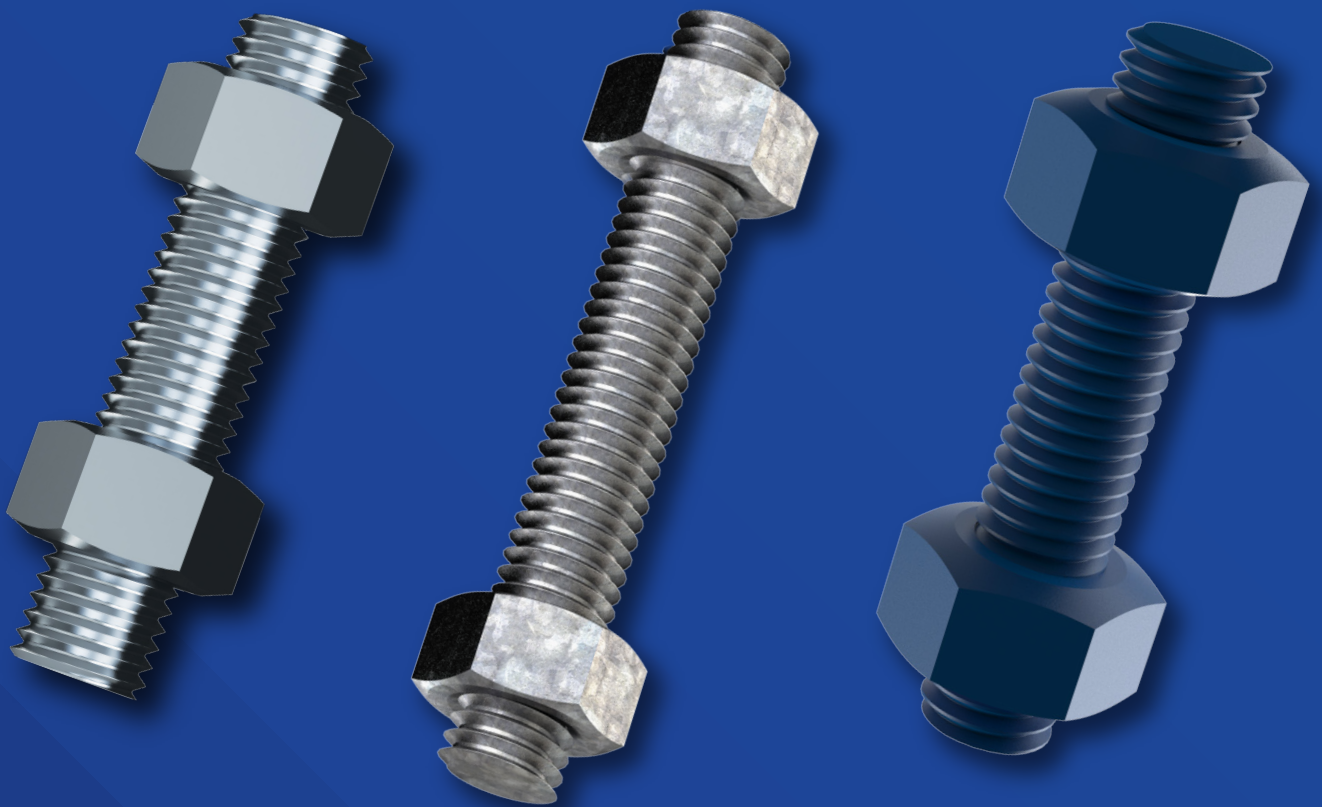


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**BREMICK**<sup>®</sup>

# STUD 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 Stud Bolts

## 1.3 Product description and its intended use

Stud bolts 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 Pathway

Buildings up to 3 storeys ≤10m in height

Compliance demonstrated through design to NZS 3604.

Buildings >10m in height

Specific Engineered Design.

**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 stud 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

Galvanizing 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.*

NZS 3101 (threaded rod as cast-in anchors):

Galvanising to:

AS 1214 - Hot-dip galvanised coatings on threaded fasteners (ISO metric coarse thread series)

Buildings >10m in height

Specific Engineered Design.

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

- Stud bolts manufactured from non-combustible materials, as defined in NZBC C/AS2.

Compliance Pathway

NZBC C/AS2:

*External wall cladding materials*

*5.8.1 Where external walls are located less than 1.0 m from a relevant boundary, cladding materials shall be:*

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

*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**

- Stud bolts 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.

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

- Stud bolts manufactured from non-toxic / safe to handle materials.

## 1.8 Limitations on the use of the building product

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

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

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

## 1.10 Installation requirements

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1. Align fixture holes and insert stud bolt through both holes
2. Apply nuts to either end of the stud bolt and using an appropriate sized socket or wrench rotate the nut until sufficient clamping force is obtained or specified torque achieved. DO NOT OVER TIGHTEN
3. For additional connection strength use a washer between the fixture and the nuts

## 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

<b>B7 STUD BOLTS &amp; B7 BAR</b>
B7SCP160901
B7SCY160801
B7SCY160901
B7SCY201101
B7SCY201251



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