Proposed Load Testing for Mega Anchor Products

Introduction:

A selection of mega anchor products will be load tested to determine different loading capacities with different length piles. This will include mainly Down Load & Upload capacities. The data will be considered in calculations for general building and construction and solar structures. Mega Anchor products will be subject to multiple load tests under controlled conditions. The tests will also test tensile strength of Mega Anchor products and fixings.

Maximum Load test will not exceed 90KN Download & 45KN upload. All anchors will be installed as per design compliance drawing S2 for 30KN support.

All test will be filmed.

Testing Plan:

Test Date: 12/04/2014

Test Location:

Travers Lane, Heathcote, Victoria, Australia



Tests will be carried out on Mega Anchor products as described below. MA1# Heavy Duty Mega Anchor MA15# Heavy Duty Mega Anchor Flat Top

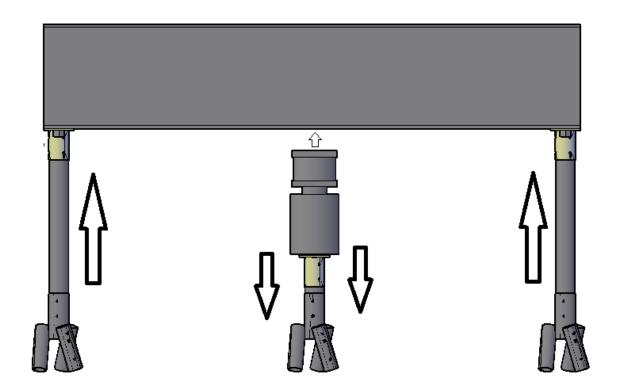
Each test will consist of 3 anchors being installed in close proximity of each other. The anchors will be installed in a straight line, multiple tests will be conducted on anchors installed with different pile depths. A bearer will span the 3 anchors with a 20t hydraulic Jack and 20t load cell placed between the centre anchor and the bearer the anchors on the end will be attached directly to the bearer.

Test Plan Details:

Items Required:

Item	QTY
MA1# Heavy Duty Mega Anchor	6
MA15# Heavy Duty Flat Top	9
Risers 50NB Gal Pipe	9
900mm Piles 32NB Pipe 2mm Gal	9
1200mm Piles 32NB Pipe 2mm Gal	9
1500mm Pipe 32NB Pipe 2mm Gal	9
Tek screws 14g class 4 20x22	300
Bolts nuts & 4mm washes M14	4
Bearer / Beam 350mm I Beam	1
20t (tonne) Hydraulic Jack	1
20t (tonne) Load Cell	1
Load Cell Display	1
Video Camera	1
Still Camera	1
Mega Anchor Standard Installation Tool Set	1

Testing Diagram:



1st Test MA1# MA15# 900MM Piles

3 MA1# Heavy Duty Mega Anchors will be installed. The 3 anchors will be installed in a line. The hydraulic jack and load cell will be placed on the middle Anchor and the other 2 MA1# anchors fitted with the MA15# Flat Top will attach directly to the bearer. The 2 MA1# anchors on the outside of the beam will be tested for uplift and the centre anchor will be tested for down force. The Anchors will have a set pile depth of 900mm with the piles penetrating 750mm into the ground. It has been calculated that the 2 outer anchors will share the uplift force making the uplift force approximately half the download force applied to the middle anchor.

Items Required:

3 x MA1#

3 x MA15#

1 x 20t Hydraulic Jack

1 x 20t Load Cell + Display

9 x 900mm piles

Screws & Bolts

2nd Test MA1# MA15# 1200MM Piles

3 MA1# Heavy Duty Mega Anchors will be installed. The 3 anchors will be installed in a line. The hydraulic jack and load cell will be placed on the middle Anchor and the other 2 MA1# anchors fitted with the MA15# Flat Top will attach directly to the bearer. The 2 MA1# anchors on the outside of the beam will be tested for uplift and the centre anchor will be tested for down force. The Anchors will have a set pile depth of 1200mm with the piles penetrating 1050mm into the ground. It has been calculated that the 2 outer anchors will share the uplift force making the uplift force approximately half the download force applied to the middle anchor.

