

Build it better with  
**BREMICK®**

# WASHERS

BUILDING PRODUCT  
INFORMATION  
SHEET

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## 1.1 Product class

**Class 1: Batch or mass-produced products** <sup>1</sup>

## 1.2 Product name

Product Category - Bremick Washers

## 1.3 Product description and its intended use

Washers for interior and exterior use in all NZS 3604 Exposure Zones and environments, subject to type, size and material selection.

## 1.4 Product identifier (if applicable)

Refer to Appendix for unique product listing

## 1.5 Place manufactured (New Zealand or overseas)

Manufactured overseas to strict Bremick specifications.

## 1.6 Relevant Building Code clauses

B1 Structure	Performance clauses B1.3.1, B1.3.2, B1.3.3 and B1.3.4
B2 Durability	Performance clauses B2.3.1 a) and B2.3.1 b)
C3 Fire Affecting Area Beyond the Source	Performance clause C3.7 a)
C6 Structural Stability	Performance clause C6.2
F2 Hazardous Building Materials	Performance clause F2.3.1

### **B1 Structure - B1.3.1, B1.3.2, B1.3.3 and B1.3.4**

- *Fixings/fasteners contribute to the structural integrity of building elements. Compliance demonstrated through design to NZS 3604 and Specific Engineered Design.*

#### Compliance Pathway

##### Buildings up to 3 storeys ≤10m in height

Compliance demonstrated through design to NZS 3604.

##### Buildings >10m in height

Specific Engineered Design. Refer also to BPIR Product Review - Structural Bolt Assemblies.

### **B2 Durability**

- *B2.3.1 a) 50 years - where used to fix structural or difficult to replace elements*
- *B2.3.1 b) 15 years - where used to fix non-structural or moderately difficult to replace building elements*

*304 Stainless steel, 316 Stainless steel and Hot-dipped galvanised washers (to AS/NZS 4680) achieve 15 and 50 year durability, subject to Exposure Zone and Environment. Other finishes suitable for interior use only with the exception of corrosive internal environments.*

#### Compliance Pathway

##### Buildings up to 3 storeys ≤10m in height

Compliance demonstrated through material selection to NZS 3604:

- Table 4.1 - Protection required for steel fixings and fastenings excluding nails and screws
- Table 4.2 - Galvanising of steel components other than nails and screws

Galvanising to:

AS/NZS 4680 - Hot-dip galvanised (zinc) coatings on fabricated ferrous articles  
600g/m<sup>2</sup> average

*Type 304 stainless steel is sufficient to comply with NZBC requirements, but may have surface rust. 316 Stainless steel exceeds the requirements of the NZBC.*

##### Buildings >10m in height

Specific Engineered Design. Also refer to BPIR Product Review - Structural Bolt Assemblies.



### **C3 Fire Affecting Area Beyond the Source - C3.7 a)**

- Washers are manufactured from non-combustible materials, as defined in NZBC C/AS2.

#### Compliance Pathway

##### NZBC C/AS2:

*External wall cladding systems for multi-level buildings with a building height  $\geq 25$  m*

*5.8.4 The entire external wall cladding system shall be:*

*a) **Non-combustible** or limited combustible materials*

Non-combustible is defined in NZBC C/AS2 as:

*Material either -*

*a) composed entirely of glass, concrete, steel, brick/block, ceramic tile, or aluminium; or*

*b) classified as non-combustible when tested to AS 1530.1; or*

*c) classified as A1 in accordance with BS EN 13501-1.*

### **C6 Structural Stability - C6.2**

- Washers are manufactured from non-combustible materials, as defined in NZBC C/AS2.

#### Compliance Pathway

Fixings/fasteners contribute to the structural integrity of building elements/structural systems.

##### Buildings up to 3 storeys $\leq 10$ m in height

Compliance demonstrated through design to NZS 3604.

##### Buildings $> 10$ m in height

Specific Engineered Design. Also refer to BPIR Product Review - Structural Bolt Assemblies.

### **F2 Hazardous Building Materials - F2.3.1**

- Washers are manufactured from non-toxic / safe to handle materials.

## 1.8 Limitations on the use of the building product

- For interior and exterior use in all NZS 3604 Exposure Zones and Wind Zones subject to material selection.

## 1.9 Design requirements that would support the appropriate use of the building product

- Buildings designed to NZS 3604 Timber-framed buildings or Specific Engineered Design.

## 1.10 Installation requirements

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1. Select washer to match the diameter of the bolt, set screw or threaded rod
2. Position washer under the bolt head or nut prior to assembly/tightening
3. Tighten threaded fastener as required ensuring the washer is firmly seated against the fixture, bolt head or nut

## 1.11 Maintenance requirements

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- Stainless steel - Periodic cleaning in accordance with Bremick guidance.
- Periodically inspect the fastener for corrosion.

