

Bremick Pty Ltd

ABN 68 000 496 131

290 Kurrajong Road Prestons 2170 NSW PO Box 6070 Alexandria NSW 2015 Tel: +61 2 8332 1501

Fax: +61 2 9690 1474

ATTESTATION OF PRODUCT CONFORMITY

TEST REPORT NUMBER: 56540-24200-824091142 **DATE OF ISSUE:** 15/01/2025

CERTIFICATE NUMBER: 00120O31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M24 x 200, job number 56540 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 200, job number 56540 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. 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



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

Bremick PTY LTD Manufacturer:

Approved factory No. 3

Manufacturing Location and

Standard, Grade and Size

Products 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.

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LRQA NL BV CPR Certificate Template Rev 0 2024-01

Page 2 of 2

Structural Assembly K0 Range



TEST REPORT No: 56540-24200-824091142 DATE OF ISSUE: 15/01/2025 HEAD No: A17

Product Information

CODE	K08MG242001	JOB NUMBER	56540
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M24 x 200	MANUFACTURE LOT QTY	880
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	С %	Mn %	Р%	S %	В%
REQUIRED		0.25~0.55	N/A	0.035 max	0.035 max	0.003 max
BOLT	824091142	0.33	0.84	0.013	0.004	0.0025
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	J22407955	0.44	0.64	0.014	0.003	0
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	HA3154593	0.44	0.72	0.013	0.003	0

Mechanical Properties

Tested to AS/NZS1252.1-2016 Table B1

	BOLT	
TEST	REQUIREMENT	RESULT
Hardness	d <= 16mm 22~32 HRC d > 16mm 23~34 HRC	26-27
Wedge Test 6 º	d <= 16mm 800MPa d > 16mm 830 MPa	941-950
Yield	660 MPa	755-763
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS

NUT					
TEST	REQUIREMENT	RESULT			
Hardness	24~36 HRC	29-30			
Proof Stress (min)	1165 MPa	PASS			
WASHER					
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 º	TENSION kn Minimum	SAMPLE No.	NUT ROTATION DEGREES	BOLT TENSION (kN)
161	3	4	Dry to touch	>7d<=11d	270	264	SAMPLE 1	275	302
							SAMPLE 2	277	303
							SAMPLE 3	279	301.5
							SAMPLE 4	280	299
							SAMPLE 5	278	298.5

Visual, Dimensions, Coating & Markings

PART	VISUAL INSPECTION ISO 6157-1. 2.
BOLT	PASS
NUT	PASS
WASHER	PASS

DIMENS AS/NZS12	
PASS	3
PASS	}
PASS	5

COATING COMPLIES TO AS/NZS1214 REQUIREMENT 50 min					
TYPE Av µm					
HDG	58				
HDG 59					
HDG 60					

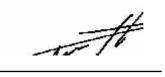
MARKINGS
Bolt : BF 8.8 THREE RADIAL LINES A17
Nut : BF 8 THREE ARC LINES
Washer : THREE NIBS

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: 56540-24200-824091142 DATE OF ISSUE: 15/01/2025

PRODUCT DETAILS

ITEM CODE	K08MG242001	DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 200
BOLT HEAT No.	824091142	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	J22407955	JOB No.	56540
WASHER HEAT No.	HA3154593	HEAD MARK	A17

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	TEST TEMP ° C						
REQUIREMENTS	Minimum hold time 15 s	Minimum hold time 15 seconds - min proof load 212.00 kN						
	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	0.01	0.01	COMPLIES			
SAMPLE 3	PASS	0.00	0.01	0.01	COMPLIES			

