



**NIRMA**  
**UNIVERSITY**

**INSTITUTE OF TECHNOLOGY**

No. : NU/IT/MECH/TIL/2018\_07/ 73C  
13-7-18

**National Laboratory for Testing and Development of Thermal Insulations**

*A Project under the National Facilities in Engineering and Technology with Industrial  
Collaboration (NAFETIC) Scheme of AICTE*

### TEST CERTIFICATE

*Name of industry* : M/s Rivashaa Eco Design Solutions Pvt. Ltd.  
3<sup>rd</sup> Floor, Royale Manor, Near Rangwala Tower, Law Garden,  
Ellis Bridge, Ahmedabad - 380006, Gujarat, India  
*Kind Attn:* **Mr. Udeet J Banker**, Director


*Test* : Determination of thermal conductivity

*Test method* : Guarded Hot Plate Method as per ASTM C177 and ISO 8302


*Specimen details* : Thermal Insulation Flooring Block  
Thermal Insulation Flooring Block is a composite material made from  
Cement, Fly Ash and Expanded Clay Aggregate  
Moisture content: Nil (Sample preheated at 70 °C in oven for 24 hours  
before testing for thermal conductivity)

*Test Results* :

Density ( <i>as tested</i> )	608.377 kg/m <sup>3</sup>
Thermal conductivity at 30.2°C specimen mean temperature	0.1779 W/mK
Thermal Resistance for 40 mm thickness	0.2305 m <sup>2</sup> K/W

  
**Professor  
Incharge**

  
**Professor & Head,  
Mechanical Engineering Department**

  
**Additional Director  
School of Engineering  
Institute of Technology**

Date: 13/07/2018



**Institute of Technology, Nirma University**