

FUGRO TECHNICAL SERVICES LIMITED

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Materialab

Client Ref. : --
Report No. : 133191ST130699

Page 1 of 1

REPORT ON WATER ABSORPTION TEST OF PALMECO MASTER BOARD

Information Supplied by Client

Client : Palmeco Tech Ltd.
Project : Testing of Palmeco Master Board
Sample Description : Palm fibre with Magnesia cement
Sample Size : 100 x 100 x 12mm
Board Density : 1000kg/m³


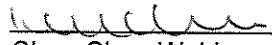
Laboratory Information

Lab. Sample I.D. : ST130699/1-3
Date Received : 28 October 2013
Date Test Started : 14 November 2013
Date Test Completed : 16 November 2013
Test Method : ASTM C1185-08, Clause 9

Test Results

Lab. Sample I.D.	Dry mass (g)	Saturated mass (g)	Water absorption (%)
ST130699/1	114.45	141.25	23.42
ST130699/2	108.59	134.76	24.1
ST130699/3	107.93	134.02	24.17

Remark : The test results relate only to the samples tested.

Checked by :  Date : 9/12/2013 Certified by :  Date : 9/12/2013
Chan Chun Wai Ivan
Manager (Product Testing Laboratory)

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Client Ref. : --
Report No. : 133191ST130699(1)

Page 1 of 1

REPORT ON WATER RESISTANCE TEST OF PALMECO MASTER BOARD

Information Supplied by Client

Client : Palmeco Tech Ltd.
Project : Testing of Palmeco Master Board
Sample Description : Palm fibre with Magnesia cement
Sample Size : 305 x 305 x 12mm
Board Density : 1000kg/m³



Laboratory Information

Lab. Sample I.D. : ST130699/4
Date Received : 28 October 2013
Date Test Started : 14 November 2013
Date Test Completed : 14 November 2013
Test Method : ASTM C 473, Clause 20

Test Results

Lab. Sample I.D.	Original Weight (g)	Final Weight (g)	Water absorption (%)
ST130699/4	1118.90	1168.79	4.46

Remark : The test results relate only to the samples tested.

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Manager (Product Testing Laboratory)

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Client Ref. : --
Report No. : 133191ST130699(2)

Page 1 of 1

REPORT ON DETERMINATION OF BENDING STRENGTH OF PALMECO MASTER BOARD**Information Supplied by Client**

Client : Palmeco Tech Ltd.
Project : Testing of Palmeco Master Board
Sample Description : Palm fibre with Magnesia cement
Nominal thickness : 12 mm
Board Density : 1000kg/m³

Laboratory Information


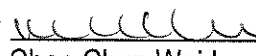
Lab. Sample I.D. : ST130699/5-14
Date Received : 28 October 2013
Date Test Started : 21 November 2013
Date Test Completed : 23 November 2013
Test Method : ASTM C1185-08
Span of Support : 254mm
Speed Rate : 25mm/min
Condition : In water at 23°C for 48 hours

Test Results

Lab. Sample I.D.	Test Direction	Thickness of Sample (mm)	Width of Sample (mm)	Maximun Force (N)	Flexual Strength (MPa)
ST130699/5	X	11.84	150.56	421.5	7.61
ST130699/6	X	12.04	150.51	448.5	7.83
ST130699/7	X	12.15	150.62	448.5	7.69
ST130699/8	X	12.12	150.47	470.0	8.10
ST130699/9	X	12.02	149.97	415.0	7.30
			Average	440.7	7.71
ST130699/10	Y	12.08	150.51	426.5	7.40
ST130699/11	Y	12.05	150.58	475.0	8.28
ST130699/12	Y	12.09	150.49	478.5	8.29
ST130699/13	Y	12.08	150.70	475.0	8.23
ST130699/14	Y	12.06	149.71	478.5	8.37
			Average	466.7	8.11

Remarks :

- 1.) The test results relate only to the samples tested.
- 2.) The test configuration and samples after test are shown in the photographs on page 2 of this report.

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Client Ref. : --
Report No. : 133191ST130699(3)

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REPORT ON DETERMINATION OF FLEXURAL STRENGTH OF PALMECO MASTER BOARD

Information Supplied by Client

Client : Palmeco Tech Ltd.
Project : Testing of Palmeco Master Board
Sample Description : Palm fibre with Magnesia cement
Nominal thickness : 12 mm
Board Density : 1000kg/m³

Laboratory Information



Lab. Sample I.D. : ST130699/15-18
Date Received : 28 October 2013
Date Test Started : 20 November 2013
Date Test Completed : 21 November 2013
Test Method : ASTM C 473, Clause 11
Span of Support : 356mm
Speed Rate : 25mm/min

Test Results

Lab. Sample I.D.	Test Direction	Thickness of Sample (mm)	Width of Sample (mm)	Maximun Force (N)	Flexual Strength (MPa)
ST130699/15	x	12.07	304.73	845	10.16
ST130699/16	x	12.09	305.92	780	9.32
			Average	813	9.74
ST130699/17	Y	12.06	306.23	922	11.05
ST130699/18	Y	12.52	306.35	883	9.82
			Average	903	10.44

Remarks :

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