## 1.12 Building Act 2004 section 26 compliance

Is the building product/building product line subject to warning or ban under [section 26 of the Building Act 2004](#)?

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No

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- Periodically inspect the fastener for corrosion.

## 1.12 Building Act 2004 section 26 compliance

Is the building product/building product line subject to warning or ban under [section 26 of the Building Act 2004](#)?

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No

<b>EPDM FLAT SQUARE WASHER</b>
WSQME125036
WSQME165036
<b>FLAT SQUARE WASHER GAL</b>
WSQMG105036
WSQMG125032
WSQMG125036
WSQMG125066
WSQMG165036
WSQMG165052
WSQMG165066
WSQMG166552
WSQMG205036
WSQMG205062
<b>FLAT SQUARE WASHER SS304/316</b>
WSQM4125034
WSQM4165034
WSQM6105034
WSQM6125032
WSQM6125034
WSQM6165034
WSQM6205034
<b>FLAT WASHER SS304/316</b>
WFRI405H0W2
WFRI405H0W2
WFRI405X0W2
WFRI406E0W2
WFRI406H0W2
WFRI406M0W2
WFRI406V0W2
WFRI406X0W2
WFRI408H0W2
WFRI408L0W2
WFRI408M0W2
WFRI408X0W2
WFRI410H0W2
WFRI410M0W2
WFRI412L0W2
WFRI412M0W2
WFRI420L0W2

WFRI605L0W2
WFRI605X0W2
WFRI606H0W2
WFRI606M0W2
WFRI606S0W2
WFRI606V0W2
WFRI606X0W2
WFRI608M0W2
WFRI608X0W2
WFRI610H0W2
WFRI610M0W2
WFRI612L0W2
WFRI612M0W2
WFRM403M0W2
WFRM404M0W2
WFRM405M0W2
WFRM406M0W2
WFRM408M0W2
WFRM410M0W2
WFRM412M0W2
WFRM416M0W2
WFRM420M0W2
WFRM424M0W2
WFRM604M0W2
WFRM605M0W2
WFRM605M0W4
WFRM6061252
WFRM606M0W2
WFRM606M0W4
WFRM6081252
WFRM608M0W2
WFRM608M0W4
WFRM6101252
WFRM610M0W2
WFRM6121252
WFRM61260W6
WFRM612M0W2
WFRM6161252
WFRM6163042
WFRM616M0W2
WFRM6201252
WFRM6204042
WFRM620M0W2

WFRM624M0W2
WFRM630M0W2
<b>GRADE 8 WASHERS</b>
W80IY0600P2
W80IY0800P2
W80IY1000P2
W80IY1100P2
W80IY1200P2
W80IY1400P2
W80IY1600P2
W80IY2000P2
W80IY2200P2
W80IY2400P2
<b>HIGH TENSILE WASHER - METRIC</b>
W80MP1600P2
<b>MILD STEEL RND WASHER</b>
WFRIZ0500P4
WFRIZ0600P4
WFRIZ0800P4
WFRMG061936
WFRMG082136
WFRMG1000P2
WFRMG1000P6
WFRMG102436
WFRMG1200P2
WFRMG122836
WFRMG1260P6
WFRMG1600P2
WFRMG163436
WFRMG2000P6
WFRMG2400P2
WFRMZ0600P6
WFRMZ0800P2
WFRMZ0800P6
WFRMZ1000P2
WFRMZ1000P4
WFRMZ1000P6
WFRMZ102372
WFRMZ1200P2
WFRMZ1200P6
WFRMZ1600P2
WMAIZ0400P4

WMGIZ0500P6
WMGIZ0600P4
WMGIZ0600P6
WMGIZ0800P4
WMGIZ0800P6
WMGIZ1000P6
<b>SPRING WASHER</b>
WSPMG06MFW6
WSPMG08MFW6
WSPMG10MFW2
WSPMG10MFW6
WSPMG12MFW2
WSPMG12MFW6
WSPMG16MFW2
WSPMZ05MFW6
WSPMZ06MFW2
WSPMZ06MFW6
WSPMZ08MFW2
WSPMZ08MFW6
WSPMZ10MFW2
WSPMZ10MFW6
WSPMZ12MFW6
WSPMZ16MFW2
WSPMZ20MFW2
<b>SPRING WASHER SS304/316</b>
WSPI408M0W2
WSPI605M0W2
WSPI606M0W2
WSPI610M0W2
WSPI611M0W2
WSPM403M0W2
WSPM404M0W2
WSPM405M0W2
WSPM406M0W2
WSPM408M0W2
WSPM410M0W2
WSPM412M0W2
WSPM416M0W2
WSPM604M0W2
WSPM605M0W2
WSPM605M0W4
WSPM606M0W2

WSPM606M0W4
WSPM608M0W2
WSPM608M0W4
WSPM610M0W2
WSPM612M0W2
WSPM616M0W2
WSPM620M0W2
WSPM624M0W2



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