

Bremick Pty Ltd

ABN 68 000 496 131

290 Kurrajong Road

Prestons 2170 NSW

PO Box 6070

Alexandria NSW 2015

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ATTESTATION OF PRODUCT CONFORMITY**TEST REPORT NUMBER:** 54851-24100-B24010196**DATE OF ISSUE:** 26/02/2026**CERTIFICATE NUMBER:** 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M24 x 100, job number 54851 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 M24 x 100, job number 54851 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



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.4

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/0038/CPR/SHA/BJG00000073/A
Original Approval:	09 June 2018
Current Certificate:	09 June 2024
Expiry Date:	08 June 2027
LRQA Notified Body Number:	0343



Alfred Yao on behalf of LRQA Nederland B.V.

Certificate of Conformity of Factory Production Control No:
0343/CPR/0038/CPR/SHA/BJG00000073/ASchedule

Manufacturer: Bremick PTY LTD
Approved factory No.4

Manufacturing Location and Products	Standard, Grade and Size
- Bolt - Nut	EN 14399-3 M (12-36) X (35-200) - 8.8/10.9 -HR M (12-36) - 8/10 – HR
- Bolt - Nut	EN 14399-4 M (12-36) X (35-200) - 10.9 -HV M (12-36) - 10 – HV
- Washer	EN 14399-5 D (12-36)
- Washer	EN 14399-6 D (12-36)

Remark of surface coating type: Hot dip galvanizing, Phosphatizing, Dacromet;

Schedule Issue: 02
Date of Schedule Issue: 09 June 2024
LRQA Notified Body Number 0343

Alfred Yao 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.

Structural Assembly K0 Range

TEST REPORT No: 54851-24100-B24010196

DATE OF ISSUE: 26/02/2026

HEAD No:

Product Information

CODE	K08MG241001	JOB NUMBER	54851
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M24 x 100	MANUFACTURE LOT QTY	1125
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	0.025 max	0.025 max	0.003 max
BOLT	B24010196	0.4	0.71	0.011	0.003	0.0004
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	623120098	0.43	0.72	0.022	0.001	0.0005
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	23910960	0.44	0.75	0.013	0.006	0.0003

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	27.5-28.2	Hardness	24-36 HRC	27.5-28.7
Wedge Test 6°	d <= 16mm 800MPa d > 16mm 830 MPa	915	Proof Stress (min)	1165 MPa	PASS
Yield	660 MPa	813	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33-41 HRC	33.4-34.1

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)
65	2	3	Dry to touch	100.3-111.2	240	293	SAMPLE 1	240	334
							SAMPLE 2	240	332
							SAMPLE 3	240	338
							SAMPLE 4	240	333
							SAMPLE 5	240	335

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	52.1-53.6		Bolt : BF 8.8 THREE RADIAL LINES
NUT	PASS		PASS	HDG	51.1-53.3		Nut : BF 8 THREE ARC LINES
WASHER	PASS		PASS	HDG	52.1-52.8		Washer : THREE NIBS

This certificate complies with AS/NZS1252.1-2016

The results relate only to the item tested

Name: Afshin Mohammadiazar
Position: Quality Manager

Signature :



TEST REPORT

TEST REPORT No: 54851-24100-B24010196

DATE OF ISSUE: 26/02/2026 5

PRODUCT DETAILS

ITEM CODE	K08MG241001	DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 100
BOLT HEAT No.	B24010196	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	623120098	JOB No.	54851
WASHER HEAT No.	23910960	HEAD MARK	

BOLT

PROOF LOAD

TEST DATE: 23/02/2026 1:

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			212.00 KN	27
	PROOF LOAD (KN)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	99.29	99.29	0.00	COMPLIES
SAMPLE 2	PASS	99.37	99.37	0.00	COMPLIES
SAMPLE 3	PASS	99.27	99.28	0.00	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 23/02/2026 1:

DESCRIPTION	Wedge test of class 8.8 Bolt to SOP 22-05, AS/NZS 1252.1 and ISO 898.1				
TEST METHOD	Wedge test ISO 898.1 and ISO 6892-1				TEST TEMP °C
	TENSILE STRENGTH MPa (Rm)	ULTIMATE TENSILE LOAD KN (Fm)	WEDGE ANGLE (°)	FRACTURE LOCATION	COMPLIANCE
REQUIREMENTS	830 MIN	293 MIN	6	THREAD	
SAMPLE 1	979	345.70	4	THREAD	COMPLIES
SAMPLE 2	981	346.30	4	THREAD	COMPLIES
SAMPLE 3	993	350.60	4	THREAD	COMPLIES

