



Bremick Pty Ltd

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ATTESTATION OF PRODUCT CONFORMITY

TEST REPORT NUMBER: 56786-12040-624111245

DATE OF ISSUE: 30/04/2025

CERTIFICATE NUMBER: 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M12 x 40, job number 56786 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 M12 x 40, job number 56786 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.

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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: 56786-12040-624111245 DATE OF ISSUE: 30/04/2025 HEAD No: A20

Product Information

CODE	K08MG120401	JOB NUMBER	56786
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M12 x 40	MANUFACTURE LOT QTY	11100
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	624111245	0.34	0.76	0.02	0.008	0
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	624111538	0.35	0.75	0.015	0.004	0
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	HB3007222	0.44	0.75	0.016	0.008	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	27-28	Hardness	24~36 HRC	26-27
Wedge Test 6 °	d <= 16mm 800MPa d > 16mm 830 MPa	956-966	Proof Stress (min)	1165 MPa	PASS
Yield	640 MPa	755-765	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33~41 HRC	33-34

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)
20	1	3	Dry to touch	>3d<=7d	240	63	SAMPLE 1	246	71.5
							SAMPLE 2	249	72
							SAMPLE 3	247	72.5
							SAMPLE 4	245	73
							SAMPLE 5	248	73.5

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	54	Bolt : BF 8.8 THREE RADIAL LINES A20
NUT	PASS	PASS	HDG	55	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	56	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: 56786-12040-624111245

DATE OF ISSUE: 30/04/2025

PRODUCT DETAILS

ITEM CODE	K08MG120401	DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 40
BOLT HEAT No.	624111245	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	624111538	JOB No.	56786
WASHER HEAT No.	HB3007222	HEAD MARK	A20

BOLT

PROOF LOAD

TEST DATE: 13/03/2025

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			50.70 kN	26
	PROOF LOAD (Kn)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	39.80	39.79	0.00	COMPLIES
SAMPLE 2	PASS	40.04	40.04	0.01	COMPLIES
SAMPLE 3	PASS	39.80	39.80	0.01	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 13/03/2025

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				27
	TENSILE STRENGTH Mpa (Rm)	ULTIMATE TENSILE LOAD Kn (Fm)	WEDGE ANGLE	FRACTURE LOCATION	COMPLIANCE
REQUIREMENTS	800 MIN	70 MIN	6	THREAD	
SAMPLE 1	918	77.40	6	THREAD	COMPLIES
SAMPLE 2	916	77.30	6	THREAD	COMPLIES
SAMPLE 3	920	77.60	6	THREAD	COMPLIES

HARDNESS

TEST DATE: 18/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 40- 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	29	COMPLIES
SAMPLE 2	29	COMPLIES	SAMPLE 6	28	COMPLIES
SAMPLE 3	28	COMPLIES	SAMPLE 7	28	COMPLIES
SAMPLE 4	30	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: 56786-12040-624111245

DATE OF ISSUE: 30/04/2025

PRODUCT DETAILS

ITEM CODE	K08MG120401	DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 40
BOLT HEAT No.	624111245	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	624111538	JOB No.	56786
WASHER HEAT No.	HB3007222	HEAD MARK	A20

NUT

PROOF LOAD

TEST DATE: 12/03/2025

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		26
REQUIREMENTS	Minimum hold time 15 seconds - Minimum proof load		98.20 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: 18/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 40- 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	29	COMPLIES
SAMPLE 2	29	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	29	COMPLIES	SAMPLE 7	28	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	30	COMPLIES

* Average of 3 measurements per sample



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TEST REPORT

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DATE OF ISSUE: 30/04/2025

PRODUCT DETAILS

ITEM CODE	K08MG120401	DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 40
BOLT HEAT No.	624111245	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	624111538	JOB No.	56786
WASHER HEAT No.	HB3007222	HEAD MARK	A20

WASHER

HARDNESS

TEST DATE: 18/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M12 X 40- 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	33	COMPLIES	SAMPLE 5	34	COMPLIES
SAMPLE 2	33	COMPLIES	SAMPLE 6	35	COMPLIES
SAMPLE 3	34	COMPLIES	SAMPLE 7	33	COMPLIES
SAMPLE 4	33	COMPLIES	SAMPLE 8	33	COMPLIES

