

**SETSCO SERVICES PTE LTD**

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TEST REPORT

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

Your Ref: -

Our Ref: MM-27124/LL

Date: 27 March 2012

Page 1 of 2

Subject : Testing of GFRP Rebar Ø30mm submitted by FiReP Rebar AG on 23 March 2012.

Tested For : **FiReP Rebar AG**
Alte Jonastrasse 83
CH-8640 Rapperswil
Switzerland

Attn: Mr. Marc Schurch

Date and Place of Test : 27 March 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 180MPa/min until failure. Maximum load and E-Modulus were then recorded.

Description of Sample : Three (03) pieces of GFRP Rebar Ø30mm with approximately total length of 1500mm (Refer to Photograph 1 attached) were received as follows:

S/No	Description	Qty
01	Ø30 GFRP Rebar	03

Results : Tension Load Test
Refer to Table attached.

Witnesses : Mr. Ananth.Chandran (Leighton Offshore)
Mr. Ryan Wang (GWC)
Mr. Tay Li Ying (Basler & Hofmann Singapore Pte Ltd)

LAWRENCE LIM
Testing Officer

CHENG KWANG MENG
Manager (Mechanical Testing)
Mechanical Technology Division

CC: BASLER & HOFMANN SINGAPORE PTE LTD
175A Bencoolen Street #09-01
Burlington Square
Singapore 189650

Attn: Ms. Tay Li Ying

ReportsOthers2012/meiji

Terms & conditions:

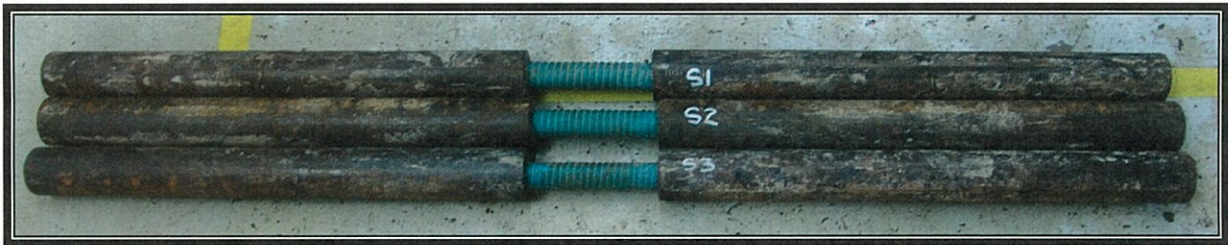
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Results:

Table : Tension Load Test

Sample Reference	Ø30 GFRP Rebar		
	S1	S2	S3
Nominal Cross-sectional Area (mm ²) #	707		
Overall Length (mm)	1500		
Exposed Length (mm)	165	162	165
Maximum Load (kN)	753.7	740.5	739.0
Tensile Strength (N/ mm ²)	1066.1	1047.4	1045.3
Tensile E-Modulus (GPa)	68	72	75
Mode of Failure	Failure of the bar (See Photograph 2 attached)		

- Based on Client's Sample Reference.



Photograph 1 : Show samples submitted



Photograph 2 : Show tested samples

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[Handwritten signature]