

COST IE0601
Focused meeting

Structural Typologies and Conservation of Roof Timber Structures





WoodCultHer
 for conservation of cultural heritage

Strength assessment of old timber structural members

Strategy proposed within the framework of a national project

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Safety evaluation of timber structures through non-destructive methods and stochastic analysis
 FCT PROJECT PTDC/ECM/66527/2006

Safety assessment of timber structures

First evaluation (global) • Timber properties - principles of strength grading
 • Structural evaluation - EC5

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Identification of critical members and connections

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Second evaluation (local)

Main goal of the project

- Stochastic model of lengthwise variation of strength and stiffness of a timber member
- Probabilistic structural safety model