

THREADED ROD

BUILDING PRODUCT INFORMATION SHEET



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1.1 Product class

Class 1: Batch or mass-produced products 1

1.2 Product name

Product Category - Bremick Threaded Rod

1.3 Product description and its intended use

Threaded rod 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, NZS 3101 and Specific Engineered Design.

Compliance Pathway

Buildings up to 3 storeys ≤10m in height

Compliance demonstrated through design to NZS 3604 and NZS 3101 (threaded rod as cast-in anchors).

Buildings >10m in height

To NZS 3101 and 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 Threaded rod (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 $600g/m^2$ 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

NZS 3101 and Specific Engineered Design.

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

• Threaded rod 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

Threaded rod 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 ≤10m in height

Compliance demonstrated through design to NZS 3604 and NZS 3101.

Buildings >10m in height

NZS 3101 and Specific Engineered Design.

F2 Hazardous Building Materials - F2.3.1

• Threaded rod 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 environment 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

- 1. Insert threaded rod through fixture hole
- 2. Apply nuts to either end of the threaded rod 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 material and the nut

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

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THREADED ROD

Product codes



THREADED ROD BSW ZNC

RTRWZ120032

THREADED ROD G8.8 GAL

R88MG121002

R88MG121006

R88MG161002

R88MG161006

R88MG201002

R88MG201006

R88MG241002

R88MG301002

THREADED ROD G8.8 PLAIN

R88MP121002

R88MP161002

R88MP201002

R88MP241002

R88MP301002

THREADED ROD ISO ZINC/GAL

RTRMG081006

RTRMG101002

RTRMG101006

RTRMG101806

RTRMG121002

RTRMG121006

RTRMG121806

RTRMG123002

RTRMG161002

RTRMG161006

RTRMG161806

RTRMG201002

RTRMG201006

RTRMG241002

RTRMG301002

RTRMZ051002

RTRMZ061002

RTRMZ081002

RTRMZ081006

RTRMZ101002

RTRMZ101006

RTRMZ101806

RTRMZ121002

RTRMZ121006

RTRMZ121806

RTRMZ161002

RTRMZ161006

RTRMZ201002

RTRMZ241002

RTRMZ301002

THREADED ROD SS304/316

RTRC6080002

RTRM4050002

RTRM4060002

RTRM4080002

RTRM4100002

RTRM4120002

RTRM4120006

RTRM4160002

RTRM4160006

RTRM4200002 RTRM4240002

RTRM6030002

RTRM6040002

RTRM6060002

RTRM6060006

RTRM6080002

RTRM6080006

RTRM6100002 RTRM6100006

RTRM6120002

RTRM6120006

RTRM6121806

RTRM6160002

RTRM6160006

RTRM6200002

RTRM6200006

RTRM6240002



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