



**Bremick Pty Ltd**

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**ATTESTATION OF PRODUCT CONFORMITY**

**TEST REPORT NUMBER:** 55350-20045-8823120403

**DATE OF ISSUE:** 08/04/2025

**CERTIFICATE NUMBER:** 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M20 x 45, job number 55350 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 M20 x 45, job number 55350 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	EN 14399-3
- Nut	M (12-36) X (35-200) - 8.8/10.9 -HR M (12-36) - 8/10 – HR
- Bolt	EN 14399-4
- Nut	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: 55350-20045-8823120403      DATE OF ISSUE: 12/02/2025      HEAD No:

Product Information

CODE	K08MG200451	JOB NUMBER	55350
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M20 x 45	MANUFACTURE LOT QTY	3375
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	8823120403	0.4	0.7	0.015	0.008	0.0004
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	823120113	0.47	0.71	0.013	0.009	0.0005
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	23913156	0.45	0.71	0.017	0.007	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	27.9-28.9	Hardness	24~36 HRC	28.4-28.9
Wedge Test    6 °	d <= 16mm 800MPa   d > 16mm 830 MPa	947	Proof Stress (min)	1165 MPa	PASS
Yield	660 MPa	820	WASHER		
Proof Stress	d <= 16mm 580 MPa   d > 16mm 600 MPa	PASS	Hardness	33~41 HRC	33.2-34.7

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)
N/A	N/A	N/A	N/A	N/A	N/A	N/A	SAMPLE 1	>210	227
							SAMPLE 2	>210	235
							SAMPLE 3	>210	233
							SAMPLE 4	>210	236
							SAMPLE 5	>210	235

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	52.3-53.4	Bolt : BF 8.8 THREE RADIAL LINES
NUT	PASS	PASS	HDG	51.3-53.1	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	52.1-53.6	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: 55350-20045-8823120403

DATE OF ISSUE: 12/02/2025

## PRODUCT DETAILS

ITEM CODE	K08MG200451	DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 45
BOLT HEAT No.	8823120403	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	823120113	JOB No.	55350
WASHER HEAT No.	23913156	HEAD MARK	

## BOLT

### PROOF LOAD

TEST DATE: 1/03/2025

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

### WEDGE LOAD TENSILE TEST

TEST DATE: 5/03/2025

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				24
	TENSILE STRENGTH Mpa (Rm)	ULTIMATE TENSILE LOAD Kn (Fm)	WEDGE ANGLE	FRACTURE LOCATION	COMPLIANCE
REQUIREMENTS	830 MIN	203 MIN	6	THREAD	
SAMPLE 1	959	234.90	6	THREAD	COMPLIES
SAMPLE 2	954	233.70	6	THREAD	COMPLIES
SAMPLE 3	969	237.40	6	THREAD	COMPLIES

### HARDNESS

TEST DATE: 28/02/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 45- 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	30	COMPLIES	SAMPLE 5	31	COMPLIES
SAMPLE 2	30	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	31	COMPLIES
SAMPLE 4	31	COMPLIES	SAMPLE 8	29	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: 55350-20045-8823120403

DATE OF ISSUE: 12/02/2025

## PRODUCT DETAILS

ITEM CODE	K08MG200451	DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 45
BOLT HEAT No.	8823120403	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	823120113	JOB No.	55350
WASHER HEAT No.	23913156	HEAD MARK	

## NUT

### PROOF LOAD

TEST DATE: 6/01/2025

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		285.40 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: 28/02/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 45- 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	27	COMPLIES	SAMPLE 5	30	COMPLIES
SAMPLE 2	27	COMPLIES	SAMPLE 6	28	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	30	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	30	COMPLIES

\* Average of 3 measurements per sample



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# TEST REPORT

TEST REPORT No: 55350-20045-8823120403

DATE OF ISSUE: 12/02/2025

## PRODUCT DETAILS

ITEM CODE	K08MG200451	DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 45
BOLT HEAT No.	8823120403	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	823120113	JOB No.	55350
WASHER HEAT No.	23913156	HEAD MARK	

## WASHER

### HARDNESS

TEST DATE: 28/02/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M20 X 45- 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	27	COMPLIES	SAMPLE 5	31	COMPLIES
SAMPLE 2	27	COMPLIES	SAMPLE 6	29	COMPLIES
SAMPLE 3	30	COMPLIES	SAMPLE 7	31	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	29	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

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3<sup>rd</sup> May 2021

**Subject: AS/NZS 1252.1-2016 Assembly Test Limitation**

AS/NZS 1252.1-2016 specifies that structural bolts assemblies are required to meet Clause 1.5 to satisfy the requirements of the Standard.

The Test Standard to meet this requirement is EN 14399-2.

**Limitations**

Short bolts may prevent the test from being performed and the length will vary with diameter.

The minimum requirement is that two threads exist after tightening between the end of the bolt and the unloaded face on the nut, see Figure No 1.

