

SELECTED PROBLEMS INVOLVING THE PRESERVATION OF HISTORICAL FRAME BUILDINGS IN SILESIA IN THE CONTEXT OF THEIR FUTURE THERMO-RENEWAL

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Abstract

The paper discusses the conservation state of selected examples of historical objects preserved in the Silesia Province, having a complex structure with the elements of Prussian wall. They can be found mainly in the so-called company towns created in the late 19th century. The work presents the structural and architectural details characteristic for such objects, with the emphasis on different technical condition of the structural and finishing elements. External envelopes were evaluated in terms of their thermal insulation and humidity condition, depending on their structure, type of material and location, using theoretical and calculation methods. Due to historical value of the buildings and special character of the façade, the paper suggests that the material values, thermal conductivity and humidity level of the envelopes should be closely identified to provide a basis for further analyses.

Keywords: Prussian wall; insulation from inside.