

COMMON ERRORS IN ASSESSING ENERGY PERFORMANCE BASED ON DESIGN

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ABSTRACT The study is focused on a multi-family building block of flats type and includes an energy analysis on its construction and installations elements. Simulation results based on design are compared with metered energy consumptions to infer losses associated with an incorrect execution of works during building construction. Results conclude with energy performance indicators and recommendations for additional energy efficiency measures. Different packages of measures are analyzed for economical efficiency and appropriate conclusions are drawn. It is thus shown how a building can approach conditions compatible with “nearly zero” energy consumption from classical sources, with reasonable costs for owners.