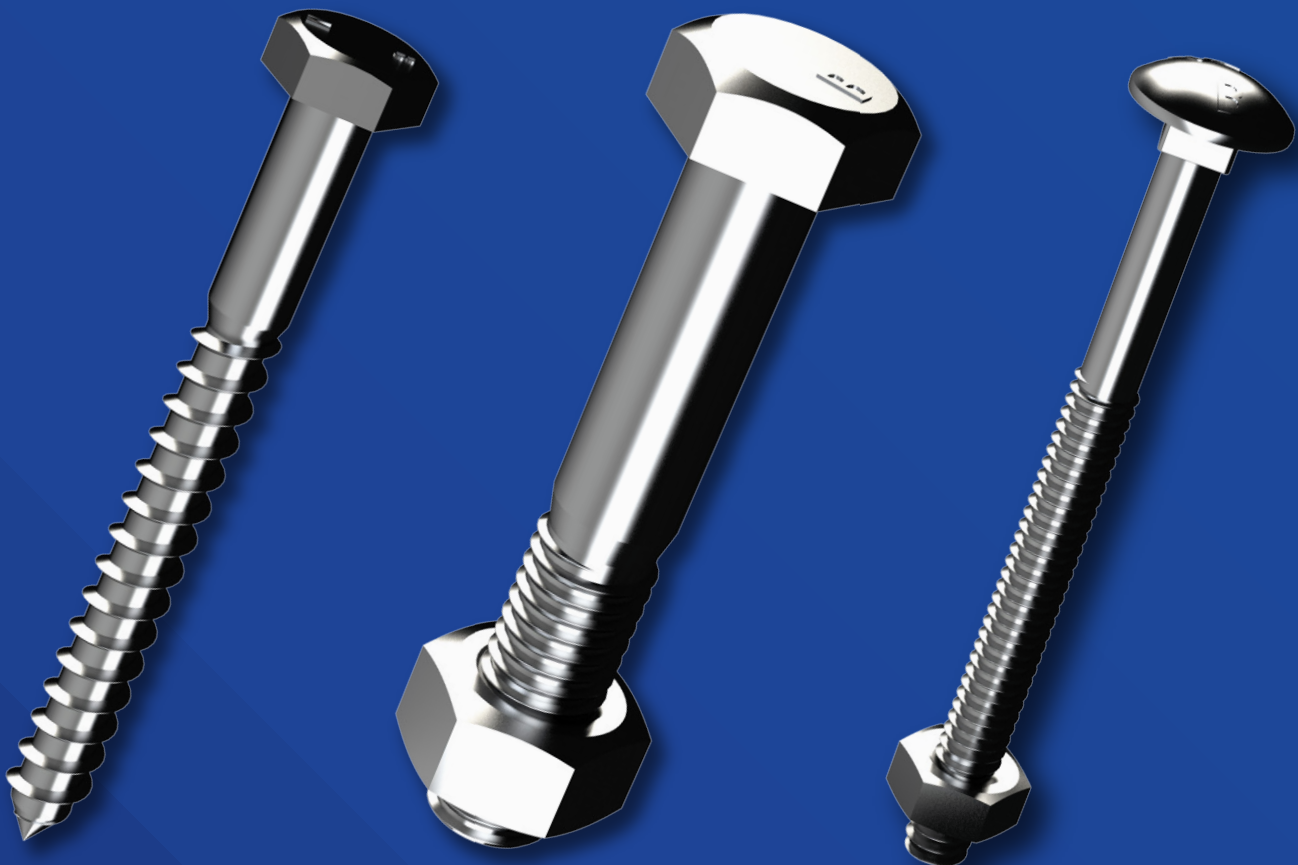


Build it better with  
**BREMICK®**

# BOLTS

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 Bolts

## 1.3 Product description and its intended use

Bolts, set screws and coach screws 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 Bolts (to AS 1214 and 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 1214 - Hot-dip galvanised coatings on threaded fasteners (ISO metric coarse thread series)

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)**

- Bolts 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**

- Bolts 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**

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

#### Compliance Pathway

Assumption has been made that all materials and coatings are non-toxic / safe to handle. Please confirm. Are there Material Safety Data Sheets that can be referenced?

## 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

#### **Hex Bolts**

1. Aligned two pieces of material and mark location of fastener
2. Drill an appropriate sized clearance hole
3. Place bolt into hole and hammer head into position
4. Place nut on end of bolt and tighten with an appropriate sized spanner until sufficient clamping force is obtained or specified torque achieved. DO NOT OVER TIGHTEN
5. For additional connection strength use a washer between the nut/head and the material

#### **Coach Bolts**

1. Aligned two pieces of material and mark location of fastener
2. Drill an appropriate sized clearance hole
3. Place bolt into hole and hammer head until square neck locks into position
4. Place nut on end of bolt and tighten with an appropriate sized spanner until sufficient clamping force is obtained or specified torque achieved. DO NOT OVER TIGHTEN
5. For additional connection strength use a washer between the material and the nut

#### **Coach Screws**

1. Aligned two pieces of material and mark location of fastener
2. Drill an appropriate sized pilot hole
3. Attach spanner or socket to head of the coach screw and drive until the head is seated
4. For additional connection strength place a washer under the head prior to fastening

### 1.11 Maintenance requirements

- 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](#)?

No

<b>COACH SCREW GAL</b>
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SCSMG060404
SCSMG060504
SCSMG060604
SCSMG060654
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<b>RAG BOLT ZINC/GAL</b>
BRAMG121503
BRAMG122003
BRAMG122503



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