

Test Report
Concrete Unit Water Absorption

Customer Name : Mr. Arun Purandare

Date of Issue : 20-Jul-17

Description : Size-295x150x20mm

Date of Testing : 13-Jul-17

Type of Unit : Concrete Block

OBSERVATION & CALCULATIONS :

Sr. No.	ID Mark	Wet Weight (g)	Dry Weight (g)	Water Absorption %	Avg. Water Absorption %
1	---	2007	1859	7.96	***

Reference:

- 1) Testing as per IS 2185(Part-I) 2005

Note :

- 1) The test reports and results relate to the particular specimen/sample(s) of the material as delivered/received and tested in the laboratory.
2) Any test report shall not be reproduced except in full, without the written permission from Durocrete.

Remarks :

- 1) The water absorption shall not be more than 10% by mass.
3) *** Sample constitutes of minimum three specimens for Water Absorption.

Authorized Signatory


20/7/2017

Vishwas Kulkarni
(VP-Techincal)

Checked by : Pooja Gijare

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Test Report
Ferrocrete panel Load Test

Customer Name : :Arun Purandare
Office Address : :Karvenagar , Pune .
Site Name : : R & D
Testing Location : :NA

Date of Issue :17-7-2017
Record No. :OT-2017
Reference No. :Other
Bill No. :NA
Date of testing :NA
Test Request No :NA

Description of item tested :Ferrocrete sheet 0.6 X0.9 m
1.2mm dia wire mesh

Observations

No load conditions		
Reading no.	Time	Dial Gauges readings(mm)
		O8220
1st Reading	11.30 AM	0
1st Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	69.55	O8220
Time	12.30 PM	1.16
2nd Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	139.15	O8220
Time	12.50 PM	1.52
3rd Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	208.68	
Time	12.50 PM	1.80
4th Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	277.75	
Time	12.30 PM	2.09
5th Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	347.28	
Time	12.50 PM	2.32
1st Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	277.75	
Time	2.15 PM	2.17
2nd Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	208.68	
Time	2.25 PM	1.94
3rd Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	139.15	
Time	2.35 PM	1.65
4th Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	69.55	
Time	2.45 PM	1.30

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No load conditions		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	0	
Time	2.55 PM	0.75

After the process of loading and unloading is finish , sample is reloaded to full load condition and further the load was increased in increments till failure is obtain .

Full Load Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	347.28	
Time		2.32

1st Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	487.71	
Time		2.64

2nd Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	626.44	
Time		2.91

3rd Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	766.12	
Time		3.13

4th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	905.53	
Time		3.31

5th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1044.09	
Time		3.51

6th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1182.79	
Time		3.81

7th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1323.24	
Time		4.08

8th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1461.49	
Time		4.21

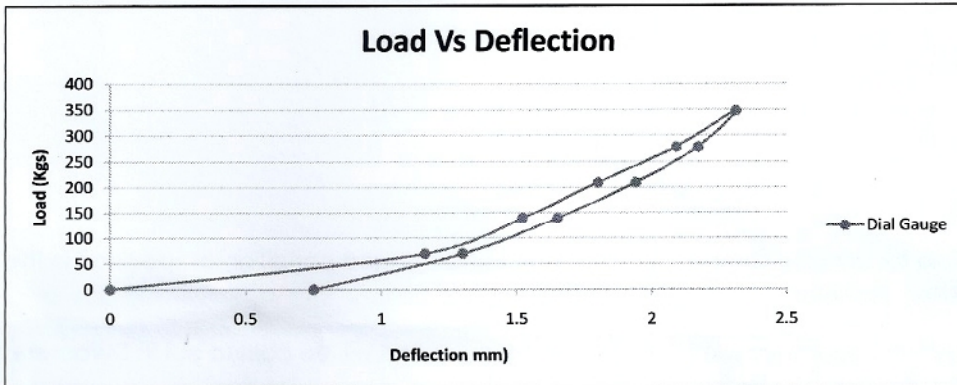
At 8 increment no crack was seen , a no effect was seen loading was stopped at 1461.49 kgs with final deflection of 4.21 mm.

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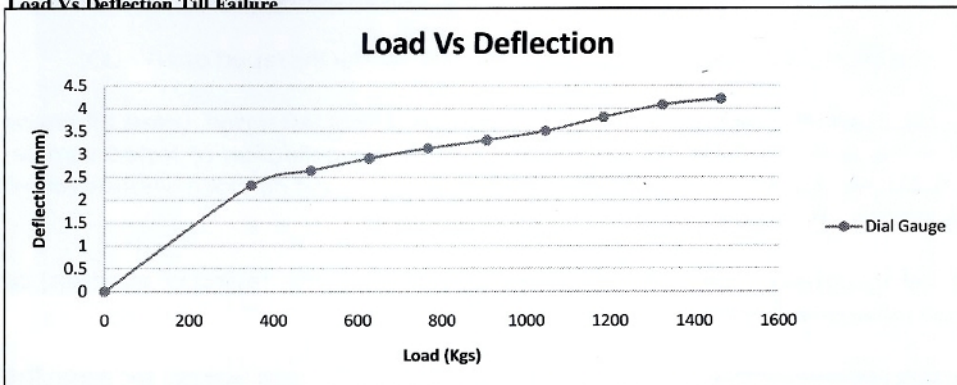


