Arthur Thiris & Assoc. Pty. Ltd



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Structural Design Check Certificate

Project Description: Existing Monorail in the Pump Station at

Hopkins St., Beaudesert

For : Altra9 Pty Ltd

Drawing Number: Sketch and Detail dated 24/4/2012

Our Reference: 12-008-E

Scope of Certificate:

Structural steel monorail beam

Design Criteria:

Safe Working Load 2.0 T

Applied Load – 3035 kg for a max deflection of 14.3 mm

Codes of Practice:

AS 4100 1998 Steel structures

"I hereby certify that the structure under consideration has been designed checked in accordance with the relevant Standard Codes and publications referred to herein and in accordance with the good engineering practice.

On this basis, the structure as constructed is structurally sound."

Signed: Date: 8/5/2012

Arthur Thiris R.P.E.Q. (3325)

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CERTIFICATE OF LOAD TEST AND EXAMINATION

I/D NUMBERS	DESCRIPTION	LOAD APPLIED kN	WORK LOAD LIMIT
HOPKINS ST	FIXED MONORAIL BEAM F/W 2T GIRDER TROLLEY	2210KG	2 TONNE
	E/L: 7700MM		
	LOAD CELL USED: PE43		
	THE ABOVE ITEMS WERE INSPECTED, BEFORE AND AFTER TEST BY A COMPETENT OFFICER AND FOUND TO BE FREE FROM PERMANENT SET, FLAW OR OTHER VISUAL DEFECT. THESE ITEMS HAVE BEEN TESTED IN ACCORDANCE WITH THE TESTING SECTION OF THE STANDARD LISTED BELOW AND HAVE PASSED.		
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Accredited Laboratory
Number: 13553

This Document Shall Not be reproduced Except in full CERTIFICATE NUMBER: :ALSQ15473
TEST SPECIFICATION: :AS1418.18
CUSTOMER REFERENCE: :P1007
OUR REFERENCE NUMBER: :113314
DATE OF TEST: :30.4.2012

CUSTOMER: :RE-PUMP AUSTRALIA P/L

AUTHORIZED SIGNATORY: : RICK BARRETT

LOCATION: 678 Beaudesert Road, Rocklea QLD. 4106.

The tests, calibrations or measurements covered by this document have been performed in accordance with Australian standards.

Unit 1, 1764 Hume Highway Campbellfield, Vic. 3061 Telephone: (03) 9357 9984 Facsimile: (03) 9357 9981

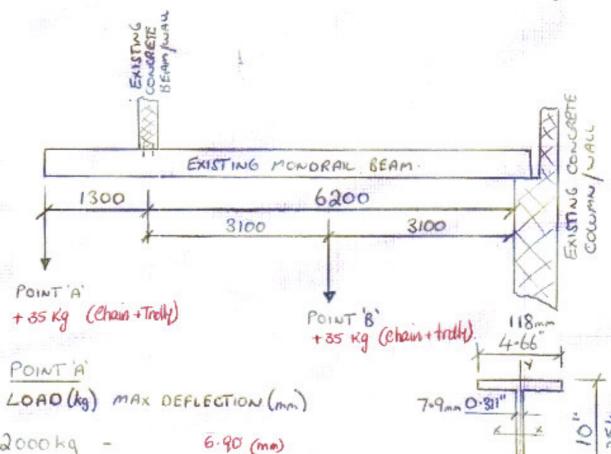
678 Beaudesert Road Rocklea, QLD. 4106 Telephone: (07) 3274 2700

Facsimile: (07) 3274 2600

FRM-101-01 Version 1 6th June 2010

HOPKINS STREET PUMP STATION BEAUDESERT QLD.

- EXISTING MONORAIL CERTIFICATION.
- CAPACITY 2 TON S.W.L.
- MATERIAL 10"x 46" x 25 LB (254mm x 118mm x 37 kg/m)



(19.6KM) 2000 kg -

(29.4KM) 3000 kg -10.30 (mm)

POINT B' LOAD (kg) MAX DEALECTION (mm)

(19.6 KM) 2000 kg - 9.6 (mm) (29.4 KN) 3000 kg - 14.3 (mm). SECTIONAL AREA (102)= 7.46 WEIGHT (Lb/A) = 25.4 MOMENT OF INTERMA 1 x (104) 6.79 SECTION MODULUS wx (102) wy (103) 24.7