



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: 55818-16045-24D03952

DATE OF ISSUE: 08/04/2025

CERTIFICATE NUMBER: 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 8.8 STRUCTURAL ASSEMBLIES M16 x 45, job number 55818 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 M16 x 45, job number 55818 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: 55818-16045-24D03952 DATE OF ISSUE: 21/02/2025 HEAD No:

Product Information

CODE	K08MG160451	JOB NUMBER	55818
DESCRIPTION	K0 8.8 STRUCTURAL ASSEMBLIES M16 x 45	MANUFACTURE LOT QTY	4200
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	24D03952	0.42	0.73	0.018	0.006	0.0004
REQUIRED		0.58 max	0.25 min	0.060 max	0.150 max	N/A
NUT	B2-2404034-0	0.44	0.75	0.013	0.006	0.0003
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	23912748	0.42	0.73	0.018	0.006	0.0004

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	27.3-28.2	Hardness	24~36 HRC	27.5-28.7
Wedge Test 6 °	d <= 16mm 800MPa d > 16mm 830 MPa	924	Proof Stress (min)	1165 MPa	PASS
Yield	640 MPa	808	WASHER		
Proof Stress	d <= 16mm 580 MPa d > 16mm 600 MPa	PASS	Hardness	33~41 HRC	33.6-34.5

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	45.2-45.9	210	134	SAMPLE 1	>210	139
							SAMPLE 2	>210	141
							SAMPLE 3	>210	140
							SAMPLE 4	>210	144
							SAMPLE 5	>210	145

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	51.2-52.7	Bolt : BF 8.8 THREE RADIAL LINES
NUT	PASS	PASS	HDG	51.4-53.3	Nut : BF 8 THREE ARC LINES
WASHER	PASS	PASS	HDG	51.1-53.5	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: 55818-16045-24D03952

DATE OF ISSUE: 21/02/2025

PRODUCT DETAILS

ITEM CODE	K08MG160451	DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 45
BOLT HEAT No.	24D03952	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	B2-2404034-0	JOB No.	55818
WASHER HEAT No.	23912748	HEAD MARK	

BOLT

PROOF LOAD

TEST DATE: 2/04/2025

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			94.50 kN	23
	PROOF LOAD (Kn)	INITIAL LENGTH (mm)	FINAL LENGTH (mm)	CHANGE (mm)	COMPLIANCE
SAMPLE 1	PASS	43.94	43.95	0.01	COMPLIES
SAMPLE 2	PASS	44.31	44.32	0.00	COMPLIES
SAMPLE 3	PASS	44.13	44.14	0.01	COMPLIES

WEDGE LOAD TENSILE TEST

TEST DATE: 2/04/2025

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	800 MIN	130 MIN	6	THREAD	
SAMPLE 1	890	139.80	6	THREAD	COMPLIES
SAMPLE 2	894	140.40	6	THREAD	COMPLIES
SAMPLE 3	909	142.70	6	THREAD	COMPLIES

HARDNESS

TEST DATE: 3/04/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 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	28	COMPLIES	SAMPLE 5	29	COMPLIES
SAMPLE 2	28	COMPLIES	SAMPLE 6	30	COMPLIES
SAMPLE 3	27	COMPLIES	SAMPLE 7	28	COMPLIES
SAMPLE 4	28	COMPLIES	SAMPLE 8	27	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: 55818-16045-24D03952

DATE OF ISSUE: 21/02/2025

PRODUCT DETAILS

ITEM CODE	K08MG160451	DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 45
BOLT HEAT No.	24D03952	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	B2-2404034-0	JOB No.	55818
WASHER HEAT No.	23912748	HEAD MARK	

NUT

PROOF LOAD

TEST DATE: 1/04/2025

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		182.90 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: 3/04/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 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	30	COMPLIES	SAMPLE 5	27	COMPLIES
SAMPLE 2	29	COMPLIES	SAMPLE 6	27	COMPLIES
SAMPLE 3	28	COMPLIES	SAMPLE 7	27	COMPLIES
SAMPLE 4	27	COMPLIES	SAMPLE 8	27	COMPLIES