Graphical Representation

Load Vs Deflection Graph



Load Vs Deflection Till Failure



Formula :

Flexural Strength of the panel $= \frac{3PL}{2BT^2}$
 $\frac{3 \times 14341 \times 545}{2 \times 545 \times 25 \times 25}$
34.41 N/mm²

Authorised Signatory-

Vishwas Kulkarni
(VP Technical)

Checked By - Neeta Nivangune

--End of Report--

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Test Report
Ferrocrete panel Load Test

Customer Name : Arun Purandare
Office Address : Karvenagar, Pune .
Site Name : NA
Testing Location : NA

Date of Issue 17-7-2017
Record No. Other
Reference No. NA
Bill No. NA
Date of testing 17-5-2017
Test Request No NA

Description of item : Ferrocrete sheet 0.6 X0.9 m
1.6mm dia wire mesh

Observations

No load conditions		
Reading no.	Time	Dial Gauges readings(mm)
		O8220
1st Reading	11.30 AM	0

1st Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	69.72	O8220
Time	12.30 PM	0.68

2nd Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	138.95	O8220
Time	12.50 PM	1.07

3rd Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	208.84	
Time	12.50 PM	1.28

4th Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	280.2	
Time	12.30 PM	1.8

5th Loading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	349.86	
Time	12.50 PM	2.01

1st Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	280.2	
Time	2.15 PM	1.97

2nd Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	208.84	
Time	2.25 PM	1.68

3rd Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	138.95	
Time	2.35 PM	1.5

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4th Unloading Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	69.72	
Time	2.45 PM	1.26
No load conditions		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	0	
Time	2.55 PM	0.61

After the process of loading and unloading is finish , sample is reloaded to full load condition and further the load was increased in increments till failure is obtain .

Full Load Condition		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	349.86	
Time		2.03

1st Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	419.13	
Time		2.34

2nd Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	489.17	
Time		2.68

3rd Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	558.74	
Time		2.78

4th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	627.56	
Time		2.83

5th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	697.61	
Time		2.91

6th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	767.88	
Time		2.97

7th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	835.88	
Time		3.02

8th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	906.07	
Time		3.11

9th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	975.25	
Time		3.15

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10th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1043.9	
Time		3.19

11th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1112.78	
Time		3.25

12th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1183.23	
Time		3.29

13th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1251.42	
Time		3.34

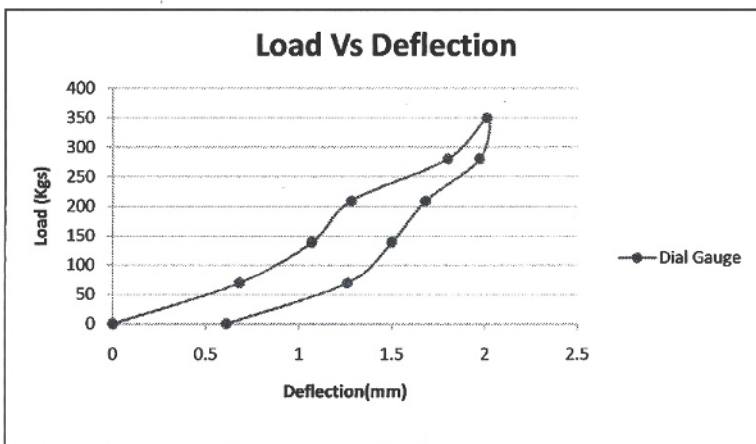
14th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1320.8	
Time		3.39

15th Increment		
Date :11.05.2017		Dial Gauge Readings (mm)
Total Load (Kgs)	1390.4	
Time		3.44

At 10th increment minor crack was seen , as after no effect was seen loading was stopped at 1390.4 kgs with final deflection of 3.44 mm.

Graphical Representation

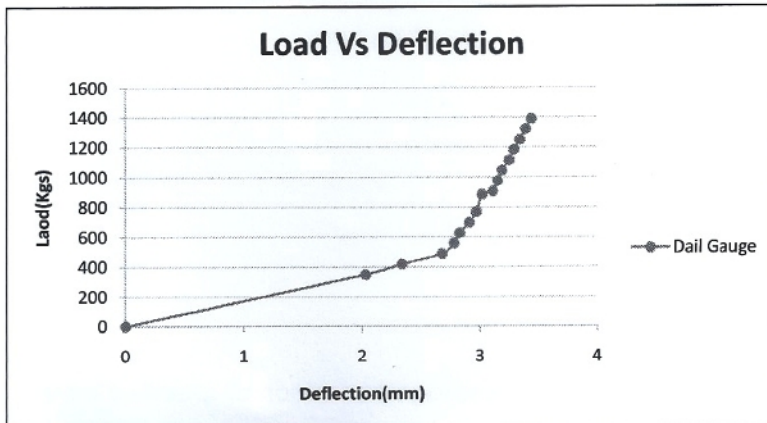
Load Vs Deflection Graph



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Load Vs Deflection Till Failure



Formula :

Flexural Strength of the panel = $\frac{3PL}{2BT^2}$
3X13640X545/2X545X25X25
32.75 N/mm²

Authorised Signatory-

Vishwas Kulkarni
(VP Technical)

Checked By – Neeta Nivangune

--End of Report--

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