WEDGE LOAD TENSILE TEST TEST DATE: 1/03/2025

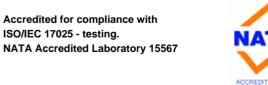
DESCRIPTION	Wedge test of class 8.8 E	TEST TEMP ° C				
TEST METHOD	Wedge test ISO 898.1 and	Wedge test ISO 898.1 and ISO 6892-1				
	TENSILE STRENGTH Mpa (Rm)	COMPLIANCE				
REQUIREMENTS	830 MIN	293 MIN	6	THREAD		
SAMPLE 1	946	334.00	6	THREAD	COMPLIES	
SAMPLE 2	934	329.70	6	THREAD	COMPLIES	
SAMPLE 3	958	338.00	6	THREAD	COMPLIES	

HARDNESS TEST DATE: 5/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GA	K0 8.8 STRUCT ASS GAL M24 X 200- AS/NZS 1252-2016												
TEST METHOD	Rockwell Hardness test	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18												
REQUIREMENTS	d <= 16mm 22-32 HRC -	I <= 16mm 22-32 HRC - d > 16mm 23-34 HRC												
	AVERAGE * HARDNESS (HRC)	COMPLIANCE SAMPLE COMPLIANCE												
SAMPLE 1	29	COMPLIES	SAMPLE 5	28	COMPLIES									
SAMPLE 2	27	27 COMPLIES SAMPLE 6 30												
SAMPLE 3	28	28 COMPLIES SAMPLE 7 29 COMPLIES												
SAMPLE 4	29	COMPLIES	SAMPLE 8	27	COMPLIES									

^{*} Average of 3 measurements per sample







TEST REPORT

TEST REPORT No: 56540-24200-824091142 DATE OF ISSUE: 15/01/2025

PRODUCT DETAILS

ITEM CODE	K08MG242001	DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 200
BOLT HEAT No.	824091142	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	J22407955	JOB No.	56540
WASHER HEAT No.	HA3154593	HEAD MARK	A17

NUT

PROOF LOAD TEST DATE: 22/02/2025

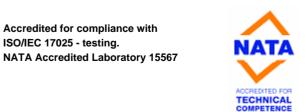
DESCRIPTION	Proof load testing of Nut to SOP 22-09, AS/NZS 1252	2.1 and ISO 898.2	TEST TEMP ° C
TEST METHOD	Proof load to ISO 898.2 and ISO 6892-1	26	
REQUIREMENTS	Minimum hold time 15 seconds - Minimum proof loa	d	411.20 kN
	PROOF LOAD (Kn)	NUT REMOVED BY FINGER	COMPLIANCE
SAMPLE 1	PASS	YES	COMPLIES
SAMPLE 2	PASS	YES	COMPLIES
SAMPLE 3	PASS	YES	COMPLIES

HARDNESS TEST DATE: 4/03/2025

	_													
DESCRIPTION														
TEST METHOD	Rockwell Hardness test using scale "C" from 98N to 147N by the methods of ASTM E18													
REQUIREMENTS	24 - 36 HRC	- 36 HRC												
	AVERAGE * COMPLIANCE SAMPLE AVERAGE * HARDNESS (HRC)													
SAMPLE 1	30	COMPLIES	SAMPLE 5	30	COMPLIES									
SAMPLE 2	29	COMPLIES	SAMPLE 6	30	COMPLIES									
SAMPLE 3	29	29 COMPLIES SAMPLE 7 32 COMPLIES												
SAMPLE 4	30	COMPLIES	SAMPLE 8	30	COMPLIES									

^{*} Average of 3 measurements per sample





TEST REPORT

TEST REPORT No: 56540-24200-824091142 DATE OF ISSUE: 15/01/2025

PRODUCT DETAILS

ITEM CODE	K08MG242001	DESCRIPTION	K0 8.8 STRUCT ASS GAL M24 X 200
BOLT HEAT No.	824091142	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	J22407955	JOB No.	56540
WASHER HEAT No.	HA3154593	HEAD MARK	A17

