



Bremick Pty Ltd

ABN 68 000 496 131

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Prestons 2170 NSW

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ATTESTATION OF PRODUCT CONFORMITY

TEST REPORT NUMBER: 54112-30090-WB012309377

DATE OF ISSUE: 12/02/2025

CERTIFICATE NUMBER: 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M30 x 90, job number 54112 to meet the technical requirements of AS/NZS 1252.1:2016, and comply with the verification testing requirements of AS/NZS 1252.2:2016.

Initial Type Third Party Testing has been conducted by Ningbo Zhongji Inspection of Machinery Parts Co, Ltd, an ILAC accredited laboratory.

The Assembly Test requirements (as required by AS/NZS1252.2:2016) have also been conducted by the same ILAC Laboratory.

The remainder of the testing requirements for AS/NZS 1252.2:2016 have been performed by the Bremick NATA accredited Laboratory that complies to ISO/IEC 17025. The Bremick NATA accreditation number is 15567.

Product K0 8.8 STRUCTURAL ASSEMBLIES M30 x 90, job number 54112 has been tested and complies with AS/NZS 1252.1:2016 and AS/NZS 1252.2:2016 and are supported by the attached documentation.

Authorised Bremick representative

A handwritten signature in black ink, appearing to read "Afshin Mohammadiazar".

Afshin Mohammadiazar,
Quality and Technical Manager

Certificate of Conformity of Factory Production Control

This certificate is issued to:

Manufacturer: Bremick PTY LTD

Approved factory No. 3

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product:

High-strength Structural Bolting Assemblies for Preloading

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard(s)

**EN 14399-1:2015 High-strength Structural Bolting Assemblies for Preloading
– Part 1: General Requirements**

under system 2+ are applied and that the factory production controls fulfil all the prescribed requirements set out above.

The attached Schedule, of the same date, details the manufacturing location(s), harmonised product standard and product parameters and shall form a part of this certificate.

This Certificate will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Certificate No:	0343/CPR/SHA/BJG6041035/01
Original Approval:	10 November 2016
Current Certificate:	01 April 2024
Expiry Date:	09 November 2025
LRQA Notified Body Number:	0343



Kevin Wu on behalf of LRQA Nederland B.V.

LRQA Nederland B.V. (Reg. no. 24247948) a private limited company registered in the Netherlands with registered office at George Hintzenweg 77, 3068 AX Rotterdam. A subsidiary of LRQA Group Limited.

LRQA Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'LRQA'. LRQA assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant LRQA entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.

Certificate of Conformity of Factory Production Control No: 0343/CPR/SHA/BJG6041035/01 Schedule

Manufacturer: **Bremick PTY LTD**
Approved factory No. 3

Manufacturing Location and Products	Standard, Grade and Size
Bremick approved factory 3	
-Bolt	EN14399-3
-Nut	M (12-36) X (30-200) — 8.8/10.9 — HR M (12-36) — 8/10—HR
-Bolt	EN14399-4
-Nut	M (12-36) X (30-200) — 10.9 — HV M (12-36) — 10 — HV
-Bolt	EN14399-10
-Nut	M (12-36) X (30-200) —10.9 — HRC M (12-36) — 10 — HRC
-Washer	EN14399-5 D (12-36)
-Washer	EN14399-6 D (12-36)
Remark of finished surface coating type: hot dip galvanizing, electrolytic zinc plating, black/self-color	

Schedule Issue: 03
Date of Schedule Issue: 01 April 2024
LRQA Notified Body Number 0343



Kevin Wu on behalf of LRQA Nederland B.V.

Structural Assembly K0 Range

TEST REPORT No: 54112-30090-WB0123093 DATE OF ISSUE: 12/02/2025 HEAD No:

Product Information

CODE	K08MG300901	JOB NUMBER	54112
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M30 x 90	MANUFACTURE LOT QTY	645
STANDARD	AS 1252.1-2016	TEST QTY	5
QUALITY SYSTEM	GB/T19001-2016/ISO9001:2015	CERTIFICATE NUMBER	00120Q31689R6M/3302

