

DEPOSITI MUSEALI ALL'INTERNO DI EDIFICI STORICI E MICROCLIMA INDOOR. LA EX-CHIESA DELLA CROCE ALLA GIUDECCA.

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Abstract.

The former Church of Croce on the island of Giudecca was assigned by the State Property Administration (Demanio) to Gallerie dell'Accademia di Venezia throughout 2018, to enshrine part of the deposits of works of art not exhibited in the Museum. The specialization thesis, whose first results are presented in this paper, is connected to the concept of HIM (Historic Indoor Microclimate), which is the understanding of which conditions of the "life" of architecture influenced the microclimate in its past - or, better still, in one of its pasts -. The investigation path - which included the geometric/photogrammetric survey, an in-depth historical-constructive research in collaboration with the Museum and a part of the microclimatic monitoring in site - starts from the assumption that, to find suitable microclimatic solutions for the works of art (the content), it is necessary to deepen the knowledge of the historical building (the container, also recognized as cultural heritage). Water, in its various forms, activates various degradation mechanisms; Venice has a relationship and interaction with water, far more than continuous, founding and endemic. The focus of the paper is to investigate the phenomenon of condensation on cold surfaces, through the comparison of relative humidity and air temperature ambient data with the surface temperature of the northern wall. The aim of the contribution is also to outline some interventional hypotheses on the basis of effective research and current legislation, finding solutions highly compatible with historical matter, expressed through the integration of technology and methods of use.

Keywords: *HIM (Historic Indoor Microclimate), historical buildings, storage facilities of museums, condensation on cold surfaces*