 9 BS 3692: 2014 Table 10 BS 4190: 2001 Table 14 BS 4190: 2014 Table 14 BS EN 10088-2: 2005 Table 8 BS EN 10088-2: 2014 Table 10 BS EN 14399-5: 2015 Table 3 BS EN 14399-6: 2015 Table 3 BS EN ISO 898-1: 1999 Table 3 BS EN ISO 898-1: 2009 Table 3 BS EN ISO 898-1: 2013 Table 3 BS EN ISO 3506-1: 2009 Table 3 BS EN ISO 3506-1: 2020 Table 3 BS EN ISO 3506-2: 2009 Table 3 BS EN ISO 3506-2: 2020 Table 4
Welds (destructive)	Bend test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.2 & 19.3 BS EN 910: 1996 BS EN ISO 5173: 2010 + A1: 2011 BS EN ISO 5173: 2023
	Cruciform test on welds in metallic materials	BS 709: 1983 + Amd. 1, 2 & 3
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011 BS EN ISO 9016: 2012 BS EN ISO 9016: 2022
	Fracture test on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.4 & 19.5 BS EN 1320: 1997 BS EN ISO 9017: 2013 BS EN ISO 9017: 2018 in conjunction with the following specification(s): BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2023 Table 1 ISO 5817:1992 Table 1

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Welds (destructive) (cont'd)	Longitudinal tensile test on welds in metallic materials in the force range 10 kN - 1000 kN	BS EN 876: 1995 BS EN ISO 5178: 2011 BS EN ISO 5178: 2019
	Macroscopic examination on welds in metallic materials	BS 4872: Part 1: 1982 Cl. 19.1 BS EN 1321: 1997 BS EN ISO 17639: 2013 BS EN ISO 17639: 2022 in conjunction with the following specification(s): BS EN ISO 14555: 2006 Cl. 11.6 & 12.6 BS EN ISO 14555: 2014 Cl. 11.6 & 12.6 BS EN ISO 14555: 2017 Cl. 11.6 & 12.6
	Macro-etch test on welded reinforcement steel for concrete	BS 7123: 1989 Cl. 12.3.4.2 & 12.3.6
	Nick-break test on welds in metallic materials	BS 709: 1983
	Tensile test on welded reinforcement steel for concrete in the force range 10 kN - 1000 kN	BS 7123: 1989 Cl. 12.3.4.1 & 12.3.5 BS EN ISO 17660-1: 2006 Corr.: 2008 Cl. 14.2
	Transverse tensile test on welds in metallic materials in the force range 10 kN – 1000 kN	BS EN 895: 1995 BS EN ISO 4136: 2011 BS EN ISO 4136: 2012 BS EN ISO 4136: 2022
	Vickers hardness test across welded joints in the scale range HV5, HV10 & HV30	BS EN 1043-1: 1996 BS EN ISO 9015-1: 2011