Items Required:

3 x MA1#

3 x MA15#

1 x 20t Hydraulic Jack

1 x 20t Load Cell + Display

9 x 1200mm piles

Screws & Bolts

3rd Test MA1# MA15# 1500MM Piles

3 MA1# Heavy Duty Mega Anchors will be installed. The 3 anchors will be installed in a line. The hydraulic jack and load cell will be placed on the middle Anchor and the other 2 MA1# anchors fitted with the MA15# Flat Top will attach directly to the bearer. The 2 MA1# anchors on the outside of the beam will be tested for uplift and the centre anchor will be tested for down force. The Anchors will have a set pile depth of 1500mm with the piles penetrating 1350mm into the ground. It has been calculated that the 2 outer anchors will share the uplift force making the uplift force approximately half the download force applied to the middle anchor.

Items Required:

3 x MA1#

3 x MA15#

1 x 20t Hydraulic Jack

1 x 20t Load Cell + Display

9 x 1500mm piles

Screws & Bolts

Test Results

1st Test

Load Direction	Uplift	Download	Uplift	
Anchor	MA1#	MA1#	MA1#	Max Load Applied
Pile Length	900	900	900	
Pile Ground Penetration	750	750	750	
Down Load Applied	NA	3000KG	NA	
Up Load Applied	1500KG	NA	1500KG	3000KG
Point Of failure Load	1500KG	None	1500KG	
Type Of failure	Lifting	NA	Lifting	
Damage to Product	None	None	None	

Pile Log

Anchor No	Pile 1	Pile 2	Pile 3	Practical Refusal
1	750	750	750	N
2 (Centre Anchor)	750	750	750	N
3	750	750	750	N

Conclusion

The test results indicate that 900mm piles that penetrate 750mm can withstand an upload force of approximately 1500KG before the anchor starts to lift. No damage was sustained to the anchor, fixings or any attachments.

This test also indicates that although the anchor piles were not installed to practical refusal they were still able to withstand down load forces up to 3000KG.





2nd Test

Load Direction	Uplift	Download	Uplift	
Anchor	MA1#	MA1#	MA1#	Max Load Applied
Pile Length	1200	1200	1200	
Pile Ground Penetration	1050	1050	1050	
Down Load Applied	NA	4700KG	NA	
Up Load Applied	2350	NA	2350	4700
Point Of failure Load	None	None	2000KG	
Type Of failure	None	None	Lifting	
Damage to Product	None	None	None	

Pile Log

Anchor No	Pile 1	Pile 2	Pile 3	Practical Refusal
1	1050	1050	950	Υ
2	1050	1050	1050 /N	Y/N
3	1050	1050	950	Υ

Notes

The test results indicate that 1200mm piles that penetrate 1050mm can withstand an upload force of approximately 2350KG before the anchor starts to lift. No damage was sustained to the anchor, fixings or any attachments.

This test also indicates that anchor piles installed to practical refusal were able to exceed the design load of the Mega Anchor and withstand down forces up to 4700KG without failure.



3rd Test

Load Direction	Uplift	Download	Uplift	
Anchor	MA1#	MA1#	MA1#	Max Load Applied
Pile Length	1500	1200	1500	
Pile Ground Penetration	1350	1050	1350	
Down Load Applied	NA	8000KG	NA	
Up Load Applied	4000 KG	NA	4000 KG	
Point Of failure Load	Between	5500KG	Between	
	3500KG -	7600KG	3500KG -	
	4000KG		4000KG	
Type Of failure	MA15# Flat	Push down	MA15 Flat	8000KG
	Тор	Into Ground	Тор	
	Connection	At	Connection	
	Welds	5500KG	Welds	
	Failure	Riser Tek	Failure	
		Screw Sheer		
		At 7600KG		
Damage to Product	Flat Top	No	Flat Top	