Chemical Composition Complies to ISO898.1~2/AS4291.1~2

PART	HEAT No	C %	Mn %	P %	S %	B %
REQUIRED		0.25~0.55	N/A	0.035 max	0.035 max	0.003 max
BOLT	WB012309377	0.386	0.58	0.022	0.004	0
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	23202402	0.45	0.57	0.019	0.005	0
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	H23030268	0.46	0.58	0.021	0.002	0

Mechanical Properties Tested to AS/NZS1252.1-2016 Table B1

BOLT			NUT		
TEST	REQUIREMENT	RESULT	TEST	REQUIREMENT	RESULT
Hardness	d <= 16mm 22~32 HRC d > 16mm 23~34 HRC	28-29	Hardness	24~36 HRC	28-29
Wedge Test 4 °	d <= 16mm 800MPa d > 16mm 830 MPa	970-979	Proof Stress (min)	1165 MPa	PASS
Yield	660 MPa	766-776	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33~41 HRC	35-36

Hardness Test to ASTM E18 - Wedge test and proof load to ISO 898-1, Nut proof load test to AS 1252.1-2016

Assembly Test Tested to AS/NZS1252.1-2016

TEST CONDITIONS				REQUIREMENT			RESULTS		
CLAMP LENGTH (mm)	No. OF SHIMS	ROTATION SPEED	LUBRICATION CONDITIONS	BOLT LENGTH	MIN NUT Rotation °	TENSION kN MINIMUM	SAMPLE No.	NUT ROTATION DEGREES	BOLT TENSION (kN)
43	1	5	Dry to touch	L<=3d	210	419	SAMPLE 1	220	480.5
							SAMPLE 2	215	477
							SAMPLE 3	217	479
							SAMPLE 4	219	478
							SAMPLE 5	218	481

Visual, Dimensions, Coating & Markings

VISUAL INSPECTION ISO 6157-1. 2.		DIMENSIONS AS/NZS1252-2016	COATING COMPLIES TO AS/NZS1214 REQUIREMENT 50 min		MARKINGS
PART			TYPE	Av µm	
BOLT	PASS	PASS	HDG	62	Bolt : BF 8.8 THREE RADIAL LINES
NUT	PASS	PASS	HDG	63	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	64	Washer : THREE NIBS

This certificate complies with AS/NZS1252.1-2016
The results relate only to the item tested

Name: Afshin Mohammadiazar Signature : 

Position: Quality Manager

TEST REPORT

TEST REPORT No: 54112-30090-WB012309377

DATE OF ISSUE: 12/02/2025

PRODUCT DETAILS

ITEM CODE	K08MG300901	DESCRIPTION	K0 8.8 STRUCT ASS GAL M30 X 90
BOLT HEAT No.	WB012309377	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	23202402	JOB No.	54112
WASHER HEAT No.	H23030268	HEAD MARK	

BOLT

PROOF LOAD

TEST DATE: 12/03/2025

DESCRIPTION	Proof load testing of class 8.8 Bolt to SOP 22-07, AS/NZS 1252.1 and ISO 898.1				
TEST METHOD	Proof load to ISO 898.1 and ISO 6892-1				TEST TEMP °C
REQUIREMENTS	Minimum hold time 15 seconds - min proof load			337.00 kN	26
	PROOF LOAD (Kn)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	0.00	0.00	0.00	COMPLIES
SAMPLE 2	PASS	0.00	0.01	0.01	COMPLIES
SAMPLE 3	PASS	0.00	0.00	0.00	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 12/03/2025

DESCRIPTION	Wedge test of class 8.8 Bolt to SOP 22-05, AS/NZS 1252.1 and ISO 898.1				TEST TEMP °C
TEST METHOD	Wedge test ISO 898.1 and ISO 6892-1				26
	TENSILE STRENGTH Mpa (Rm)	ULTIMATE TENSILE LOAD Kn (Fm)	WEDGE ANGLE	FRACTURE LOCATION	COMPLIANCE
REQUIREMENTS	830 MIN	466 MIN	4	THREAD	
SAMPLE 1	952	534.00	4	THREAD	COMPLIES
SAMPLE 2	932	522.80	4	THREAD	COMPLIES
SAMPLE 3	932	522.90	4	THREAD	COMPLIES

