



SETSCO SERVICES PTE LTD

18 Teban Gardens Crescent
Singapore 608925
Tel : (65) 6566 7777
Fax: (65) 6566 7718
Website: www.setsco.com
Business Reg. No. 196900269D

TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

Your Ref: - Our Ref: MM-31239/CKT/2 Date: 29 November 2012

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Subject : Testing of GFRP Rebar submitted by FiReP Rebar AG on 12 November 2012.
Tested For : **FiReP Rebar AG**
Alte Jonastrasse 83
CH-8640 Rapperswil
Switzerland
Attn: Mr. Marc Schurch

Date and Place of Test : 22 November 2012 at Setsco Laboratory, Singapore

Method of Test : Tension Load Test
The test sample was clamped on the Universal Testing Machine in a vertical position. Tension load was applied at a rate of 220MPa/min until failure. Maximum load and E-Modulus were then recorded.

Description of Sample : One (01) piece of GFRP Rebar with approximately total length of 1500mm (Refer to Photograph 1 attached) were received as follows:

S/No	Description	Qty
01	Ø20 GFRP Rebar	01

Results : Tension Load Test
Refer to Table attached.

Witnesses : Mr. Arkar (LYL Consultant)
Ms. Jennifer (GS E&C)
Mr. Ben Ji Kzm (GS E&C)
Ms. Tay Li Ying (Basler & Hofmann)

CHEW KENG TIONG
Testing Officer

LAWRENCE LIM
Executive Engineer (Mechanical Testing)
Mechanical Technology Division

ReportsOthers2012/meiyj

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Results:

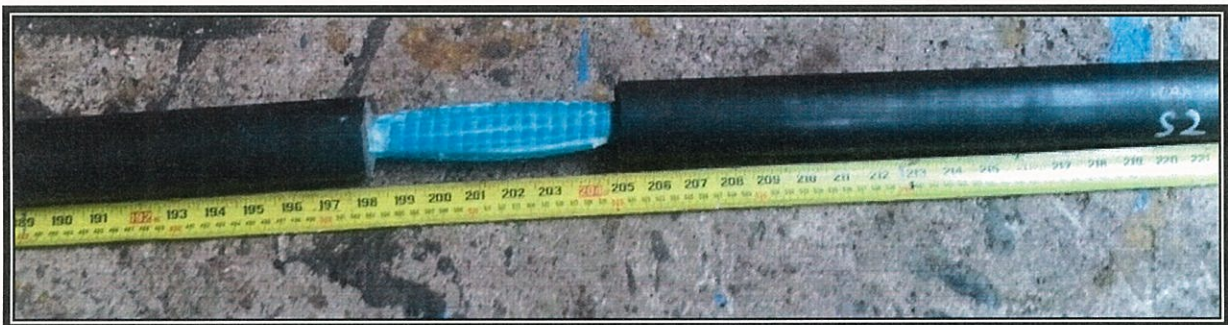
Table 1 : Tension Load Test

Sample Reference	Ø20mm GFRP Rebar (S2020002-14001/09/12)
Nominal Cross-sectional Area (mm ²) #	314
Overall Length (mm)	1500
Exposed Length (mm)	160
Maximum Load (kN)	352.7
Tensile Strength (N/ mm ²)	1123.2
Tensile E-Modulus (GPa)	64
Mode of Failure	Failure of the bar (See Photograph 2 attached)

- Based on Client's Sample Reference.



Photograph 1 : Show sample submitted



Photograph 2 : Show tested sample