COMPLIANCE SUMMARY REPORT / PRODUCT SPECIFICATIONS

CARLRAY STUBBY TIES FACE-FIXED LIGHT DUTY Z600 R2 RATED COMPLY TO AS 2699.1:2020 & AS 3700:2018

Manufactured By

Carlray Pty Ltd 448 The Boulevarde Kirrawee N.S.W. 2232

Product: Code 83836

Type: A

Category of Tie: Veneer - Face Fixed

Classification: Light Duty
Rated Cavity Width: 50mm
Durability Category: R0 R1 R2 Mild
Fastening Requirements: 3.15 Galv Nail
Product Dimensions: 100mm x 23mm x .75mm

Test Results: Masonry Research Centre Deakin University

	Z600
35mm	R2 Rated
Nails Hot D	ipped Galv
60mm	
	_
100mm	40mm
m J	
	23mm

Duty Classification	Mean Strength Kn	
Duty Classification	Tension Compression	Compression
Light Duty	0.46	0.74

Light Duty Face-Fixed Ties nail fixed from ground up to 3mtrs. From above 3mtrs a Medium Duty strength classification is required by screw fixed.

Durability Class	Colour Code	Material
R2	Yellow	Z600

300gms/m² on each surface

Water Transfer Test	Vertical Offset = 0	Vertical Offset = 20mm
Up Position	Pass	Pass

Note: Ties must be installed in the up position, as per image.

Corrosion Zones for Masonry Strip Steel Veneer Ties - Material Z600 Galv		
Durability Class	Surf Coast	Sheltered Coast
R2	>10km	>1km

Note: The closer the construction is located to the sea, the higher corrosive environment.

Installation and Spacings Requirements For Masonry Veneer Ties		
450 Stud Walls	600 Stud Walls	Around Openings & Edges
600mm x 450mm	600mm x 600mm	300mm x 300mm

Note: Suitable for timber frames. The correct mortar mix is important to effectivity of strength in masonry construction.

Assessment / Overview

These ties comply, having been independently tested by Deakin University Masonry Research Centre. Test reports and Material Certificate of Analysis for determining the coating thickness of galvanised wall ties are available on request.

Ph: 02 9542 4888 Email: info@carlray.com.au Web: www.carlray.com.au

The Australian Standard for Built-In Components For Masonry Construction AS 2699.1:2020 Requirements For Strenght Classification of Type A Ties:

Duty Classification	Mean Strength,kN - AS 2699.1:2020	
	Tension	Compression
Light Duty	0.30	0.36
Medium Duty	0.60	0.72
Heavy Duty	1.50	1.80

Carlray Face-Fixed Stubby Ties Strenght Test Results:

Stronght Tost A	Mean Str	ength,kN
Strenght Test A	Tension	Compression
Test No. 1	0.43	1.23
Test No. 2	0.38	0.59
Test No. 3	0.48	0.62
Test No. 4	0.49	0.79
Test No. 5	0.34	0.82
Test No. 6	0.40	0.56
Test No. 7	0.47	0.61
Test No. 8	0.47	0.77
Test No. 9	0.35	0.68
Test No. 10	0.49	0.75
Mean	0.46	0.74

Carlray Face-Fixed Stubby Tie Material Analysis Test Report:

