

Mahindra TERI Centre of Excellence (MTCoE) For Sustainable Habitat



TC-8746



Premier laboratory for
THERMAL PARAMETER TESTING

The Mahindra TERI Centre of Excellence (MTCoE) for Sustainable Habitat is a joint research initiative of Mahindra Lifespaces and TERI. It focuses on developing science-based solutions for India's future-built environment, intending to reduce the energy footprint of the real estate industry. The MTCoE lab, a SVA-GRIHA 5-star rated facility, has received accreditation for testing thermal properties of building materials from National Accreditation Board for Testing and Calibration Laboratories (NABL).



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WHY MTCoE?



Accredited Quality Systems:
IS/ISO/IEC-17025:2017,
ISO 9001 Certified

**Advanced equipments with
excellent precision and
accuracy**



NABL accredited lab

**Enhanced product
credibility**



**Well organized
"state-of-the-art" facility**

**Special consideration for
Academic Institutions**



**Platform to boost product
outreach amongst stakeholders**

**Supplementary benefits in
bulk quantity testing**



OUR MATERIAL TESTING SERVICES

Thermal
Conductivity
(*K-Value*)

Thermal
Diffusivity
(α -Value)

Specific Heat
Capacity (*C*)

Thermal Emittance
(ϵ -Value)

Thermal
Transmittance
(*U-Value*)

Thermal Resistance
(*R-Value*)
and **more....**

Types of Materials Tested by Us

BRICKS & BLOCKS



POWDER



GELS



LIQUIDS



MATERIAL ASSEMBLIES



GLAZING & **MORE..**



Tested more than 150 vernacular, contemporary and innovative materials such as:

Strawclay Brick, Afghanistan Traditional, Brick, Insulating Fabric, Low Carbon Plaster, Agrowaste Cube, Glass Tile and **many more....**



HOT DISK THERMAL CONSTANT ANALYSER



Thermal Constant Analyser rapidly and accurately measures the thermal conductivity, thermal diffusivity and specific heat capacity of a wide range of materials and encompasses high level of accuracy with material size flexibility.

The material testing by Transient Plane Source technology is based on ISO:22007-2.



GUARDED HOT BOX

The Guarded Hot Box is used to measure the Thermal Transmittance (U-value) and Thermal Resistance (R-value) of building material assemblies by steady-state method as per ASTM C 1363.



EMISSOMETER

The existing emissometer model AE1 with the Scaling Digital Voltmeter is a special purpose instrument for measuring hemispherical emittance in compliance with ASTM C1371. The instrument is applicable for both flat as well as non-flat surfaces for thermal emittance (ϵ -value) measurements. For installed surfaces emittance can be measured in place.



CONTACT US

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Mahindra
LIFESPACES