HARDNESS

TEST DATE: 26/02/2026 1:

DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 100- 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	31	COMPLIES	SAMPLE 5	31	COMPLIES
SAMPLE 2	31	COMPLIES	SAMPLE 6	32	COMPLIES
SAMPLE 3	31	COMPLIES	SAMPLE 7	31	COMPLIES
SAMPLE 4	31	COMPLIES	SAMPLE 8	32	COMPLIES

* Average of 3 measurements per sample

M5/M7 Logistics Park, Warehouse 4B,
290 Kurrajong Road, Prestons NSW 2170Accredited for compliance with
ISO/IEC 17025 - testing.
NATA Accredited Laboratory 15567

TEST REPORT

TEST REPORT No: 54851-24100-B24010196

DATE OF ISSUE: 26/02/2026 5

PRODUCT DETAILS

ITEM CODE	K08MG241001	DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 100
BOLT HEAT No.	B24010196	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	623120098	JOB No.	54851
WASHER HEAT No.	23910960	HEAD MARK	

NUT

PROOF LOAD

TEST DATE: 21/01/2025 12:

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		23
REQUIREMENTS	Minimum hold time 15 seconds - Minimum proof load		411.20 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: 29/01/2025 12:

DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 100- 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	28	COMPLIES
SAMPLE 2	29	COMPLIES	SAMPLE 6	28	COMPLIES
SAMPLE 3	28	COMPLIES	SAMPLE 7	29	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	28	COMPLIES

* Average of 3 measurements per sample

M5/M7 Logistics Park, Warehouse 4B,
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TEST REPORT

TEST REPORT No: 54851-24100-B24010196

DATE OF ISSUE: 26/02/2026 5

PRODUCT DETAILS

ITEM CODE	K08MG241001	DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 100
BOLT HEAT No.	B24010196	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	623120098	JOB No.	54851
WASHER HEAT No.	23910960	HEAD MARK	

WASHER

HARDNESS

TEST DATE: 29/01/2025 12:

DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 100- 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	38	COMPLIES	SAMPLE 5	37	COMPLIES
SAMPLE 2	38	COMPLIES	SAMPLE 6	36	COMPLIES
SAMPLE 3	38	COMPLIES	SAMPLE 7	37	COMPLIES
SAMPLE 4	37	COMPLIES	SAMPLE 8	38	COMPLIES

* Average of 3 measurements per sample

Signed:



Afshin Mohammadiazar

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



Issue Date: 26/02/2026 5:41:56PM

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



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: NBZJB202411013

Page 1 of 2

Receiving Date:	04, Nov., 2024
Test Date:	04, Nov., 2024~06, Nov., 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	K0 8.8 STRUCT ASS GAL M24 X 100	Number of Sample(s)	3 PCS
Dimension	M24 X 100	Class	Bolt class 8.8 Nut class 8
Part Number	K08MG241001	PO No	54851
TRACE No	/	Heat Treatment Lot number	/
(Steel) Heat number	B:B24010196 N:623120098		

The information above is provided by the client. Our laboratory is not responsible for its authenticity



Approved by
Manager

Handwritten signature of the Manager

Reviewed by
Engineer

Handwritten signature of the Engineer

Test by
Engineer

Handwritten signature of the Engineer



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检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Report number: NBZJB202411013

Page 2 of 2

NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
1	Assembly test	EN 14399-2:2015	Bolt tension force ≥ 264 kN Nut rotation Degrees ≥ 240°	1A	324.2 kN 240°	Pass
				2A	315.0 kN 240°	Pass
				3A	314.1 kN 240°	Pass
Equipment : Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000; Validity Of Calibration: 2025.05.16						



THE END



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

TEL: 18157815951

邮编: 323300

FAX: (0578) 8195050

POST CODE:323300

浙KJ7900

订货单位 Purchaser	杭州宇瞻供应链管理有限公司	钢号 Steel Grade	ML40Cr
产品名称 Product Name	热轧无扭控冷盘条	总重量 Total Weight	39.5
执行标准 Standard	GB/T6478-2015	交货状态 Delivery Condition	热轧

出库单号 Delivery NO.	240119011
质证书号 Certification	11029226-1
签发日期 Date of Delivery	2024-01-19