* Average of 3 measurements per sample

Signed:


Afshin Mohammadiazar

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



Issue Date: 30/04/2025

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

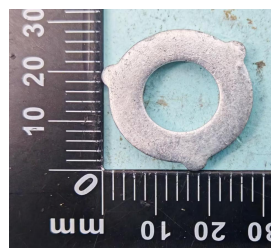
TEST REPORT

Report number: NBZJB202501038

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Receiving Date:	6, Jan., 2025
Test Date:	7, Jan., 2025~8, Jan., 2025
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	M12x40 8.8 HDG	Number of Sample(s)	3 PCS
Dimension	M12x40	Class	Bolt class 8.8 Nut class 8
Part Number	K08MG120401	PO No	56786-S
TRACE No	/	Heat Treatment Lot number	/
(Steel) Heat number	B:624111245 N:624111538		
The information above is provided by the client. Our laboratory is not responsible for its authenticity			



Approved by:

Audit by:



Test by:



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: NBZJB202501038

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NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
1	Assembly test	EN 14399-2:2015	Bolt tension force ≥ 63 kN Nut rotation Degrees ≥ 240°	1A	64.8 kN 240°	Pass
				2A	63.2 kN 240°	Pass
				3A	67.4 kN 240°	Pass
	Equipment : Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000; Validity Of Calibration: 2025.05.16					



THE END



产品质量证明书

CERTIFICATE OF PRODUCT QUALITY

宁波钢铁有限公司
Ningbo Iron & Steel Co.,Ltd
中国 宁波市北仑区霞浦临港二路168号
No.168,Lingang 2 Road,Xiapu,Beilun District,Ningbo,China
TEL: 86-574-86859187 FAX: 86-574-86859900-1750

H0112

客户名称 SOLD TO	物产中大国际贸易集团有限公司 浙江物产国际贸易有限公司				产品名称 PRODUCT	热轧钢卷 Hot Rolled Coil		
收货人名称 SEND TO	物产中大国际贸易集团有限公司				应收凭单号码 AR.NO.	AR2304005187	证明书编号 CERTIFICATE NO.	230421H0112
标准 SPEC.	NIX (H)001-2021; N45D 建议不露天储存				牌号 STEEL GRADE	客户编号 CUSTOMER NO.	订单编号 ORDER NO.	32N00427I
					N45D	交运日期 SHIPPING DATE	证明书日期 T/C ISSUE DATE	2023/04/21
检验 INSP.	NINGBO STEEL MILL INSPECTION			工厂许可证编号 WORKS APPROVAL LETTER NO.	客户采购案号 CUST. ORDER NO.		T/C	1/0

项次 ITEM NO.	产品序号 SLAB NO.	钢卷编号 COIL NO.	熔炼号 HEAT NO.	尺寸及规格 MATERIAL DESCRIPTION					化学成分 CHEMICAL ANALYSIS %								拉伸试验 A01 G.L.=565S			备注 REMARK
				厚度 THICK mm	宽度 WIDTH mm	长度 LENGTH mm	数量 QTY	重量 WEIGHT t	C	Si	Mn	P	S	Cr	Ni	Cu	屈服 YS	抗拉 TS Rm	伸长率 EL A	
									X10 ⁻²	X10 ⁻²	X10 ⁻²	X10 ⁻³	X10 ⁻³	X10 ⁻²	X10 ⁻²	X10 ⁻²	N/mm ²	%		
02	HB3007222	341084591	N312303	2.72	1290	C	1	20.810	44	21	75	16	8	2	0	1		685	27.5	
				TOTAL:																

SURVEYOR	注释 NOTES	A01 GAGE LENGTH 标距 Rm等同σb 565S: 5.65*SQRT(S) A 原始标距为5.65sqrt(S)的断后伸长率 化学成分: 熔炼分析
	兹证明本表所列产品, 均依材料规范制造及试验, 并且符合规范的要求。 WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.	

宁波钢铁有限公司
电子质量证明书专用章
热轧

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