HARDNESS

TEST DATE: 13/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M30 X 90- AS/NZS 1252-2016				
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18				
REQUIREMENTS	d <= 16mm 22-32 HRC - d > 16mm 23-34 HRC				
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE
SAMPLE 1	29	COMPLIES	SAMPLE 5	28	COMPLIES
SAMPLE 2	30	COMPLIES	SAMPLE 6	31	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	28	COMPLIES
SAMPLE 4	29	COMPLIES	SAMPLE 8	30	COMPLIES

* Average of 3 measurements per sample



M5/M7 Logistics Park, Warehouse 4B,
290 Kurrajong Road, Prestons NSW 2170

Accredited for compliance with
ISO/IEC 17025 - testing.
NATA Accredited Laboratory 15567



TEST REPORT

TEST REPORT No: 54112-30090-WB012309377

DATE OF ISSUE: 12/02/2025

PRODUCT DETAILS

ITEM CODE	K08MG300901	DESCRIPTION	K0 8.8 STRUCT ASS GAL M30 X 90
BOLT HEAT No.	WB012309377	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	23202402	JOB No.	54112
WASHER HEAT No.	H23030268	HEAD MARK	

NUT

PROOF LOAD

TEST DATE: 10/03/2025

DESCRIPTION	Proof load testing of Nut to SOP 22-09, AS/NZS 1252.1 and ISO 898.2		TEST TEMP °C
TEST METHOD	Proof load to ISO 898.2 and ISO 6892-1		25
REQUIREMENTS	Minimum hold time 15 seconds - Minimum proof load		653.60 kN
	PROOF LOAD (Kn)	NUT REMOVED BY FINGER	COMPLIANCE
SAMPLE 1	PASS	YES	COMPLIES
SAMPLE 2	PASS	YES	COMPLIES
SAMPLE 3	PASS	YES	COMPLIES

HARDNESS

TEST DATE: 13/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M30 X 90- AS/NZS 1252-2016				
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18				
REQUIREMENTS	24 - 36 HRC				
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE
SAMPLE 1	28	COMPLIES	SAMPLE 5	31	COMPLIES
SAMPLE 2	25	COMPLIES	SAMPLE 6	31	COMPLIES
SAMPLE 3	28	COMPLIES	SAMPLE 7	29	COMPLIES
SAMPLE 4	31	COMPLIES	SAMPLE 8	28	COMPLIES

* Average of 3 measurements per sample



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TEST REPORT

TEST REPORT No: 54112-30090-WB012309377

DATE OF ISSUE: 12/02/2025

PRODUCT DETAILS

ITEM CODE	K08MG300901	DESCRIPTION	K0 8.8 STRUCT ASS GAL M30 X 90
BOLT HEAT No.	WB012309377	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	23202402	JOB No.	54112
WASHER HEAT No.	H23030268	HEAD MARK	

WASHER

HARDNESS

TEST DATE: 13/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M30 X 90- AS/NZS 1252-2016				
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18				
REQUIREMENTS	33 - 41 HRC				
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE
SAMPLE 1	34	COMPLIES	SAMPLE 5	35	COMPLIES
SAMPLE 2	35	COMPLIES	SAMPLE 6	36	COMPLIES
SAMPLE 3	36	COMPLIES	SAMPLE 7	34	COMPLIES
SAMPLE 4	37	COMPLIES	SAMPLE 8	36	COMPLIES

* Average of 3 measurements per sample

Signed:



Afshin Mohammadiazar

Accredited for compliance with
ISO/IEC 17025 - testing.
NATA Accredited Laboratory 15567



Issue Date:

12/02/2025

Note that this report is based on the products supplied to the laboratory and it remains the responsibility of the client to ensure the samples presented are representative of the whole batch. Reproduction of this report, other than in its entirety, must be approved by Bremick Pty Ltd

The results relate only to the item tested



M5/M7 Logistics Park, Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170



中国认可
国际互认
检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

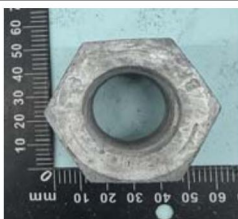
TEST REPORT

Report number: NBZJB202412124

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Receiving Date:	06, Dec., 2024
Test Date:	06, Dec., 2024~09, Dec., 2024
Sample Source:	Supplied by client
Name of Client	Bremick Pty Ltd
Address	88 Dalmeny Avenue, Rosebery NSW 2018
Test Requirements	AS/NZS 1252.1:2016 The technical requirement supplied by client

