

## Senior Thesis Brief Description

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<b>Thesis Title</b>	<b>Life Cycle Assessment of selected building materials applied in Cyprus</b>
<b>Programme of Studies</b>	BSc in Civil Engineering, Frederick University, Cyprus
<b>Course</b>	CEP 400 Senior Project
<b>Area of Study</b>	Computational Building Physics – Life Cycle Assessment
<b>Student's Name</b>	Panagiotis Ili
<b>Students Reg. Number</b>	6020
<b>Supervisor</b>	Dr.-Ing. Paris A. Fokaides, V. Lecturer, Civil Engineering Department
<b>Supervisory Committee</b>	Dr. Petros Christou, Ass. Professor, Civil Engineering Department Dr. Demetris Nicolaides, Lecturer, Civil Engineering Department
<b>Semester</b>	Spring Semester 2014
<b>Short Description</b>	The subject of the thesis concerned the implementation of life cycle assessment (LCA) for selected building materials used in Cyprus. In terms of this study a comprehensive literature review was conducted with regard to building materials used in Cyprus. The study focused on materials manufactured in Cyprus and mainly used in the local construction industry. All major manufacturing steps were defined and described in terms of a comprehensive life cycle inventory analysis. The main input of natural resources in all construction steps was quantified and served as input to the LCA analysis. Useful conclusions with regard to the environmental performance of building materials in Cyprus resulted from this study.