Pile Log

Anchor No	Pile 1	Pile 2	Pile 3	Practical Refusal
1	1180	1350	1300	Υ
2	1050	1050	950	Υ
3	1350	1350	1350	Υ

Notes

The test results indicate that 1500mm piles that penetrate 1350mm can withstand an upload force in excess of 4000KG however it was observed that the MA15# flat top was the first component to fail in this test with the flat top connection welds breaking when the load applied exceeded 3500KG. There was some deflection in the centre anchor at loads between 5000KG & 8000KG but no physical breaks or destructive damage to the anchor. The centre anchor was installed with 1200mm piles. At the higher end of the load testing, the fixings on the anchor gave way between 7000KG & 8000KG. This test also indicates that anchor piles installed to practical Refusal were able to exceed the design load of the Mega Anchor and withstand down forces up to 5500KG without failure and loads up 7000KG before Tek screw sheer.











MEGA

Mega Building Industries Pty Ltd ACN 007 356 103 PO BOX 475, Diamond Creek, Victoria, Australia 3089

PH / FAX: +613 9438 1612 Email: - megaanchor@gmail.com Website: - www.mega-anchor.com

Mega Anchor Pile Test

A pile test was conducted to determine the depth of the piles for the Mega Anchor foundation system. A pile was driven to practical refusal on the specified site in the location where the building will be situated. The test details are outlined below.

Site Address:	Test Pile	Date	13.10.2015
Johnson Rd, Claymore, NSW	32 NB Galvanized Pipe 2mm Wall thickness		

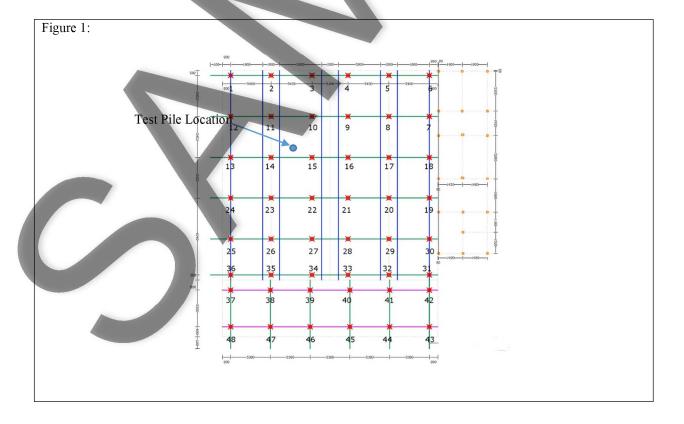
Practical Refusal for Mega Anchor Pile Test

Pile Driver: 45 Joules @ 1300BPM Pile penetration: 5mm / 10 seconds

Test Pile: 1

This test pile was driven to practical refusal on site in the location outlined in figure 1, Test pile location. The test pile reached practical refusal at 910mm

Test Pile Material	Test Pile Length	Pile Penetration	Driver	Recommended Pile depth
32 NB Galvanized Pipe 2mm Wall Thickness	2000mm	910mm	45 Joule Demolition Hammer	1100mm





Mega Building Industries Pty Ltd ACN 007 356 103 PO BOX 475, Diamond Creek, Victoria, Australia 3089 PH / FAX: +613 9438 1612 Email: - megaanchor@gmail.com Website: - www.mega-anchor.com







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WESTERN AUSTRALIAN DIVISION

TESTED LIFTING GEAR & MINING EQUIPMENT SPECIALISTS

50 Kewdale Road Welshpool WA 6108 P.O. Box 355, Welshpool DC WA 6986 Telephone: (08) 9358 5266 Facsimile: (08) 9451 3866 Email: perthsales@nobles.com.au Website: www.nobles.com.au

