

TEC-TIMBER – Development of techniques for recognising the properties of structural timber in old buildings

Summary

The research team was made up of the two researchers initially proposed, M. Dulce Franco Henriques from ISEL (DH) and Inês Flores-Colen from IST (IF). During the course of the work, Miguel Pereira Clara, a Master's student from IST (AM), who developed his Master's dissertation as part of this project, was added to the team. A second master's student was added at the end.

Following the good organization and distribution of tasks, the project ran strictly as planned for 10 months, from May 2019 to March 2020, when mandatory confinement was necessary. In May 2020, it was still possible to return to the laboratory for the final data collection.

Strengths:

1. The high quality of the AM, who managed to fulfill all the objectives of the experimental work, both in the laboratory and in the field and who developed a dissertation of very high scientific quality, under the guidance of the two researchers, earning a grade of 18 (eighteen) and also submitting two articles for publication in international scientific journals.
2. The availability of material and equipment at ISEL's Wood Laboratory, which enabled

the planned non-destructive tests to be carried out.

3. The availability of a building site with suitable conditions for fieldwork and the openness of those responsible for it.
4. The excellent acceptance by the technical community of the subjects and results developed with the project, published in the online lecture.

Weaknesses:

1. The breakdown of the Pilodyn equipment meant that a new unit had to be purchased and the ultrasound equipment planned for the project had to be abandoned.
2. The mandatory lockdown period prevented DH from traveling to Granada to present his scientific work.

Despite the weaknesses pointed out, the results were largely achieved. As evidence, one more article was published than planned, the dissemination session was held, one master's thesis was completed and the next one was started.



Figure 1. Lecture online "FUNDEC Expert Talks" as part of the TEC-TIMBER research project on June 8, 2020: 133 attendants.

Project Reference

IPL/2019/TEC-TIMBER

Leading Institution

ISEL – Instituto Superior de Engenharia de Lisboa (Portugal)

Partners

IST-ID – Associação do Instituto Superior Técnico para a Investigação e Desenvolvidos (Portugal)

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CERIS Research Team

Inês Flores-Colen

Funding

IPL – Instituto Politécnico de Lisboa

Period

2019-2020

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4 997.00€

CERIS

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Project Website

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