Description	M30x90 8.8 HDG	Number of Sample(s)	3 PCS
Dimension	M30x90	Class	Bolt class 8.8 Nut class 8
Part Number	K08MG300901	PO No	54112
TRACE No	/	Heat Treatment Lot number	/
(Steel) Heat number	B:WB012309377 N:23202402		
The information above is provided by the client. Our laboratory is not responsible for its authenticity			



Approved by
Manager

Audit by
Engineer



Test by
Engineer



中国认可
国际互认
检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Report number: NBZJB202412124

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NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
1	Assembly test	EN 14399-2:2015	Bolt tension force ≥ 419 kN Nut rotation Degrees ≥ 210°	1A	502.8 kN 210°	Pass
				2A	504.7 kN 210°	Pass
				3A	500.9 kN 210°	Pass
	Equipment : Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000; Validity Of Calibration: 2025.05.16					



THE END

潍坊特钢集团有限公司 WEIFANG SPECIAL STEEL GROUP CO., LTD.

产品质量证明书 MILL TEST CERTIFICATE

产品名称 PRODUCT NAME	棒材/ HOT ROLLED STEEL ROUND BAR	订货单位 CUSTOMER	潍坊宁远经贸有限公司			合同号 CONTRACT NO.	DD23B01045			件数合计(捆) TOTAL BUNDLE	15	证书号 CERTIFICATE NO	202312030000067		
牌号 GRADE	40Cr	执行标准 STANDARD	GB/T 3077-2015			车号 VEHICLE NO.	冀B05566D			重量合计(吨) TOTAL WEIGHT (MT)	41.66	出库单号 DELIVERY ORDER NO.	CF023C00723		
炉号/ HEAT NO.	规格 SIZE MM	件数 BUNDLE	重量 WEIGHT 吨(MT)	化学成分 CHEMICAL COMPOSITION (%)											
				C	Si	Mn	P	S	Cr	Ni	Cu	Mo			
WB012308823	48	1	2.74	0.400	0.218	0.589	0.021	0.008	0.892	0.014	0.012	0.0001			
WB012309377	32	12	33.196	0.386	0.207	0.580	0.022	0.004	0.857	0.008	0.009	0.0001			
WB012309376	32	2	5.724	0.420	0.207	0.568	0.023	0.006	0.875	0.011	0.009	0.0001			
炉号 HEAT NO.	屈服强度 (MPa)	抗拉强度 (MPa)	断后伸长率 (%)	断面收缩 率(%)	冲击功 Aku2(J)	热顶锻	一般疏松	锭型偏析	中心疏松	一般点状 偏析	边缘点状 偏析				
WB012308823	合格/OK	合格/OK	合格/OK	合格/OK	≥47	合格/OK	0.5	0	1	0	0				
	合格/OK	合格/OK	合格/OK	合格/OK	≥47	合格/OK	0.5	0	1	0	0				
WB012309377	合格/OK	合格/OK	合格/OK	合格/OK	≥47	合格/OK	0.5	0	1	0	0				
	合格/OK	合格/OK	合格/OK	合格/OK	≥47	合格/OK	0.5	0	1	0	0				
WB012309376	合格/OK	合格/OK	合格/OK	合格/OK	≥47	合格/OK	0.5	0	1	0	0				
	合格/OK	合格/OK	合格/OK	合格/OK	≥47	合格/OK	0.5	0	1	0	0				
外观及尺寸合格 QUALIFIED APPEARANCE AND SIZE	备注 REMARKS	按生产日期 Ø<10mm 夏季 10天, 春季、秋季 15天, 冬天 20天; Ø≥10mm 夏季 20天, 春季、秋季 25天, 冬天 40天后投入使用。本产品不含有任何放射性元素。 Aging Period: Ø<10mm, 10days(Summer), 15days(Spring&Autumn), 20days(Winter); Ø≥10mm, 20days(Summer), 25days(Spring&Autumn), 40days(Winter) It is guaranteed that the products don't contain any radiochemical impurities.													
注释 NOTES	1、建议按备注时效期天数投入使用; 2、对钢材质量有异议时, 应在发货之日起二月内提出, 并保留能够充分证明为同批号的母材, 来函请标明证书号、炉号、钢号、规格、重量、合同号、原因等; 3、BOF废钢比例要求≤35%; 4、本证明书加盖质检章有效, 复印无效; 5、钢材按实际重量交货; 6、棒材标识中文、档仅供参考; 7、售后服务电话: 0536-7679716 1. It's recommended to use the steel bar according to the aging period; 2. Any claim on quality should be raised within 2 months of delivery date, and samples, certificate number, heat number, steel grade, size, weight, contract number and quality objections should be provided by the buyer; 3. BOF scrap ratio requirement ≤35%; 4. MTC void without Stamp; Copies Void; 5. Delivery on actual weight basis; 6. Pieces in coil tags for reference only; 7. After-sales service phone: 0536-7679716														
签发日期 ISSUED DATE	2023-12-03	制表人 TABULATOR	auto	质量负责人 QUALITY MANAGER	刘建奎	质量部门盖章 STAMP OF QUALITY CONTROL DEPARTMENT									
Address: East of Weigang Road, Steel Mill of Industry Zone, Weifang, China Tel: 0086-536-7679716					H. S. CODE: 7228.30 - Made In China We hereby confirm that no Russia raw material was used.										