CERTIFICATE OF TENSILE TEST AND EXAMINATION

QUANTITY	DISTINGUISHING MARKS	DESCRIPTION	LOAD APPLIED	WORK LOAD LIMI
1	NPF9206	PULI. TO FAILURE TEST WAS COMPLETED ON A MEGA ANCHOR ANCHOR FAILED AT 8.05T ANCHOR WAS INSTALLED IN A SAND/CLAY BASE	78.9 kN	N/A
		TEST LOCATION: ON SITE/VIVASH LOAD CELL#: 97823		
		·		
		"Where A. Noble & Son Ltd carry out proof tosts on goods which are not their manufacture they are not responsible for the final integrity of the product if a proof test and careful visual inspection by a competent person does		
		not identify any short-comings in design or manufacture." The Goods covered by this certificate have been examined and tosted in accordance with the specified requirements.		

DATE OF TEST:

23/03/2011

TEST SPECIFICATION:

WT029

OUR REFERENCE:

789076

CUSTOMER ORDER No.: PCN0027/500283

AS SPECIFIED

WHICH REPRESENTS

A LOAD OF

WAS APPLIED

THE W.L.L.

AFTER REMOVAL OF THE LOAD, EACH ITEM WAS EXAMINED BY A COMPETENT OFFICER AND FOUND TO BE FREE FROM PERMANENT SET, FLAW OR OTHER VISUAL DEFECT, AND COMPLIES WITH THE REQUIREMENTS OF THE TEST.

TO:

PINDAN CONTRACTING PTY LTD **UNIT 8/1 LONGFELLOW CT BELMONT WA 6104**



NATA Accredited Laboratory Number: 1836

This Laboratory is accredited by the National Association of Testing Authorities, Australia. The test(s) reported herein have been performed in accordance with its terms of accreditation. This document shall not be reproduced except in full.

Approved NATA Signatory

MURRAY TOZER

-8 APR 2011

Page 1 of 1

WT/8 - 19/05/2008

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A.B.N. 18 007 513 395



WESTERN AUSTRALIAN DIVISION

TESTED LIFTING GEAR & MINING EQUIPMENT SPECIALISTS

50 Kewdale Road Welshpool WA 6106 P.O. Box 355, Welshpool DC WA 6986 Telephone: (08) 9358 5266 Facsimile: (08) 9451 3866 Email: perthsales@nobles.com.au Website: www.nobles.com.au

CERTIFICATE OF TENSILE TEST AND EXAMINATION

QUANTITY	DISTINGUISHING MARKS	DESCRIPTION	LOAD APPLIED	WORK LOAD LIMIT
1	NPF9207	PROOF LOAD TEST CARRIED OUT ON CUSTOMERS OWN MEGA ANCHOR TO CUSTOMERS NOMINATED LOAD 68.67 KN IN ACCORDANCE WITH NOBLES INTERNAL NON DESTRUCTIVE TEST PROCEDURE. NO DRAWINGS/MATERIAL CERTIFICATES OR WELDERS QUALIFICATION SITED. MANUFACTURED BY: PINDAN THE EQUIPMENT SHOWED NO DELITERIOUS EFFECTS AT THE TIME OF LOAD TEST TEST LOCATION: NOBLES PERTH LOAD CELL#: 97823	68.67 kN	N/A
		"Where A. Noble & Son Ltd carry out proof tests on goods which are not their manufacture they are not responsible for the final integrity of the product if a proof test and careful visual inspection by a compatent person does not identify any short-cominge in design or manufacture."		
		The Goods covered by this cartificate have been examined and tested in accordance with the specified regularments.		ļ <u>-</u>

DATE OF TEST:

23/03/2011

TEST SPECIFICATION:

WT029

OUR REFERENCE:

789076

CUSTOMER ORDER No.: PCN0027/500283

Page 1 of 1

AS SPECIFIED A LOAD OF

WHICH REPRESENTS

WAS APPLIED

THE W.L.L.

