

Build it better with
BREMICK®

SOCKET & SET SCREWS

BUILDING PRODUCT
INFORMATION
SHEET



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1.1 Product class

Class 1: Batch or mass-produced products

1.2 Product name

Product Category - Bremick Socket & Set Screws

1.3 Product description and its intended use

Socket & Set 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

1.7 Statement of how the building product is expected to contribute to compliance

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/m² 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 ≥ 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 ≤ 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.

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

1. Choose a set screw/socket screw and nut of an appropriate diameter
2. Choose a set screw/socket screw length to ensure there is at least 19mm of shank protruding through the pre-drilled materials being fastened
3. Insert set screw/socket screw through predrilled hole and attach nut
4. Using a wrench or Hexagonal Socket, tighten bolt head until an appropriate clamping force is obtained or specified torque achieved. DO NOT OVER TIGHTEN

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

SOCKETS & SET SCREWS

Product codes

BREMICK®

BUTTON HEAD SOCKET SCREW	SBHM4080352	SFHM4100302	S88MZ080162
SBHMP050122	SBHM4080402	SFHM4100402	S88MZ080202
SBHBMZ040202	SBHM4080502	SFHM4100502	S88MZ080252
SBHBMZ060252	SBHM4100162	SFHM6040162	S88MZ080302
SBHBMZ080252	SBHM4100202	SFHM6050122	S88MZ080352
SBHBMZ100702	SBHM4100252	SFHM6050202	S88MZ080402
BUTTON HEAD SOCKET SCREW SS304	SBHM4100302	SFHM6050302	S88MZ080502
SBHM4040082	SBHM4100402	SFHM6060122	S88MZ100162
SBHM4040102	SBHM4120302	SFHM6060162	S88MZ100202
SBHM4040122	FLAT HEAD SOCKET SCREW	SFHM6060202	S88MZ100252
SBHM4040162	SFHMP060202	SFHM6060252	S88MZ100302
SBHM4040202	SFHMP080302	SFHM6060302	S88MZ100352
SBHM4040252	FLAT HEAD SOCKET SS304/316	SFHM6060402	S88MZ100402
SBHM4050082	SFHM4040102	SFHM6080202	S88MZ100502
SBHM4050102	SFHM4040162	SFHM6080302	S88MZ100702
SBHM4050122	SFHM4040202	G2 BSW SET SCREW	S88MZ120202
SBHM4050162	SFHM4040252	S20WZ121002	S88MZ120252
SBHM4050202	SFHM4050102	S20WZ122002	S88MZ120302
SBHM4050252	SFHM4050122	G4.6 ISO SET SCREW	S88MZ120352
SBHM4050302	SFHM4050162	S46MZ060122	S88MZ120402
SBHM4050352	SFHM4050202	S46MZ060162	S88MZ120452
SBHM4050402	SFHM4050402	S46MZ060202	S88MZ120502
SBHM4060102	SFHM4060102	S46MZ080202	S88MZ120602
SBHM4060122	SFHM4060122	S46MZ080252	S88MZ120752
SBHM4060162	SFHM4060162	S46MZ080402	S88MZ160302
SBHM4060202	SFHM4060202	S46MZ100302	S88MZ160402
SBHM4060252	SFHM4060252	S46MZ100402	S88MZ160452
SBHM4060302	SFHM4060302	S46MZ100752	S88MZ160502
SBHM4060352	SFHM4060352	S46MZ120402	S88MZ160602
SBHM4060402	SFHM4060402	G8.8 ISO SET SCREW	S88MZ160752
SBHM4060502	SFHM4060502	S88MZ060122	SET SCREW IMPERIAL SS304/316
SBHM4080122	SFHM4080202	S88MZ060162	SHHC4061002
SBHM4080162	SFHM4080252	S88MZ060202	SHHC4081002
SBHM4080202	SFHM4080302	S88MZ060252	SHHC6081002
SBHM4080252	SFHM4080402	S88MZ060302	SET SCREW METRIC SS304/316
SBHM4080302	SFHM4080502	S88MZ060402	SHHM4050162
		S88MZ060502	

SHHM4050202
SHHM4050252
SHHM4050502
SHHM4060122
SHHM4060162
SHHM4060202
SHHM4060252
SHHM4060302
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SHHM4060402
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SHHM6060653
SHHM6060753
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SHHM6080502
SHHM6080552
SHHM6080602
SHHM6080702
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SHHM6120252

SHHM6120302
SHHM6120352
SHHM6120402
SHHM6120502
SHHM6120602
SHHM6160352
SHHM6160402
SHHM6160502
SHHM6200402
SHHM6200502
SOCKET HEAD CAP SCREW
SSCMP030202
SSCMP060102
SSCMP060252
SSCMP060402
SSCMP080252
SSCMP080302
SSCMP080402
SSCMP100302
SSCMP120502
SSCMP160352
SSCMP200602
SSCMP202202
SSCMZ060202
SSCMZ100402
SSCMZ120202
SOCKET HEAD CAP SCREW SS304/316
SSCM4030082
SSCM4030122
SSCM4030162
SSCM4030252
SSCM4040122
SSCM4040162
SSCM4040202
SSCM4050102
SSCM4050122
SSCM4050162
SSCM4050202
SSCM4050252
SSCM4050302

SSCM4050402
SSCM4050502
SSCM4060122
SSCM4060162
SSCM4060202
SSCM4060252
SSCM4060302
SSCM4060352
SSCM4060402
SSCM4080162
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SSCM6050452
SSCM6060122
SSCM6060162
SSCM6060202
SSCM6060252
SSCM6060352
SSCM6060402
SSCM6080202
SSCM6080252
SSCM6080302
SSCM6080402
SOCKET SET SCREW
SSSMP060062
SSSMP080102
SOCKET SET SCREW SS304/316
SSSM4060062



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