

Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

Steady-State Heat Flux Measurements and Thermal Transmission Properties by Guarded-Hot-Plate Apparatus

REPORT NO. : 2014030887 DATE : 14/04/2014
 WEB REQUEST NO. : DCL-25032014-0111
 REQUEST NO. : 2014017613 SAMPLE NO. : 2014025398
 PROJECT NO. : PS-1661
 PROJECT NAME : TESTING SERVICE FOR LECA BUILDING MAT. TRADING LLC
 CONSULTANT : NO SPECIFIC CONSULTANT
 CONTRACTOR : NO SPECIFIC CONTRACTOR
 LOCATION : LECA - UAE
 SOURCE : NOT GIVEN
 SAMPLE DESCRIPTION : LIGHT EXPANDED CLAY AGGREGATE(LECA)
 SAMPLE TYPE : LECA CONCRETE
 SUPPORT / FACING : NIL
 NOM. THICKNESS (mm) : 50 NOM. DENSITY (kg/m³) : NG

| | | | | | |
|--------------------------|--------------|----------|---------|------------|------|
| Date of Sampling | : 24/03/2014 | Time | : 10:45 | Lot No. | : NG |
| Date of Receiving Sample | : 24/03/2014 | Time | : 11:15 | Lot Size | : NG |
| Size of Sample | : 2 Nos. | Area No. | : - | Sender No. | : NG |

APPARATUS : TAURUS HOTPLATE APPARATUS [TLP 800-S]

| | |
|---------------------------------|------------|
| SIZE OF PLATE (mm) | 500 |
| SHAPE OF PLATE | SQUARE |
| ORIENTATION OF PLATE | HORIZONTAL |
| SINGLE OR DOUBLE SIDE OPERATION | SINGLE |
| SECONDARY GUARDING DETAILS | NA |
| FILL GAS PRESSURE (Pa) | NA |

CALIBRATION DETAILS

| | |
|---------------------------------------|---|
| TYPE OF MATERIAL USED FOR CALIBRATION | CERTIFIED REFERENCE MATERIAL 1RMM-440 |
| DATE OF CERTIFICATION | MARCH - 2010 |
| SOURCE OF CERTIFICATION | INSTITUTE OF REFERENCE MATERIALS AND MEASUREMENTS |

SPECIMEN

DEGREE OF HOMOGENITY OR ANISOTROPY : LIGHT EXPANDED CLAY AGGREGATE CONCRETE
 SPECIMEN CONDITIONING TEMP; HUMIDITY & DURATION : 35±2°C, 60±5% RH, 24 h

| Specimen No. | BEFORE CONDITIONING | | | | AFTER CONDITIONING | | | | AFTER TEST |
|--------------|---------------------|------------|----------------|------------|--------------------|------------|----------------|------------|------------|
| | Length (mm) | Width (mm) | Thickness (mm) | Mass (Kg.) | Length (mm) | Width (mm) | Thickness (mm) | Mass (Kg.) | Mass (Kg.) |
| 1 | 200.4 | 199.4 | 50.1 | 1.6404 | 200.3 | 199.5 | 50.0 | 1.6480 | 1.6480 |

**AUTHORIZED BY
HEAD OF UNIT**

This report is computer approved, it does not require any signature