AFTER REMOVAL OF THE LOAD, EACH ITEM WAS EXAMINED BY A COMPETENT OFFICER AND FOUND TO BE FREE FROM PERMANENT SET, FLAW OR OTHER VISUAL DEFECT, AND COMPLIES WITH THE REQUIREMENTS OF THE TEST.

TO:

PINDAN CONTRACTING PTY LTD UNIT 8/1 LONGFELLOW CT **BELMONT WA 6104**



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Approved NATA Signatory

MURRAY TOZER 8 APR 2011

WT/8 - 19/05/2008



STRUCTURAL COMPUTATIONS

PROPOSED RESIDENCE:

No. 4 Waratah Way,

Cockatoo

CLIENT:

Mega Building Industries Pty Ltd

PO Box 475

Diamond Creek, VIC 3089

JOB No:

92481

REFERENCES

• B.C.A. **Building Code of Australia**

• AS/NZS 1170.0- 2002 Structural Design Actions: General Principles

• AS/NZS 1170.1- 2002 Structural Design Actions:

Permanent, Imposed and other actions

• AS/NZS 1170.2- 2011 Structural Design Actions: Wind Actions

• AS1720.1 - 2010

Timber Structures: Design Methods

• AS3600 - 2009

Concrete Structures Code

• AS4100 - 1998

Steel Structures

AS3700 - 2011

Masonry Structures

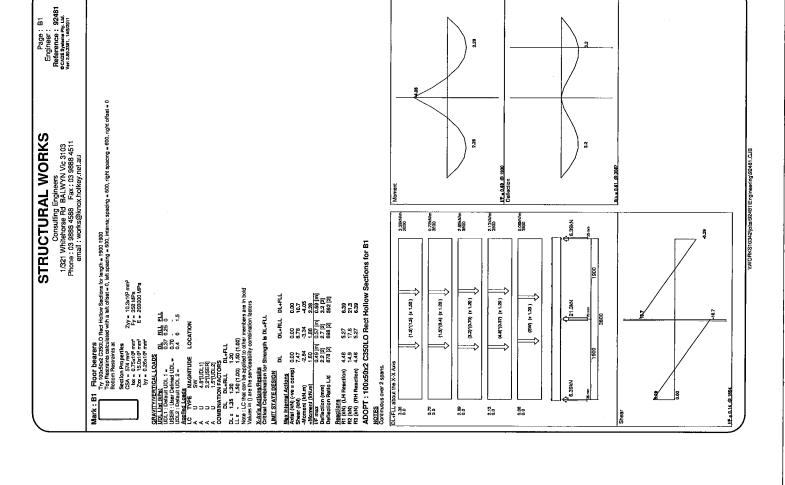
• AS1684.2 & .4 - 2010 Residential timber-framed Construction

• AS2870 - 2011

Residential Slabs and Footings

Nadir Yonan

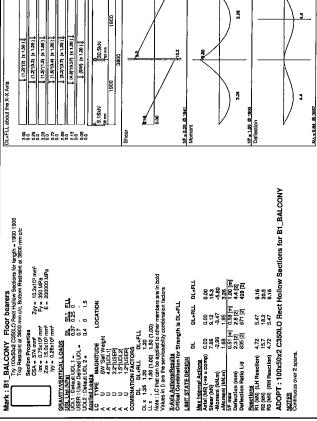
Structerre Consulting Engineers



STRUCTURAL WORKS

Page: B2 Engineer: Reference: 92481 e cans Systems Pty. Ltd. ver: 249.2081, 14482011

Consulting Engineers 1/321 Whitehorse Rd BALWYN Vic 3103 Phone: 03 9888 4588 Fax: 03 9888 4511 email: works@knox.holkey.net.au



