



CodeMark Assessment Brief
For
Masons Brick Ties



Galvanised Steel



Stainless Steel

Masons Plastabrick Ltd

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NEW ZEALAND
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MASONS
Designed Smart, Built Tough.

Only to be installed in accordance with the requirements of
NZS 4210:2001 (Masonry Construction: Materials & Workmanship) and NZS 3604:2011 (Timber -Framed Buildings).

1 TECHNICAL SCOPE

- Masons Brick Ties are Hot dipped galvanised and 316 Stainless steel Ties suitable for all buildings applications including Heavy Duty Earthquake zones. Masons brick ties are Suitable in for both dry bedding and wet bedding applications.
- Lengths: 85mm, 110mm &135mm
- Masons Brick Ties demonstrate Compliance with NZBC 2013 Structure B1.3.1, B1.3.2, B1.3.3 (f), (h).
- Masons Plastabrick Brick Ties comply with AS/NZS 2699.1:2000 and as such contribute significantly towards the NZBC performance provisions cited above when used in accordance with the requirements of NZS 4210:2001 (Masonry Construction: Materials & Workmanship) and NZS 3604:2011 (Timber -Framed Buildings).

2 PROPERTIES EVALUATED

AS/NZS 2699.1: 2000 classifies Type B seismic-resistant veneer ties according to stiffness and Characteristic strength. To be classified as Heavy Duty (EH), veneer ties must meet the outlined below:

Minimum criteria

Seismic Veneer Tie	Minimum	Minimum	Minimum
classification	Characteristic axial stiffness kN/mm	Characteristic axial strength (at the end of 4 th , 10mm tension cycle) kN	Characteristic residual strength (at end of 15mm cycle) kN
Heavy Duty (EH)	0.200	1.500	1.100

3 VALIDITY OF THE FINDING

Condition:

This Assessment Brief applies only to Masons Brick Ties as described here in.

Withdrawal:

This Assessment Brief will be withdrawn or amended if CMA considers that a change in design or manufacturing quality renders the basis of the appraisal invalid, or if reported field experience convinces CMA of unsatisfactory quality or performance.

Term of Validity:

This CertMark assessment will expire three years after from the date of issue unless revalidation has been requested and granted.

4 EVALUATION SCOPE

Compliance with the following codes:

- 1 AS/NZS 2699.1:2000
- 2 NZS 4210:2001

5 GENERAL DESCRIPTION

Masons Brick Ties Hot dipped galvanised and 316 Stainless steel Ties suitable for all buildings applications including Heavy Duty Earthquake zones.

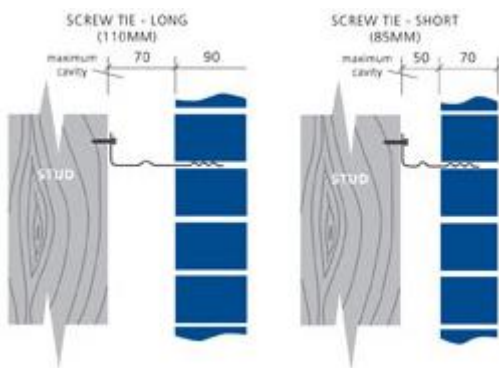
- 1 MASONS Brick Ties are manufactured to comply with AS/NZS2699.1.2000
- 2 Rated Heavy Duty
- 3 Can be used to tie any masonry veneer to a structural frame
- 4 Available in three lengths: 85mm, 110mm & 135mm
- 5 Available in hot dipped galvanised & 316 stainless steel
- 6 Using 316 Stainless Steel provides ultimate durability for houses in sea-spray zones
- 7 Provided with 270 screw fixing and 250 ties per box in hot dipped galvanised

Lengths: 85mm, 110mm &145mm

6 MODELS

Product Code	Description	Building Zone	Horizontal	Vertical
TIE85HD	Hot Dipped Short Tie	Normal Zone	400mm 450mm	500mm 450mm
TIE110HD	Hot Dipped long Tie	Normal Zone	600mm	400mm
TIE135HD	Hot Dipped King Tie	Normal Zone	Note: It is recommended that a minimum of 5 brick ties per M ² or 100 ties per 1000 bricks	
TIE85SS	Stainless steel short tie	Sea-Spray Zones		
TIE110SS	Stainless Steel long tie	Sea-Spray Zones		
TIE135SS	Stainless Steel King tie	Sea-Spray Zones		

7 INSTALLATION



8 BASIS OF THE ASSESSMENT BRIEF

This Assessment Brief has considered the following aspects in issuing this recognition:

- 1 Installation procedures
- 2 Physical Properties
- 3 Relevant NZBC requirements
- 4 The ability of the installation details to meet the requirements of AS/NZS2699.1.2000.

9 SPECIFICATIONS

Classification for seismic veneer Tie	Minimum for Axial Stiffness (kN/MM)	Minimum Characteristic for Axial Strength (kN/MM)	Minimum Characteristic Residual Strength
Light Duty	0.150	0.500	0.350
Medium duty	0.175	0.750	0.550
Heavy duty	0.200	1.500	1.100

10 MANUFACTURERS & INSTALLATION INFORMATION

Test Reports

- 1 Opus test report No.: 1-L011.54
- 2 SGS Test Certificate No.: INZ42299-01
- 3 Letter from Ministry of Business Innovation & Employment dated 10 July 2013

11 INSPECTIONS

CMA representatives have inspected installations of the systems and found the level of performance satisfactory.

12 IDENTIFICATION AND BRANDING

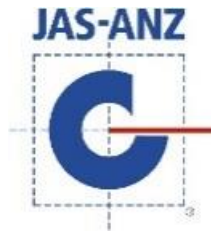
The Client may also affix the CertMark International mark as shown below.

13 COPYRIGHT STATEMENT

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CODEMARK CERTIFICATION

CodeMark is a building product certification scheme. The CodeMark scheme supports the use of new and innovative building products by providing a nationally and internationally accepted process for products to be assessed for compliance with the requirements of the building codes of Australia and New Zealand. The scheme provides confidence and certainty to regulatory authorities and the market through the issue of a Certificate of Conformity.



The ABCB and New Zealand's Ministry of Business, Innovation and Employment (MBIE) manage the scheme in their respective countries. The Joint Accreditation System of Australia and New Zealand (JAS-ANZ) have accredited CertMark to evaluate and certify building products. Relevant legislation requires building control authorities to accept CodeMark certified products.

John Thorpe
Director
CertMark Australasia Pty Ltd
JAS-ANZ Accreditation Number Z4450210AK