* Average of 3 measurements per sample



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TEST REPORT

TEST REPORT No: 55818-16045-24D03952

DATE OF ISSUE: 21/02/2025

PRODUCT DETAILS

ITEM CODE	K08MG160451	DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 X 45
BOLT HEAT No.	24D03952	MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.	B2-2404034-0	JOB No.	55818
WASHER HEAT No.	23912748	HEAD MARK	

WASHER

HARDNESS

TEST DATE: 3/04/2025

DESCRIPTION	K0 8.8 STRUCT ASS GAL M16 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	35	COMPLIES	SAMPLE 5	36	COMPLIES
SAMPLE 2	37	COMPLIES	SAMPLE 6	36	COMPLIES
SAMPLE 3	35	COMPLIES	SAMPLE 7	37	COMPLIES
SAMPLE 4	35	COMPLIES	SAMPLE 8	35	COMPLIES

* Average of 3 measurements per sample

Signed:


Afshin Mohammadiazar

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



Issue Date: 21/02/2025

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: NBZJB202412179

Page 1 of 2

Receiving Date:	11, Dec., 2024
Test Date:	12, Dec., 2024~12, 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	K0 8.8 STRUCT ASS GAL M16 X 45	Number of Sample(s)	3 PCS
Dimension	M16 X 45	Class	Bolt class 8.8 Nut class 8
Part Number	K08MG160451	PO No	55818
TRACE No	/	Heat Treatment Lot number	/
(Steel) Heat number	B:24D03952 N:B2-2404034-0		
The information above is provided by the client. Our laboratory is not responsible for its authenticity			



Approved by
Manager

Handwritten signature



Reviewed by
Engineer

Handwritten signature

Test by
Engineer

Handwritten signature



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检测
TESTING
CNAS L4800

Ningbo Zhongji Inspection of Machinery Parts Co.,Ltd

TEST REPORT

Report number: NBZJB202412179

Page 2 of 2

NO.	Test Items	Test Method	Requirement	Test Results		Item Conclusion
1	Assembly test	EN 14399-2:2015	Bolt tension force ≥ 117 kN Nut rotation Degrees ≥ 210°	1A	140.2 kN 210°	Pass
				2A	139.8 kN 210°	Pass
				3A	137.1 kN 210°	Pass
Equipment : Microcomputer controlled torsion tester; NBZJ/SB-Z-JC-110 WNJ-3000; Validity Of Calibration: 2025.5.16						





芜湖新兴铸管有限责任公司

产品质量证明书

NO. 20240531200231
地址: 芜湖市三山区春洲路2号



收货单位Purchaser 宁波日高金属精线材料有限公司 产品名称Name 冷镦冷挤压用钢热轧盘条
牌号Steel Grade ML40Cr 技术标准Specification Q/340208WHXX03-2020
车号Wagon No 4887474 发货日期Date of issuance 2024-05-31
交货状态Delivery status 热轧 尺寸规格Size specifications $\Phi 16\text{mm}$

序号 No.	批号 Batch number	炉号 Heat number	件数 Number	重量 Weight (t)	长度 Length	下屈服强度 Yeld Strength MPa	抗拉强度 Tensile Strength MPa	断后伸长率 Percentage of elongation A %	断面收缩率 Area Reduction %	1/2顶锻结果 hot_upset1/2	生产日期 Production Date	尺寸外形和表面质量 Dimensions and surface quality		
1	24502782	24D03952	27	61.001	0m	500,475	775,770	18,18	46,45	合格	24/05/28	合格		
2														
3														
序号 No.	化学成分										备注			
	C	Si	Mn	P	S	Cr	Ni	Cu	Al					
	%													
1	0.40	0.18	0.69	0.015	0.005	0.96	0.01	0.03	0.029					
2														
3														

