

# LE COSTRUZIONI STORICHE DI LEGNO STRUTTURALE PORTANTE. UN CONTRIBUTO AL RIUSO. LA SCHEDA DI CONOSCENZA E VALORIZZAZIONE

DANIELA PITTALUGA, GEROLAMO STAGNO, LINDA SECONDINI, CHIARA MARVALDI

DA&D, Scuola Politecnica, Università degli Studi di Genova

E-mail: Daniela.pittaluga@arch.unige.it

## **Abstract.**

The wooden structures could represent a resource in emergency or vulnerability conditions such as seismic events, due to its versatility, rapidity of construction, and good response to stress.

The versatility of this material means that the wooden objects are the most re-used as well as the structures that can be used at different times and for different purposes. The reuse has always been a prerogative of the ancient man with the intent to economize and profit the most of what is in his possession; same as past and even today, the tendency is to reuse what is already present to enhance and make it usable.

But, how one can combine the reuse while respecting of historical constructions? Can the historical constructions be re-used without deviating from their principles and without erasing their historical structural conceptions? How can one adapt existing buildings to current regulations?

Several years of research, still ongoing, conducted at the Department of Architecture and Design of the Polytechnic School of the University of Genoa, intends to define strategies for knowledge, conservation and enhancement through the reuse of historical wooden buildings.

The process use an experimental sheet application, which was designed for rapid assessment due to provide an exhaustive cognitive framework that is attentive to all the constructional components, from the geomorphological and formal aspects to the identification of ongoing degradation processes and the possible solutions for restoring functionality. The broad spectrum of knowledge provides deep information including the documentation of historical research and the application of instrumental diagnostic investigations in order to give a technical assessment on the structure conservation state, material and historical-technological integrity of the manufactured.

The process of knowledge and diagnosis makes it possible to give greater importance to the real historical and material value of buildings, and is a fundamental step to increase the awareness that the use or correct re-use is a fundamental step for the enhancement of the existing buildings.

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