

STRUCTURAL BOLT ASSEMBLIES

BUILDING PRODUCT INFORMATION SHEET



Contents

1.1 Product class	3
1.2 Product name	
1.3 Product description and its intended use	
1.4 Product identifier (if applicable)	
1.5 Place manufactured (New Zealand or overseas)	
1.6 Relevant Building Code clauses	3
1.7 Statement of how the building product is expected to contribute to compliance	4
1.8 Limitations on the use of the building product	5
1.9 Design requirements that would support the appropriate use of the building product	5
1.10 Installation requirements	5
1.11 Maintenance requirements	6
1.12 Building Act 2004 section 26 compliance	
Appendix: Bremick Product Codes	7

1.1 Product class

Class 1: Batch or mass-produced products 1

1.2 Product name

Product Category - Bremick Structural Bolt Assemblies

1.3 Product description and its intended use

Hot-dipped galvanised Structural bolt assemblies including bolt, washer and nut, suitable for interior and exterior use subject to exposure conditions.

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 clause B2.3.1 a)
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

• Structural bolt assemblies contribute to the structural integrity of building elements. Compliance demonstrated through relevant bolt design standards and Specific Engineered Design to NZS 3404.

Compliance Pathway

Buildings >10m in height

Specific Engineered Design, to:

- NZS 3404 Steel structures standard
 - Relevant bolt design standards:
 - o AS 1110 ISO metric hexagon bolts and screws Product grades A and B Bolts
 - o AS 1111 ISO metric hexagon bolts and screws Product grade C Bolts
 - AS/NZS 1252 High-strength steel fastener assemblies for structural engineering Bolts, nuts and washers
 - $_{\circ}$ AS 1559 Hot-dip galvanised steel bolts and associated nuts and washers for tower construction

B2 Durability

• B2.3.1 a) 50 years - where used to fix structural or difficult to replace elements

Structural bolt assemblies hot-dipped galvanized to AS 1214 achieve 50 year durability, subject to exposure conditions.

Compliance Pathway

Buildings >10m in height

Specific Engineered Design to:

- NZS 3404 Steel structures standard
 - AS/NZS 1252 High-strength steel fastener assemblies for structural engineering Bolts, nuts and washers
 - o AS 1559 Hot-dip galvanised steel bolts and associated nuts and washers for tower construction
 - AS 1214 Hot-dip galvanised coatings on threaded fasteners (ISO metric coarse thread series)
- SNZ TS 3404 Durability requirements for steel structures and components

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

• Structural bolt assemblies 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 ≥ 25 m

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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

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

Compliance Pathway

Buildings >10m in height

Specific Engineered Design to:

• NZS 3404 Steel structures standard

F2 Hazardous Building Materials - F2.3.1

• Structural bolt assemblies are manufactured from non-toxic / safe to handle materials.

1.8 Limitations on the use of the building product

• Suitable for interior and exterior use subject to exposure conditions and material selection.

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

Buildings designed to NZS 3404 Steel Structures Standard and Specific Engineered Design.

1.10 Installation requirements

- 1. Insert bolt and washer component of the Structural Assembly through fixture hole
- Place nut component of the Structural Assembly on the end of structural bolt and tighten with an appropriate sized spanner until sufficient clamping force is obtained or specified torque achieved. DO NOT OVER TIGHTEN

1.11 Maintenance requirements

- In accordance with Bremick guidances.
- 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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STRUCTURAL BOLT ASSEMBLIES

Product codes



KO 8.8 STRUCTURAL
ASSEMBLIES

K08MG120351 K08MG120401

K08MG120451

K08MG120501

K08MG120601

K08MG120801

K08MG160401

K08MG160451

K08MG160501

K08MG160551

K08MG160601

K08MG160651

K08MG160701

K08MG160751

K08MG160901

K08MG161001

K08MG161201

K08MG161301

K08MG200401

K08MG200451

K08MG200501 K08MG200551

K08MG200601

K08MG200651

K08MG200701

K08MG200751

K08MG200801

K08MG200851 K08MG200901

K08MG201001

K08MG201101

K08MG201201

K08MG201301

K08MG201501

K08MG201801

K08MG202001

K08MG202201

K08MG203001

K08MG240551

K08MG240651

K08MG240701

K08MG240751

K08MG240801

K08MG240851

K08MG240901

K08MG241001

K08MG241201

K08MG241301

K08MG241401

K08MG242001

K08MG242801

K08MG243001 K08MG301001

K08MG301101

K08MG301201

K08MG301401

K08MG301501

K08MG301601

K08MG361201

K08MG361501

STRUCTURAL ASSEMBLY

BSAMG120301

BSAMG120351

BSAMG120401

BSAMG120451

BSAMG120501

BSAMG120601

BSAMG120701

BSAMG120801

BSAMG120901

BSAMG121001

BSAMG121201

BSAMG160401

BSAMG160451

BSAMG160501 BSAMG160551

BSAMG160601

BSAMG160651

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BSAMG160701

BSAMG160751

BSAMG160801

BSAMG160901

BSAMG161001

BSAMG161101

BSAMG161201

BSAMG161301

BSAMG161401

BSAMG161501

BSAMG161601

BSAMG161801

BSAMG162001

BSAMG200401

BSAMG200451

BSAMG200501

BSAMG200551

BSAMG200601 BSAMG200651

BSAMG200701

BSAMG200751

BSAMG200801

BSAMG200851

BSAMG200901

BSAMG201001

BSAMG201101

BSAMG201201 BSAMG201301

BSAMG201401

BSAMG201501

BSAMG201601 BSAMG201801

BSAMG202001

BSAMG202201 BSAMG202401 BSAMG202601 BSAMG202801

BSAMG203001

BSAMG240501

D3AIVIG240301

BSAMG240551

BSAMG240601

BSAMG240651

BSAMG240701

BSAMG240751

BSAMG240801

BSAMG240851

BSAMG240901 BSAMG241001

BSAMG241101

BSAMG241201

BSAMG241401 BSAMG241501

BSAMG241601

BSAMG242201 BSAMG242601

BSAMG300751

BSAMG300801 BSAMG300851

BSAMG300901

BSAMG301001 BSAMG301101

BSAMG301201

BSAMG301301 BSAMG301401

BSAMG301501

BSAMG361001 BSAMG361101

BSAMG361201

BSAMG361301

STRUCTURAL ISO NUT
NSTMG1200N2
NSTMG1600N2
NSTMG2000N2
NSTMG2400N2
NSTMG3000N2
NSTMG3600N2
STRUCTURAL ISO WASHER
WASHER
WASHER WSTMG1200W2
WASHER WSTMG1200W2 WSTMG1600W2
WASHER WSTMG1200W2 WSTMG1600W2 WSTMG2000W2



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