

Bremick Pty Ltd

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ATTESTATION OF PRODUCT CONFORMITY**TEST REPORT NUMBER:** 56540-1200W-N312303**DATE OF ISSUE:** 28/01/2025**CERTIFICATE NUMBER:** 00120Q31689R6M/3302

Bremick Fasteners manufactured K0 STRUCTURAL FLAT WASHERS M12, 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 STRUCTURAL FLAT WASHERS M12, 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

Structural Assembly K0 Range

TEST REPORT No: 56540-1200W-N312303 DATE OF ISSUE: 28/01/2025 HEAD No:

Product Information

CODE	WK0MG1200W2	JOB NUMBER	56540
DESCRIPTION	K0 STRUCT WASHERS GAL M12	MANUFACTURE LOT QTY	48000
STANDARD	AS 1252.1-2016	TEST QTY	0
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		N/A	N/A	N/A	N/A	N/A
BOLT	N/A	N/A	N/A	N/A	N/A	N/A
REQUIRED		N/A	N/A	N/A	N/A	N/A
NUT	N/A	N/A	N/A	N/A	N/A	N/A
REQUIRED		N/A	N/A	N/A	N/A	N/A
WASHER	N312303	0.44	0.75	0.016	0.008	N/A

Mechanical Properties Tested to AS/NZS1252.1-2016 Table B1

BOLT			NUT		
TEST	REQUIREMENT	RESULT	TEST	REQUIREMENT	RESULT
Hardness	N/A	N/A	Hardness	N/A	N/A
Wedge Test	N/A	N/A	Proof Stress (min)	N/A	N/A
Yield	N/A	N/A	WASHER		
Proof Stress	N/A	N/A	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)
N/A	N/A	N/A	N/A	N/A			SAMPLE 1	N/A	N/A
							SAMPLE 2	N/A	N/A
							SAMPLE 3	N/A	N/A
							SAMPLE 4	N/A	N/A
							SAMPLE 5	N/A	N/A

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	N/A	N/A	HDG	N/A	N/A
NUT	N/A	N/A	HDG	N/A	N/A
WASHER	PASS	PASS	HDG	64	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: 56540-1200W-N312303

DATE OF ISSUE: 28/01/2025

PRODUCT DETAILS

ITEM CODE	WK0MG1200W2	DESCRIPTION	K0 STRUCT WASHERS GAL M12
BOLT HEAT No.		MATERIAL STANDARD	AS/NZS 1252-2016
NUT HEAT No.		JOB No.	56540
WASHER HEAT No.	N312303	HEAD MARK	

WASHER

HARDNESS

TEST DATE: 3/04/2025

DESCRIPTION	K0 STRUCT WASHERS GAL M12- 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	33	COMPLIES
SAMPLE 2	33	COMPLIES	SAMPLE 6	33	COMPLIES
SAMPLE 3	33	COMPLIES	SAMPLE 7	34	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:

28/01/2025

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



M5/M7 Logistics Park, Warehouse 4B, 290 Kurrajong Road, Prestons NSW 2170



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.	NINGBOSTEEL 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 σ_b 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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