=

Mark : B1_TG_TRUSS Floor bearers

Ty 1005600 C330.0 The Hollwo Sections for length - 1500 1500
Top Pastivini at 3500 mm act, Bottom Restraint at 3500 mm act
Section Properties

CS1 = 574 mm²
Zyy = 1034010 mm²
Zy = 10500 Mm²
Zy = 10500 Mm²
E = 200000 Mm² | CRANTT/VERTICAL LOADS | PAL FILL |
UNIVERTICAL LOADS	DATE FILL
UNIVERTICAL LOADS	DATE FILL
UNIVERTICAL CARDS	DATE FILL
UNIVERS	DATE FILL
UNIVER	DATE FILL
UNIVERS	DA

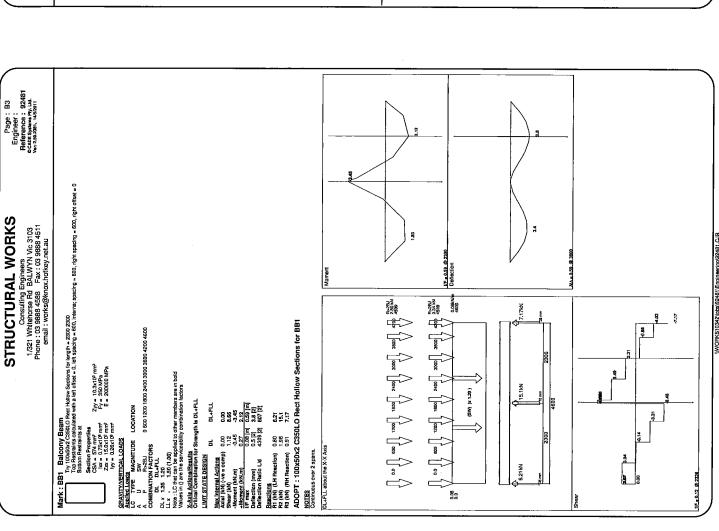
OL+FLL about the X-X Axis

DL+RIL DL+FLL X-Axis Actions/Regulls Critical Combination for Strength is DL+FLL LIMIT STATE DESIGN

fif max u.49 (m)
Deflection (mm) 3.5 [2]
Deflection Relio L/d 542 [2] Reactions R1 (kN) (LH Reaction) 2.62 R2 (kN) 14.9 R3 (kN) (RH Reaction) 5.22

ADOPT: 100x50x2 C350LO Rect Hollow Sections for B1_TG_TRUSS NOTES Continuous over 2 spans.

2.13KN/m 3900 0.08kN/m 3800 3.38KN/ 3800 0.72kN/ 3800 2.69kN/ 7.0 2,74 (051 x) (51).(51) (02) (x 120) (3W) (x 1.20) (1.5)*(0.4) (x 1.20) 21.3kN 7. AA = 0.85 @ 2850 1/F = 0.16 @ 19; 0.00 0.00 20 80



STRUCTURAL WORKS

Page: B4 Engineer: Reference: 92481 CANE Systems Phy. Lid. Var. 250 2381, 145/2011

Consulting Engineers 1/321 Whitehorse Re BALLWTN VIc 3103 Phone: 03 9888 4588 Fax: 03 988 4511 email: works@knox.hotkey.net.au

Mark: BJ

DL+FLL about the X-X Axis

900 50 800 Balcony Joists
Try 100x50x2 C350LO Rect Hollow Sections for length = 2550 -700
Top Restraint at 3250 mm c/c, Bottom Restraint at 3250 mm c/c Zyy = 10.3x10³ mm³ Fy = 350 MPa E = 200000 MPa DL x 135 130 (100)
Note: 1.C first care be serviceability controlled to the hold Values in () are the serviceability controlled in t
 GRAVITY/VERTICAL LOADS