WASHER

HARDNESS TEST DATE: 4/03/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL	M24 X 200- AS/NZS 1252	2-2016											
TEST METHOD	Rockwell Hardness test u	sing scale "C" from 98N	to 147N by the methods	s of ASTM E18										
REQUIREMENTS	REQUIREMENTS 33 - 41 HRC													
	AVERAGE * HARDNESS (HRC)	COMPLIANCE	SAMPLE	AVERAGE * HARDNESS (HRC)	COMPLIANCE									
SAMPLE 1	33	COMPLIES	SAMPLE 5	33	COMPLIES									
SAMPLE 2	33	COMPLIES	SAMPLE 6	33	COMPLIES									
SAMPLE 3	34 COMPLIES SAMPLE 7 34 COMPLIES													
SAMPLE 4	34	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 TECHNICAL

Issue Date: 15/01/2025

> 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









Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Report number:	NBZJB202412165	Page 1 of 2
Receiving Date:	11, Dec., 2024	
Test Date:	13, Dec., 2024~16, 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	M24x200 8.8 HDG	Number of Sample(s)	3 PCS							
Dimension	M24x200	Class	Bolt class 8.8 Nut class 8							
Part Number	K08MG242001	PO No	56540-S							
TRACE No	1	Heat Treatment Lot number	/							
(Steel) Heat number	B:82	B:824091142 N:J22407955								

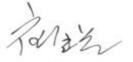
The information above is provided by the client. Our laboratory is not responsible for its authenticity







Approved by Manager





Test by Engineer







Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Re	port number:	NBZJB202412165				Page 2 of 2						
NO.	Test Items	Test Method	Requirement	-	Test Results	Item Conclusion						
			Bolt tension force ≥ 264 kN	1A	295.7 kN 270°	Pass						
	Assembly test	EN 14399-2:2015	Nut rotation	2A	301.5 kN 270°	Pass						
1			Degrees ≥ 270°	ЗА	302.3 kN 270°	Pass						
Equipment: Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000;												
	Validity Of Calibration: 2025.05.16											



THE END



	客户名称 Sold To	上海挚源商	贸有限公司											产品名称 Product		热轧盘	条 Hot	rolled	wirer	ods				
	收货单位 Consignee	上海挚源商	贸有限公司											と货编单 - elivery n		FB241	11510)11		证明书: Certifica		2411	15Q0	0703
	执行标准 Spec.	Q/320412 5003-2024	ZTG I	牌号 Grad	de	10B33			加工用 Purpo					客户编号 stomer i		02011	52			订单编 Order		02411151298		298
														户采购案 st Order						证明书 Issue [20241115		
	产许可证号 provalcerf No.			钢筋析 Bar Ma	示识 ark			-		-			Con	交货状态 d. Of Su _l	ş pply	热轧				车船· Train/Sh		苏GA	2712	
项次	轧制序号	炉号 Heat No.	尺寸及规格 产品尺寸			iption 重量						化学后 Chemical	成分 % l Analysis						*E09 总碳 深	*O01 冷顶 锻试				
Item No.	Lot No.	Heat No.	Product Siz		数量 件 Qty	里里 t Weight	C X10 ⁻²	Si X10 ⁻²	Mn X10 ⁻²	P X10 ⁻³	S X10 ⁻³	Cr X10 ⁻²	Ni X10 ⁻²	Cu X10 ⁻²	Mo X10 ⁻²	Al X10 ⁻³	Ti X10 ⁻³	B X10 ⁻⁴	一	牧 瓦				
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001	K2408230013	824080262	Φ2	24mm	2	4.797	32	6	79	13	2	18	1	3	0		31	21	0.13 0.12	OK OK OK				
001	K2410130035	824091142	Φ2	24mm	12	28.053	33	4	84	13	4	18	2	2	0	29	35	25	0.14	OK				
	***************************************		T	OTAL:	14	32.85																		
注释	*001=1/2; 外观、形状、尺 注:产品牌号以	寸和标识依据中 质量证明书为准	间检查记录判定	为合格 A	ACCOR	DING TO P	ROCESS	INSPEC	TION RE	CORD,V	ISUAL II	NSPECTI	ON(SUR	FACE&S	SHAPE)	AND CHI	CK OF I	OIMENSI	ON&MA	ARK: OK				
note	, • , , ,																							
CE	1、兹证明本表所 to certify that th	旅证明本表所列产品,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 striffy that the products described herein have been manufactured and tested with satisfactory results in accordance with the requirements be material specification. The aging time should be 12 days during November, December, January, February and March, and 7 days during DEVELOPMENT DEPARTMENT.																						
0038	the other month	S														DE	VELOI	PMENT	DEPA	ARTMEN	VT:	jι	idgme	nt
	2、品质证明书景 3、用户验收后信 qualifiedmateria	is. shark 作有效证明文件。The copy of this Certificate is invalid except stamped. 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 al(s) found in inspection on time, and keep the material(s) and the marking card.																						
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中天钢铁集团有限公司 地址:江苏省常州市中吴大道1号 热线:0519-88383868 传真:0519-88773074 中天钢铁集团(南通)有限公司 地址:江苏省南通市港东大道1号 热线:0513-52889999-5666 传真:0513-52887777



