

Build it better with
BREMICK®

SOCKET & SET SCREWS

BUILDING PRODUCT
INFORMATION
SHEET



Contents

- 1.1 Product class3
- 1.2 Product name.....3
- 1.3 Product description and its intended use3
- 1.4 Product identifier (if applicable)3
- 1.5 Place manufactured (New Zealand or overseas)3
- 1.6 Relevant Building Code clauses.....3
- 1.7 Statement of how the building product is expected to contribute to compliance4
- 1.8 Limitations on the use of the building product5
- 1.9 Design requirements that would support the appropriate use of the building product.....6
- 1.10 Installation requirements.....6
- 1.11 Maintenance requirements6
- 1.12 Building Act 2004 section 26 compliance6
- Appendix:** Bremick Product Codes7

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®

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|---------------------------------------|-----------------------------------|---------------------------|-------------------------------------|
| 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 | |

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| SHHM4050202 |
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| SHHM4080752 |
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| 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 |
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| SSCM4030122 |
| SSCM4030162 |
| SSCM4030252 |
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| SSCM6060202 |
| SSCM6060252 |
| SSCM6060352 |
| SSCM6060402 |
| SSCM6080202 |
| SSCM6080252 |
| SSCM6080302 |
| SSCM6080402 |
| SOCKET SET SCREW |
| SSSMP060062 |
| SSSMP080102 |
| SOCKET SET SCREW SS304/316 |
| SSSM4060062 |



Build it better with **BREMICK®**

Bremick NZ Ltd

Unit F / 373 Neilson Street Penrose, Auckland,
New Zealand, 1061
www.bremick.co.nz
nthnzsales@bremick.co.nz
Toll Free: 0800 658 075
NZBN: 9429034886243

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