COMPLIANCE SUMMARY REPORT / PRODUCT SPECIFICATIONS



Manufactured By	Z950
Carlray Pty Ltd	2990 151
448 The Boulevarde	R3 Rated
Kirrawee N.S.W. 2232	
Product: Code 83894	somm
Туре: А	
Category of Tie: Veneer - Side Fixed	125mm
Classification: Medium Duty	
Rated Cavity Width: 50mm	Nails Hot Dipped Galv
Durability Category: R3 Marine	
Fastening Requirements: 3.15 Galv Nail	
Product Dimensions: 135mm x 18mm x .	75mm

Test Results: Specimens Tested 6

Duty Classification	Mean Str	ength Kn
Duty classification	Tension	Compression
Medium Duty	0.99	0.9

Durability Class	Colour Code	Material
R3	RED	Z950 +

475gms/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 Z950 Galv
Durability Class	Surf Coast	Sheltered Coast
R3	1km to 10km	100m to 1km

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

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

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

Assessment / Overview

These ties comply, having been independently tested. Carlray manufactures only with materials compliant to corrosivity categories & durability classes specified in the Australian Standard for Built-In Components for Masonry Construction A.S. 2699.1.2019 & Masonry Structures A.S. 3700.2018. Test reports & Material Certificate of Analysis for determining the coating thickness are available on request.

INDUSTRIAL GALVANIZERS (NSW)



Sydney 20-22 Amax Avenue, Girraween, NSW 2145 Telephone: (02) 9636 8244 Facsimile: (02) 9631 8615

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A Division of Industrial Galvanizers Corporation Pty. Ltd. ACN 000 545 415 ABN 40 000 545 415 006 Port Kembla Lot 2 Sheliharbour Road Port Kembla, NSW 2505 Telephone: (02) 4275 8888 Facsimile: (02) 4275 8800

QUALITY ASSURANCE CERTIFICATE

To:	Carlray Pty Ltd
Email:	carlray@ozemail.com
Date:	2/08/2019

Steelwork galvanized through our NSW plants is processed in accordance with the requirements of AS/NZS 4680:2006 and quality system ISO9001:2008. The work described below has had the coating thickness measured using the method described in AS 2331.1.3 -2001, using a calibrated instrument; the results are attached.

Hot dip galvanized coatings as described by AS/NZS4680 is the process whereby the steel is immersed in a molten bath of zinc after fabrication resulting in a tough thick metallic envelope covering the entire steel surface.

The associated durability of this coating is dependent on the Atmospheric Corrosive Category of the application and reference should be made to AS/NZS2312 for clarification.

Company: Project Name: Purchase Order: Carlray Pty Ltd

Factory Order:

80529

Ties

Regards

Customer Service Industrial Galvanizers (NSW)



SAI GLOBAL



Quality Assurance Checksheet Industrial Galvanizers

Testing Authority: IG Sydney Carlray Customer:

Test Method Used: G5 Magnetic Induction Factory Order: 80529

Test Instrument Calibration Date: Test Instrument ID: Date of Issue:

774347 01.08.2019

03.06.19 #2760

Item (Description) / ID / Batch		Article Thickness (mm)	Local Zi	Local Zinc Coating Thickness in μm	Thickness	in µm Random	um Random Readings in 20 sq.cm area)	1 20 sq.cm	area)	-		(10	Avg (µm)	AS 4680 Expected Zinc Thickness (µm) if Article Thickness (mm) is <8 >8	d Zinc Thickness ckness (mm) is >8	Outcome Pass (P) Fail (F)
K Coating Thickness Standard Serial #	ierial #	Foil µm												Average to be within ±1.5% of the standard thickness foil chosen	Average to be within ±1.5% of the standard thickness foil chosen.	
Veneer Ties		A	142	116	128	126	122	118	106	06	98	92	113.8	Local Readings (average of 10)	(average of 10)	
			116	108	06	84	92	124	114	98	92	106	102.4	25	40	
		0	122	96	122	118	106	122	142	136	114	110	118.8	Average Reading	Average Readings (Average of 30)	0
	Navision Reading	Reading											112	35	55	
		A											i0//\IC#	Local Readings (average of 10)	(average of 10)	
c		æ											i0//IC#	25	40	
7		0											#DIV/0!	Average Readings (Average of 30)	s (Average of 30)	
	Navision Reading	Reading											10//IG#	35	55	
		V											#DIV/0	Local Readings (average of 10)	(average of 10)	
0		60											#DIV/0!	25	40	
2		0											#DIV/0	Average Readings (Average of 30)	s (Average of 30)	
	Navision Reading	Reading											#DIV/0	35	55	
		<											#DIV/0!	Local Readings (average of 10)	(average of 10)	
V		60											i0//IC#	25	40	
		0											#DIV/01	Average Readings (Average of 30)	s (Average of 30)	
	Navision Reading	Reading											#DIV/0!	35	55	
The coating thickness of this galvanized product has been tested according to the requirements of AS4680:2006 (Appendix G) and using methods described in AS2331.1.3-2001 The local and average coating thickness has been reported. If the 'Outcome' is 'Pass', the zinc thickness complies with the Standard. Retests are marked with an 'R'.	galvanized g thickness	l product ha	ns been tes eported. If	ted accordin f the 'Outcor	ig to the req me' is 'Pass',	uirements o the zinc thic	f AS4680:20 kness comp	006 (Appen blies with th	dix G) and he Standard	using meth d. Retests a	ods describ Ire marked	ed in AS23 with an 'R'	31.1.3-2001.			
Tested by: Chris Lavopa	opa															metay 2.1
	Totion	Chin Dlant Cunar Intendant	+													

01.08.2019

Date:

Signature:

C Gualify ISO 9001 Sav cuosso.

RESULTS

Resistance to Water Transfer

Table 1 summarises the results of the resistance to water transfer test. The orientation of the tie has been defined as right-way up when the longitudinal rib stiffnener is in the convex up position as shown in appendix A.

Installation	Displacement (mm)	Result
Right-way up	0	Pass
Right-way up	20	Pass
Upside down	0	Pass
Upside down	20	Fail



Strength

Table 2 summarises the strength values obtained.

Specimen	Streng	th (kN)
Number	Compression	Tension
1	0.97	0.79
2	0.88	1.04
3	0.83	1.00
4	0.70	1.11
5	1.14	0.96
6	0.89	1.02
Mean	0.90	0.99
Standard Deviation	0.15	0.11
Characteristic Strength	0.66	0.81

Table 2. Summary of Results for Strength Tests