

Master Thesis Brief Description

Thesis Title	Use of dark chamber for measurement of the thermal performance of building products
Programme of Studies	MSc in Energy Systems and the Built Environment
Course	MES 580 Master Thesis
Area of Study	Experimental Building Physics – In-situ Measurements
Student's Name	Constantinos Vassileiou
Students Reg. Number	1841
Supervisor	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Civil Engineering Department
Supervisory Committee	Dr. Petros Christou, Ass. Professor, Civil Engineering Department Dr. Demetris Nicolaides, Lecturer, Civil Engineering Department
Semester	Spring Semester 2016
Short Description	This Master Thesis presented a new experimental apparatus named Dark Chamber for measurement of the thermal performance of building materials. The use of the chamber aimed the evaluation of the thermal performance of building elements with accuracy. This Dark Chamber can evaluate not homogenous building material such us composite walls, windows frames and thermal bridges of the buildings. In terms of this study, the Dark Chamber apparatus was designed, constructed and also calibrated through the preliminary measurements.