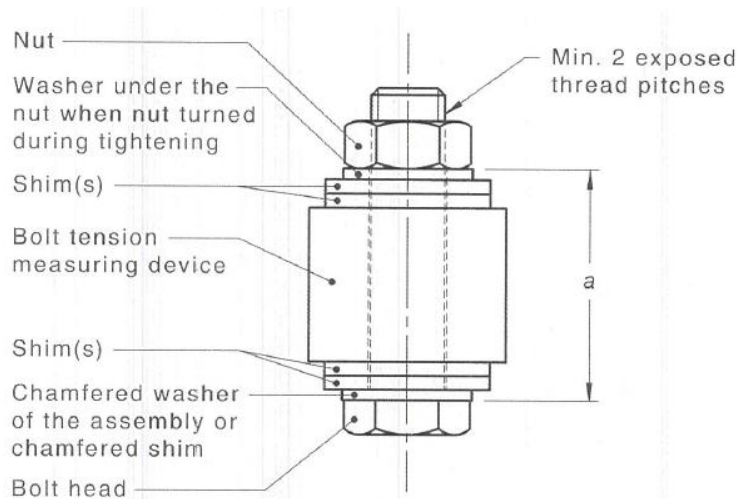


Figure No1

The length limitations will prevent some short bolts from being test by the third party ILAC laboratory which is shown on our Assembly Test certificate.

**When this document is supplied with the other certification it indicates that the short bolt could not be tested to the requirements specified in EN 14399-2 and that an Assembly Test Certificate will not be issued.**



If you have any further questions please contact me on e-mail [afshinm@bremick.com.au](mailto:afshinm@bremick.com.au) ,  
ph 02 83321560 or mob 0414282575

Yours sincerely,

A handwritten signature in black ink, appearing to read 'Afshin', followed by a stylized flourish.

Afshin Mohammadiazar,  
Quality and Technical Manager.



浙江华宏钢铁  
ZHEJIANG HUAHONG STEEL

# 产品质量证明书

INSPECTION CERTIFICATE

丽水华宏钢铁制品有限公司  
LISHUI HUAHONG STEEL PRODUCTS CO., LTD

订货单位: 杭州宇珩供应链管理有限公司  
产品名称: 无扭控冷热轧盘条

发货单号: 22-2/调AV7230  
执行标准: GB/T 6478-2015  
证书编号: 202312220178  
发货日期: 2023-12-22  
识别码: T2CQI1

序号	牌号	规格	轧制批号	冶炼炉号	件数	重量(t)	化学成分(wt%)																	
							C	Si	Mn	P	S	Cr	Ni	Cu	V	Mo	Al							
							2	2	2	3	3	2	2	2	3	2	4							
1= $\times 10^{-1}$ 2= $\times 10^{-2}$ 3= $\times 10^{-3}$ 4= $\times 10^{-4}$																								
1	ML40Cr	Φ20	0123120400	8823120406	13	26.655	39	13	68	9	10	95	4	9	6	2	84							
2	ML40Cr	Φ20	0123120402	8823120408	4	8.236	40	15	69	17	8	96	4	10	6	2	94							
3	ML40Cr	Φ20	0123120401	8823120407	1	2.040	39	15	69	14	10	98	4	9	6	2	35							
4	ML40Cr	Φ20	0123120397	8823120403	2	4.019	40	14	70	15	8	93	5	8	6	1	127							
合计:					20	40.950																		

序号	力学性能						非金属夹杂物								冷弯	顶锻	脱碳 (mm)	低倍	硬度			晶粒度 (级)	金相组织	AKu2 (J)
							A		B		C		D						DS					
	粗	细	粗	细	粗	细	粗	细																
1														合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								
2														合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								
3														合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								
4														合格 合格 合格	0.01 0.01 0.01	合格 合格 合格								

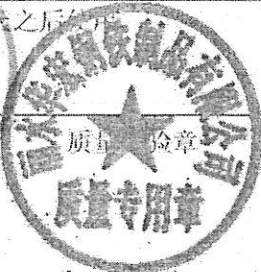
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天之后


注意事项: 1、质量证明书复印件不作有效证明文件。  
2、外形尺寸、表面质量合格。  
3、用户如有异议应及时告知牌号、批号、规格, 并保留标牌、实物及标志。

签发人: ☒

签发日期: 2023.12.22





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							提货编单号 Delivery no.		FB2312140061			证明书编号 Certificate no.		231214Q00931									
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.		O2312140066											
							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.		苏DFV157											
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 碳层 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 <sup>-2</sup>	X10 <sup>-2</sup>	X10 <sup>-2</sup>	X10 <sup>-3</sup>	X10 <sup>-3</sup>	X10 <sup>-2</sup>	X10 <sup>-2</sup>													X10 <sup>-2</sup>
规格 Specification			42 48	10 35	60 90	30 MAX	35 MAX	20 MAX	20 MAX	30 MAX	0.3 MAX														
001	K2312060041	823120113	Φ30mm	14	33.925	47	16	71	13	9	4	2	3	0.14 0.14 /	OK OK OK										
			TOTAL:	14	33.925																				
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 qualifiedmaterial(s) found in inspection on time, and keep the material(s) and the marking card.													质量管理处 GENERAL MANAGER, REASEARCH and DEVELOPMENT DEPARTMENT:					综合判定 Comprehensive judgment						
																			合格						



买方名称: 苏州友尼可紧固件有限公司  
Buyer  
客户编号: JS4343  
Buyer No.  
合同编号:  
Condition



A circular blue ink stamp from Nanjing Iron & Steel Co., Ltd. The outer ring contains the text "NANJING IRON & STEEL CO., LTD." at the top and "PRODUCT CERTIFICATE" at the bottom. Inside the ring, the Chinese characters "南京钢铁股份有限公司" are written in a circular path. In the center of the stamp is a stylized logo consisting of a circle with a horizontal bar through it, resembling a 'G' or a stylized 'N'.

质量记录编号: JL100608/C