

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