江苏沙钢集团有限公司

Jiangsu Shagang Group CO., LTD.

高速线材质量证明书

沙钢

High-speed Wire Rod Quality Certificate

SG03B-1914E

江苏省张家港市锦丰镇 邮编: 215625

Jinfeng, Zhangjiagang, Jiangsu, P. R. CHINA

TEL: (0512) 58568866, 58568829 FAX: (0512) 58550366, 58550818

単位CUS	TOMER			宁波办事例	止				用り	白代码	CUSTO	OMER C	CODE						合同号	CONTRA	ACT NO.		X	35D00010	022
号STEEL(GRADE	.(2	SWRCH45K					ł	是货单	号DEL	LIVERY	7	23061	1406100)2			发货日	期DATI	E OF DEL	LIVERY		2023061	6
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Made in China

CN-code 722790

We herewith confirm that no russian raw material was used



产品质量证明书

CERTIFICATE OF PRODUCT QUALI



宁波钢铁有限公司

Ningbo Iron & Steel Co.,Ltd 中国 宁波市北仑区復浦临港二路168号

No.168,Lingang 2 Road,Xiapu,Beilun District,Ningbo,China TEL: 86-574-86859187 FAX: 86-574-86859900-1750

H0299		L.	TO SERVICE OF THE	LL. 00-314-0003310	JI 17124. 00 374 0	0000000 1700
客户名称 SOLD TO	浙 商中拓集团股份有限公司		产品名称 PRODUCT	热轧钢卷 Hot Rolled Coil	_	
收货人名称 SEND TO	浙商中拓集团股份有限公司		应收凭单号码 AR. NO.	AR2310007003	证明书编号 CERTIFICATE NO.	231031H0299
标准	GB/T 711-2017; 45; 建议不露天储存	牌号 STEEL GRADE	客户编号 CUSTOMER NO.	00107531	订单编号 ORDER NO.	32N01222J
SPEC.		45	交运日期 SHIPPING DATE	2023/10/31	证明书日期 T/C ISSUE DATE	2023/10/31
检验 INSP.	NINGBOSTEEL MILL INSPECTION		客户采购案号 CUST. ORDER NO.		T/C	1/0

				尺寸及規	现格 MA	ATERIAL DESCRIPTION									YSIS %		拉伸试验 A01 G.L.=565S		备注
项次	产品序号	钢卷编号	熔炼号	厚度	宽度		数量	重量	С	Si	Mn	P	S	Cr	Ni	Cu	屈服 抗拉 YS TS Rm	伸长 率EL	
ITEM NO.	SLAB NO.	COIL NO.	HEAT NO.	THICK mm	mm	LENGTH mm	QIY	WEIGHT t	X10 ²	X10 ²	X10 ²	X10	3 X10 ³	X10	X10	X10 ²	N/mm ²	%	REMARK
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	VEYOR				<u> </u>	TOTAL:		21.840 GE LENGT		DE:									

SURVEYOR

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.