

THERMAL REHABILITATION OF BUILDINGS – A DEEPER TECHNICAL AND ECONOMIC ANALYSIS

— research paper —

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Abstract: this paper presents a deeper economic analysis of the influence of the insulation thickness from additional insulation thermosystems for external walls of buildings on the annual energy savings achieved and on the duration of simple recovery of the investment costs. It is a continuation of earlier works which are technical and economic analyses, respectively, of the phenomenon, trying to optimize the thickness of the insulation for several wall structures and for different climatic zones. In the present paper this analysis goes more in depth, taking into account the life duration of investment as a variable. Several conclusions and recommendations are highlighted.

Keywords: thermal rehabilitation of buildings, thermal insulation optimization, heat losses

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