Made in China CN-code 722830 We herewith confirm that no russian raw material was used

质检印章 SEAL



浙江元立金属制品集团有限公司
ZHEJIANG YUANLI METAL PRODUCT GROUP CO.,LTD
产品质量证明书
Product Quality Certificate

浙江. 遂昌. 上江工业园区
ShangJiang Industrial Park, SuiChang, Zhejiang, P.R.CHINA
T E L: (0578) 8185935 邮编: 323300
F A X: (0578) 8195050 POST CODE: 323300
浙KK7910

订货单位 Purchaser	杭州宇健特殊钢有限公司	钢号 Steel Grade	45#	出库单号 Delivery NO.	230416012, 230416013
执行标准 Standard	GB/T8749-2021	总重量 Total WEIGHT	37.16	质保书号 Certification	11002821-1
产品名称 Product Name	优质带钢	交货状态 Delivery Condition	热轧	签发日期 Date of Delivery	2023-04-16

序号 NO	炉批号 Heet NO.	规格 (mm) SIZE	件数 QTY	钢号 Steel Grade	化学成份 Chemical Composition %												碳化物		
					C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Ti	AL	V	网状	带状	液析
1	H23030268	190*4.1	1	45#	0.46	0.23	0.58	0.021	0.002	0.044	0.017	0.005	0.036						
2	H23040422	170*3.0	20	45#	0.44	0.22	0.58	0.017	0.005	0.041	0.013	0.004	0.026						
3																			
4																			
5																			
6																			
7																			

序号 NO	物理性能Physical Capability						顶锻 Upsetting		显微组织 Microstructure		非金属夹杂物(级)Non Metallic inclusion								冷弯 180°
											A类		B类		C类		D类		
	Rel/Rp0.2 (Mpa)	Rm (Mpa)	A(%)	Z(%)	Akv (J)	热轧硬 度	热	冷	晶粒度 (级)	脱碳层 (mm)	粗系	细系	粗系	细系	粗系	细系	粗系	细系	
1	471	705	22.5			92.0				0.072									
2	477	750	20.0			92.0				0.072									
3																			
4																			
5																			
6																			
7																			

总计 [Total] 21 件

说明	1.材料的表面质量和外形尺寸均合格, 酸浸低倍组织中白点、宏观夹杂等标准规定不允许有的缺陷, 均保证符合标准出。Dimensions and surfaces are qualified. No defect in the macrostructure of steels. Hereby certify that all is in accordance with relevant standard. 2.有异议时, 来函请标明钢号、炉号、规格、发货单号、原因, 提供质量证明书并将实物保管好。If there is any objection, please provide, Steel grade, Heet NO, dimension, Delivery NO., reasons and quality certificate. Please keep the products original. 3.建议按生产日期15天后使用 Please use after 15 days of the production date.	质检印章 SEAL	签证人 VISA 李秉伟
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