
The project comprises the creation of a framework diagramming the decision process involved in the design of vegetated roofing systems. Through a series of expert interviews and case studies funded by GreenTech, the available knowledge will be captured and organized in order to determine the critical parameters affecting design decisions.

The study begins with a mapping of the factors and interactions that determine the design of vegetated roofs, followed by a validation of this framework through correlation with available quantitative data and experts' methodologies.

A. Storm Water  B. Energy  C. Acoustics  D. Structure  E. Cost  F. Compliance

Following the creation and validation of the framework that forms the body of this dissertation, it will be possible to generate an optimization model for the design of vegetated roofs based on specific and relevant input data. The ultimate goal of continuing research into the optimization of green roofing design is the creation of an interactive, computerized tool to assist roof designers in the selection of vegetated roofing systems.

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