序号	炉批号 Heet NO.	规格 (mm) SIZE	件数 QTY	钢号 Steel Grade	化学成份 Chemical Composition %															低倍组织 (级)			离淬大端硬 度值(HRC)		
					C	Si	Mn	P	S	Cr	Ni	Mo	Cu	Al	Ti	V	B	W	Zr	一般 疏松	中心 疏松	偏析	9mm	15mm	
1	B24010192	Φ24	2	ML40Cr	0.39	0.22	0.69	0.016	0.007	0.943	0.025	0.008	0.051	0.023	0.003	0.003	0.0004	0.0000	0.0006						
2	B24010196	Φ24	15	ML40Cr	0.40	0.19	0.71	0.011	0.003	0.966	0.021	0.006	0.066	0.022	0.003	0.003	0.0001	0.0000	0.0012						
3	B24010197	Φ24	1	ML40Cr	0.39	0.19	0.73	0.019	0.002	1.000	0.021	0.005	0.062	0.021	0.003	0.003	0.0001	0.0000	0.0009						
4																									
5																									
6																									
7																									

序号	物理性能Physical Capability						顶锻 Upsetting		显微组织 Microstructure		带状 组织 (级)	碳化物 (级)			非金属夹杂物(级)Non Metallic inclusion				冷弯 180°	备注						
	RelRp0.2 (Mpa)	Rm (Mpa)	A (%)	Z (%)	Akv (J)	热轧 硬度 (HRB)	冷 1/3	晶粒度 (级)	膜层厚 (mm)	碳化物 (级)			A类		B类		C类				D类					
										网状		带状	液析	粗系	细系	粗系	细系	粗系			细系	粗系	细系			
1							合格	9	0.122																	
2							合格	9	0.120										1							
3							合格	9	0.120										1							
4																										
5																										
6																										
7																										

总计[Total] 18 件

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,均保证符合标准出厂 Dimensions and surfaces are qualified. No defect in the macrostructure of steels. Heraby 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,并将实物保留好. 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
印章SEAL

签证人VISA:
吴淑君



客户名称 Sold To	新昌云成商贸有限公司				产品名称 Product	热轧盘条 Hot rolled wire rods				
收货单位 Consignee	新昌云成商贸有限公司				提货编号 Delivery no.	FB2312140124	证明书编号 Certificate no.	231214Q00860		
执行标准 Spec.	JIS G 3507-1:2010	牌号 Grade	SWRCH45K	加工用途 Purpose	客户编号 Customer no.	N023474	订单编号 Order no.	O2312140139		
					客户采购案号 Cust Order No.		证明书日期 Issue Date	20231214		
生产许可证号 Approvalcerf No.		钢筋标识 Bar Mark			交货状态 Cond. Of Supply	热轧	车船号 Train/Ship No.	浙FQ9687		

项次 Item No.	轧制序号 Lot No.	炉号 Heat No.	尺寸及规格Material Description			化学成分 % Chemical Analysis								*E09 总脱碳 深度	*O01 冷顶 锻试验							
			产品尺寸 Product Size	数量 Qty	重量 Weight	C	Si	Mn	P	S	Cr	Ni	Cu									
						X10 ⁻²	X10 ⁻²	X10 ⁻²	X10 ⁻³	X10 ⁻³	X10 ⁻²	X10 ⁻²	X10 ⁻²									
规格 Specification						42 48	10 35	60 90	30 MAX	35 MAX	20 MAX	20 MAX	30 MAX	0.35 MAX								
002	K2312070038	623120098	Φ36mm	4	9.628	43	20	72	22	1	5	1	3	0.18 0.2 /	OK OK OK							
TOTAL:						4	9.628															

注释
note *O01=1/2;
外观、形状、尺寸和标识依据中间检查记录判定为合格 ACCORDING TO PROCESS INSPECTION RECORD,VISUAL INSPECTION(SURFACE&SHAPE) AND CHECK OF DIMENSION&MARK: OK
注：产品牌号以质量证明书为准

CE 0038	1、兹证明本表所列产品，均依材料规格制造及试验，并且符合规范之要求。11月、12月、1月、2月、3月时效12天，其它月份时效7天。It is to certify that the products described herein have been manufactured and tested with satisfactory results in accordance with the requirements of the material specification. The aging time should be 12 days during November, December, January, February and March , and 7 days during the other months. 2、品质证明书影本不作有效证明文件。The copy of this Certificate is invalid except stamped. 3、用户验收后使用，如有异议应详细告知其牌号，炉号，并保留实物及标志。Please inform us the steel grade and the heat number of under qualified material(s) found in inspection on time, and keep the material(s) and the marking card.	质量管理处 GENERAL MANAGER, RESEARCH and DEVELOPMENT DEPARTMENT:	综合判定 Comprehensive judgment
			合格