 UDL List (KPe)
 DL BLL FLL

 USE List Defined UDL =
 0.2 - 2

 Applied Load
 2

 LC TYPE
 MAGNITUDE

 LC TYPE
 LOCATION
 Section Properties CSA = 574 mm² lxx = 0.75x10° mm² Zxx = 15.0x10° mm³ lyy = 0.26x10° mm² A U SW 'Sell Wei A U 0.457USER] COMBINATION FACTORS

0.11kN/n 1.35kN/n 3250

(SW) (# 1.20)

(0.45)*(2) (x 1.50) (0.45)*(0.2) (x 1.20) 3.13kN 700

X-Axis Actions/Resufts Critical Combination for Strength is DL+FLL DL+FLL 3.13 0.22 占 Reactions R1 (kN) (LH Reaction) R2 (kN) (RH Reaction) LIMIT STATE DESIGN

ADOPT: 100x50x2 C350LO Rect Hollow Sections for BJ

2/A = 0.44 @ 1275 I/F = 0.18 @ 1275 Deflection

L+FLL about the X-X Axis 50 Mark : FJ Floor Joists

Try 10bs50x2 0350LO Rect Hollow Sections for length = 2950
Top Restraint at 2950 mm c/c, Bottom Restraint at 2950 mm c/c.

Zyy = 10.3x10³ mm³ Fy = 350 MPa E = 200000 MPa Section Properties CSA = 574 mm² kx = 0.75x10° mm² Zxx = 15.0x10° mm³ ly = 0.26x10° mm²

GRAVITY/VERTICAL LOADS

UDL LIST (RPB)

UDL 2: Detail UDL 2 = 0.4 0 1.5

Applied Loads

LC TYPE MASNITUDE LOCATION A U 0.45 [UDL2] COMBINATION FACTORS

DLX 135 120 10.14.TLLX 136 13.00 (1.00) Note: 1.00 (1.00) Note: 1.

X-Axis Actions/Results Critical Combination for Strength is DL+FLL

0.00 1.89 0.00 1.40 0.24 [m] 5.9 498 ᆸ Max Internal Actions Axial (kN) (-ve = comp) Shear (kN) LIMIT STATE DESIGN Deflection (mm) Deflection Ratio L/d -Moment (kN.m) +Moment (kN.m) f/F max

Reactions R1 (kN) (LH Reaction) 0.45 R2 (kN) (RH Reaction) 0.45

ADOPT: 100x50x2 C350LO Rect Hollow Sections for FJ

(04.1 (2.1)*(24.0) (0.45)*(0.4) (x 1.20) (SW) (x 1.20) 2950 I/F 0,24 @ 1475 Deflection MA # 0.72 @ 1475 200 900

NWORKS10342\jabs\92481\Engineering\92481.CJB



sheet:	5
date:	29.10.2015
job no:	92481
design:	N.Y.

hs = as per clause 2.3.2 (B) (2) & G4.3 & G5.3 i	1.8 m n AS2870-2011					
The geotechnical design strength should be based on base resistance plus side friction or adhesion where effective. No side adhesion or friction should be assumed to exist to a depth of 0.75Hs for						
down loads. For uplift load due to soil sw be effective.	elling, side triction o	r adhesion should b	e assumed to			
thus ignore top 0.75hs =	1.35 m					
thus ignore top 0.75hs =	1.33 111					
Soil Bearing Capacity	250 kPa					
SKIN FRICTION	50 kPa					
	Active to the first section of					
<u>Loads</u>	grada i rada					
Load DL	12.3 kN					
Load LL	14 kN					
Total Load	19.3 kN					
	2 2					
Pad area 0.10 x 0.10 =	0.01 m ²					
Pad capacity =	2.50 kN					
Stump Check						
Try 50NB	60.3 x	2.3 mm	C350			
Ultimate Design Load	26.3 kN					
Lef ≤	2.5 m					
e	30 mm					
M*	0.789 kN.m					
φMs	2.44 kN.m					
φNc	44.8 kN					
фМbх	1.0 kN.m	> 0.8	kN.m Thus OK			
Mega Anchor Capacity						
Number of Piles	3	1990 to 15 and 14	A CONTRACT OF THE PARTY OF THE			
Try 30NB	42.4 x	4 mm	C250			
End bearing capacity =	1.1 kN					
Design Load - Pad capacity =	15.7 kN					
·						
Total suface area per meter	0.3996 m²/m					
Pile capacity	19.98 kN/m					
pile length required	0.8 m					
min. depth of 3 piles	2.1 m					