注:1、建议春夏季于生产日期15天后使用,秋冬季于生产日期15天后使用。

2、有异议时,来函注明钢号、批号、规格、发货日期、原因,并妥善保管好,联系电话:0553-5627535。

安徽恒信钢铁有限公司

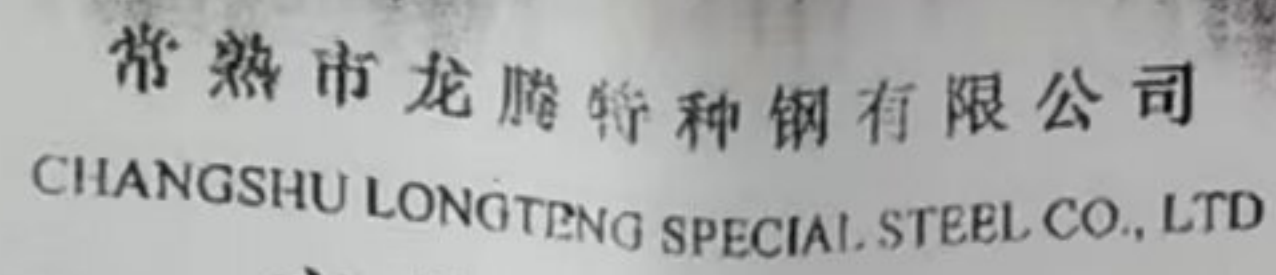
质保书专用章

总件数: 27

运输计划号: WS2024060052405003

制单人: 许鹏飞 审核人: 徐琨

产品质量证明书编号



产品质量证明书

MILL TEST CERTIFICATE

订货单位:宁波富林金属材料有限公司(高线)

Purchaser:

产品名称: 热轧圆盘条

Product Name:

产品执行标准:LTZ2408-2023-9

Dimensional Standard:

质保书编号: T24110200098

Certificate No.

日期: 2024年11月02日

Date: _____

[illegible]

综合判断	Final Result
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合格
Pass

备注 Notes:

1. 交货状态 (Condition of supply): 热轧 (hot rolled)
2. 表面及外形尺寸 (Surface and size): 合格 (Qualified)
3. 无质量证明书专用印记无效。Invalid without Seal.
4. 如果有什么异议请及时告知批号、牌号, 保留实物并通知我公司, 当 there is any complain, you kindly keep the materials.

质量检验负责人: Chief

地址: 江苏省常熟市梅李镇通海工业园华联路118号
Add: No. 118, Huailian Rd., Tonghai Industrial Park, Meili Town, Wuxi City, Jiangsu Province, China



质量证明书

MILL TEST CERTIFICATE

钢号:	N45DP
Steel Grade	
产品名称:	优质碳素结构钢
Product	Quality Carbon Structural Steels
交货状态:	热轧
Condition	As-rolled
技术条件:	Q/320116 NJGT 402-2022 ; N45DP SPEC.

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

证明书记号: 230826H00475
Certificate No.

订单号: OS423080033
ORDER NO.

发货通知单号: FS42308250005
Reference No.

许可证号:
License No.

[illegible][illegible]

说明 Remarks	硬度=布氏硬度HBW10/3000
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外观和尺寸检验均合格 VISUAL INSPECTION(SURFACE) AND DIMENSION CHECK OK 注: 产品牌号以质量证明书为准

备注
Notes

1、兹证明本文所列产品，均依材料标准制造及试验，并符合标准及订单技术要求，不含有放射性。
We hereby certify that the products in this MTC are manufactured and tested in accordance with the specification, meet the standards and technical requirements in the order, and do not contain radiation elements.



质量负责人 Principal: 李强

签发人 Signature:

签发日期 Issue Date: 2023/08/26

质量记录编号: JL100508/C