



Ref: SASTRA/SoCE/ROOFTILES /RESULT/06032019-02

07-03-2019

**Dr.R. Chandramouli**  
Registrar

To

Er.S.Nandhakumar, B.E., MIE., FIV  
Vermi Plast ,  
19, Mothilal Street,  
Kumbakonam 612 001.

Dear Sirs,

Sub: Results of Laboratory test- Cool Roof Tiles  
Ref.: Your letter dated 13-02-2019

With reference to the above, please find enclosed the report on the test conducted for the cool roof tiles supplied by you

Yours faithfully,

(Dr.R.Chandramouli)





07-03-2019

Name of work: Vermi Plast – Cool Roof Tiles

TEST RESULTS OF CONCRETE CUBES

Date of Testing: 23-02-2019 and 02-03-2019

Sample Id.	Size in mm	Water Absorption (%)	Flexural Strength (MPa)
VP-S1	300 x 300 x 15	4.35	7.08
	300 x 300 x 15	6.73	5.55
	300 x 300 x 15	5.53	6.11
VP-S2	250 x 250 x 10	4.97	3.47
	250 x 250 x 10	4.71	6.44
	250 x 250 x 10	3.84	4.95
VP-S3	250 x 250 x 15	5.59	11.02
	250 x 250 x 15	5.70	8.57
	250 x 250 x 15	6.02	10.71

Tested and report Prepared by:

V. Rathinakumar  
07/03/19  
(Dr.V.Rathinakumar)  
Asst. Prof./SoCE



Dr.K.Saravana Rajamohan  
07/03/19  
(Dr.K.Saravana Rajamohan)  
Dean/SoCE





भारत सरकार Government of India  
राष्ट्रीय परीक्षण शाला (द.क्षे.)  
**NATIONAL TEST HOUSE (SR)**  
तरमणी, चेन्नई - 600 113. Taramani, Chennai - 600 113.  
Phone : 22432374, 22431157 Fax : 22433158 email : nthsr@tn.nic.in

## परीक्षण प्रमाण पत्र TEST CERTIFICATE

INTERIM/FINAL REPORT

परीक्षण प्रमाण पत्र सं Test Certificate No NTH(SR)/CIV(G)/2019/00665	जारी होने की तिथि Date of Issue 15/03/2019	कोड नं Code No 1552471408411	पृष्ठ Page 1	पृष्ठों की संख्या No of Pages 2
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जिसे जारी करना है  
Issued To : VERMI PLAST COOL ROOF TILES

पता  
Address : M/s Vermi Plast Cool Roof Tiles, 19, Mothilal st, Kumbakonam-612001.

ग्राहक का संदर्भ सं एवं दिनांक  
Customer's Ref. No. : NIL Date: 13/03/2019

पंजिका सं एवं दिनांक  
Register No & Date : 00665/NTH(SR)/CIV(G)/13/03/2019

परीक्षण सामग्री का विवरण  
Description of Test Item : Two samples described as "Vermi Plast Cool Roof Tiles of size "254mm x 254mm x 15mm" and Size 300mmX300mmX15mm

परीक्षण सामग्री का पहचान  
Identification of Test Item : Vermi Plast Cool Roof Tiles

नमूना का विनिर्दिष्टि (यदि हो)  
Product Specification (If any) : Nil

नमूना प्राप्ति की तिथि  
Date of Receipt of the Test Item : 13/03/2019

कार्य सम्पादन की तिथि  
Date(s) of Performance of Tests : From: 15/03/2019 To: 15/03/2019

व्यावहृत प्रणाली का पहचान  
Method(s) used for Test : On the lines of IS 2690(1)-1993.

नमूना प्रक्रिया जहाँ प्रासंगिक हो  
Sampling Procedure where relevant : NA.


Tested By

  
Bhooma Devi.S  
SO Mechanical

Checked By

  
S. Murali  
SO Civil

Approved By

  
G. N. Sudhakar  
Scientist- D (NDT)

Notes : 1. The results relate only to the items tested or calibrated

2. The test/calibration certificate shall not be reproduced except in full, without written approval of the authority





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Test Certificate No.	Date of Issue:	Code No.	No. of Pages:
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**Annexure**

As desired, the Roof tiles sample was subjected to the following tests with the results noted below :

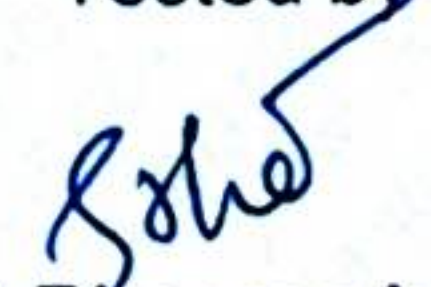
**Sample 1. Size: 254mm X 254mmX15mm**

Sl. No.	Nature of tests	Results obtained
<b>1.</b>	<b>Test for Water Absorption</b> (as per cl. 6 of IS 2690(1)-1993)	
1.1	Average water absorption by mass , percentage	9
<b>2.</b>	<b>Test for Flexural strength</b> (as per cl. 7 of IS 2690(1)-1993)	
2.1	Average Modulus of rupture, N/mm <sup>2</sup>	4

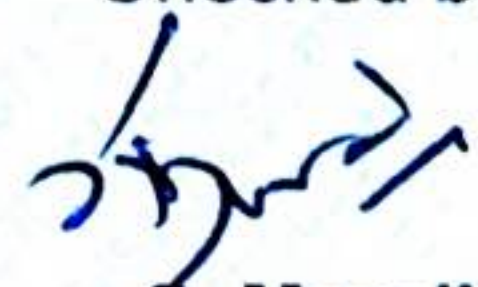
**Sample 2. Size: 300mm X 300 mmX15mm**

Sl. No.	Nature of tests	Results obtained
<b>1.</b>	<b>Test for Water Absorption</b> (as per cl. 6 of IS 2690(1)-1993)	
1.1	Average water absorption by mass , percentage	8
<b>2.</b>	<b>Test for Flexural strength</b> (as per cl. 7 of IS 2690(1)-1993)	
2.1	Average Modulus of rupture, N/mm <sup>2</sup>	4

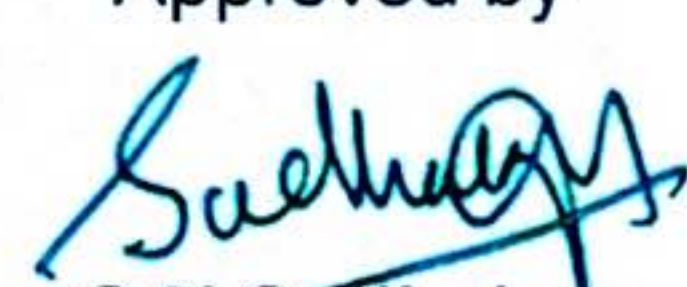
Tested by

  
**S. Bhoomadevi**  
Scientific Officer (Mechanical)

Checked by

  
**S. Murali**  
Scientific Officer (Civil)

Approved by

  
**G.N. Sudhakar**  
Scientist D(NDT)

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