Adopt 2.1m Deep Mega-Anchors (3No. 30NB Gal. piles) founded below ground level

Note: Pile founding depth is 0.8m minimum into natural silty clay as noted on soil report and 2.1m minimum below ground level whichever is deeper or to Penetration Resistance on to natural rock. Anchors should be proof loaded and tested during construction to ensure that design loads are being achieved. Consideration should be given to corrosion protection of anchors, particularly where permanent or long-term anchors are proposed.

MEGA ANCHOR PILE LOG

Job Details		Installer Details		
Job:	Sample Job	Company Name:	Mega Building Industries P/L	
Address:	Johnson Rd, Claymore, NSW	Site Supervisor:	Tom Builder	
Installation Date:	13/10/2015	Installers Address	Sample St, Melbourne	
Signature:		Contact Ph:	03 9999 9999	
Date:				

Pile Driver Details:

Driver, Make/Model	Bosch GSH 16-30	
Joules	45	
BPM	1300	
Weight	17 KG	
Tool Holder	30mm	

Pile Log:

Pile Log:					
ANCHOR NO:	Pile Length	Pile 1	Pile 2	Pile 3	To Practical
	1100	1000	1000	1000	Refusal Y/N
1	1100	1000	1000	1000	Y
2	1100	1100	1000	1000	Y
3	1100	1050	950	950	Y
4	1100	1000	900	900	Y
5	1100	1100	1100	900	Y
6	1100	1050	950	800	Y
7	1100	1050	1050	1050	Y
8	1100	800	850	850	Y
9	1100	950	950	1050	Y
10	1100	1100	950	1000	Y
11	1100	1050	1050	1050	Y
12	1100	1050	1050	1050	Y
13	1100	1100	1100	1100	Y
14	1100	1050	1050	1050	Y
15	1100	1100	1050	600	Y
16	1100	1100	1100	1100	Y
17	1100	1100	900	1000	Y
18	1100	1100	1100	1100	Y
19	1100	950	950	950	Y
20	1100	1100	1100	950	Y
21	1100	1100	1100	1100	Y
22	1100	1100	1100	1100	Y
23	1100	1100	1100	1100	Y
24	1100	1100	1100	1100	Y
25	1100	1100	1100	1100	Y
26	1100	1100	1100	1100	Y
27	1100	1100	1100	1100	Y
28	1100	1100	1100	1100	Y
29	1100	1100	1100	1100	Y
	L	L	l	1	D 4 C2

ANCHOR NO:	Pile Length	Pile 1	Pile 2	Pile 3	To Practical
					Refusal Y/N
30	1100	1100	1100	1100	Y
31	1100	1100	1100	1100	Y
32	1100	1100	1100	1100	Y
33	1100	1100	1100	1100	Y
34	1100	1100	1100	1100	Y
35	1100	1100	1100	1100	Y
36	1100	1100	1100	1100	Y
37	1100	1100	1100	1100	Y
38	1100	1100	1100	1100	Y
39	1100	1100	1100	1100	Y
40	1100	1100	1100	1100	Y
41	1100	1100	1100	1100	Y
42	1100	1100	1100	1100	Y
43	1100	1100	1100	1100	Ý
44	1100	1100	1100	1100	Y
45	1100	1100	950	1000	Y
46	1100	1100	1100	1100	Y
47	1100	1100	1100	1100	Y
48	1100	1100	1100	1100	Y

Notes:

