

Melbourne Testing Services Pty Ltd

Delivery Address: Postal Address:

1/15 Pickering Road PO Box 5111

Mulgrave Vic 3170 Brandon Park Vic 3150

Telephone: 61 3 9560 2759
Facsimile: 61 3 9560 2769
Email Address: info@melbtest.com.au
Web Address: www.melbtest.com.au

Tube Geometry

286

Pass

Test Report for NBS ERW 48.3mm x 3.2mm Scaffold Tube

Report No: MT-14/465-T#2 **Client:** New Bridge Services Export Div (HK)

Report Date: 3-Jul-14 1318-20, 13, Hollywood Plaza

(mm)

Specimen I.D. NBSS 48.3 x 3.2 Scaff Tube 9610, Hong Kong

Clients I.D. Tube Supplier #2 (painted blue)

Testing Machine: Sintech 60/D

Conditions: The test data as reported is specific to the properties of ERW tube in accordance with AS 1163 and AS/NZS 1576.1. MTS shall therefore take no responsibility for properties of the tube other than those specifically reported herein.

TEST DETAILS

Width:

Test Date:	July 2nd	d 2014	
Extensometer Gauge Length:	L_{e}	(mm)	50.00

h

TENSILE SPECIMEN DETAILS

Width.	$\boldsymbol{\nu}$	(111111)
Thickness:	a	(mm)
Area:	S_{o}	(mm^2)
Gauge Length:	$L_{ m o}$	(mm)
Parallel Length:	$L_{ m c}$	(mm)

12.57		d_o (mm)	48.5	Pass
2.93	AS 1163	t (mm)	2.9	Pass
36.83	C450	o (%)	0.68	Pass
35.00	Tensile	Coa	ating Thick	ness

Ct (g/m)

el Length: $L_{\rm c}$ (mm) 77.00 Requirements	zengui.	20	(11111)	35.00	10115110
	el Length:	$L_{ m c}$	(mm)	77.00	Requirements

TENSILE PROPERTI	ŒS	
------------------	----	--

Tensile Strength:	R_{m}	(MPa)
Proof Stress:	$R_{\rm p0.2}$	(MPa)
Post Fracture Elongation:	\boldsymbol{A}	(%)

	(min)
588	500
510	450
16	14

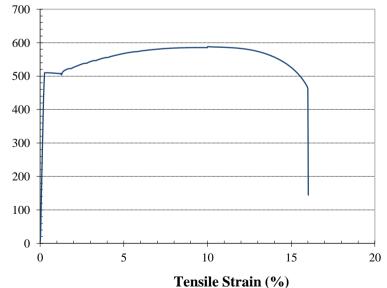
FLATTENING TEST Observations:

The test piece did not crack, fracture or show any sign of failure upon flattening to 75% of d $_o$ and therefore passed the test.

Test Comments:

Tested in accordance with AS 1391-2007 and AS 1163-2009. The mechanical properties for the 48.3mm x 3.2mm Circular Hollow Section tube meet the requirements for AS 1163 C450 Grade tube. The scaffold tube as tested and reported herein exceeds the requirements of AS/NZS 1576.1 whereby the minimum allowable yield strength for ERW tube is 250MPa. Tensile tests covered by MTS scope of nata accreditation. Geometry and coating thickness tests not covered by scope of accreditation.

Tensile Stress (MPa)



Rod Wilkie

Authorised Signatory

