

METHODS FOR THE ANALYSIS OF MATERIALS USED IN THE REHABILITATION OF HISTORICAL CONSTRUCTIONS

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ABSTRACT

In the case of repairs and restoration of historical buildings, the difficulty lies in preserving their value. It is important that the used materials to be as similar as the original ones, both in terms of composition and of application mode. The purpose of this paper is to present a synthesis of current analysis of techniques and methods for the used building materials in the historical buildings rehabilitation. Therefore, a bibliographic study has been carried out regarding the causes and types of degradation, the evolution in time of construction and building materials and the current analysis methods on their characteristics and the compatibility with the original substrate, too. The results of the theoretical analysis have shown that the degradation of historical constructions can occur as a result of natural causes (chemical, physical, biological and mechanical) or traumatic (fires, earthquakes and wars), resulting in strength and stability reduction of the structure, the loss of historical value due to deterioration of the architectural details etc.

Keywords: construction materials; analysis methods; rehabilitation; historical buildings

1. INTRODUCTION

Throughout history, the constructions have been continually evolving. If, at first, were used less sintered materials, closer to the natural one, nowadays are produced and used complex composites that bring the advantage of several properties and benefits cumulating. In the case of historical buildings repairs and restoration, the difficulty lies in preserving their value. For this purpose, it is important that the used materials are similar with the original ones, both in terms of composition and mode of application. Only in this way, the

REZUMAT

În cazul reparațiilor și restaurării construcțiilor istorice dificultatea constă în păstrarea valorii acestora. Este important ca materialele utilizate să fie cât mai asemănătoare cu cele originale, atât din punct de vedere a compoziției cât și a modului de punere în operă. Scopul acestei lucrări a fost să prezinte o sinteză a tehnicilor și metodelor de analiză actuale destinate materialelor de construcție utilizate la reabilitarea construcțiilor istorice. Prin urmare, s-a realizat un studiu bibliografic privind cauzele și tipurile degradărilor, evoluția în timp a construcțiilor și a materialelor de construcție și metodele actuale de analiză privind caracteristicile și compatibilitatea lor cu substratul original. Rezultatele analizei teoretice au arătat că degradarea construcțiilor istorice poate să survină ca urmare a unor cauze naturale (chimice, fizice, biologice și mecanice) sau traumatice (incendii, cutremure și războaie) având drept consecință reducerea rezistenței și stabilității structurii, pierderea valorii istorice ca urmare a deteriorării detaliilor arhitecturale etc.

Cuvinte cheie: materiale de construcție; metode de analiză; reabilitare; construcții istorice

architectural details keep their value, approaching authenticity.

The theoretical analysis results have shown that the degradation of historical constructions can occur as a result of natural causes (chemical, physical, biological and mechanical) or traumatic ones (fires, earthquakes and wars), resulting in a reduction of the structure strength and stability, the loss of historical value due to the deterioration of architectural details etc., as shown in Fig. 1.

The historical buildings are an important component of our cultural heritage. As other authors have indicated (Lee, 1996; Wang,

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