

## COMPREHENSIVE ENERGY DIAGNOSTICS CARRIED OUT IN A RESIDENTIAL BUILDING – A CASE STUDY

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### Abstract

**The article presents the case study of the comprehensive diagnosis of an existing residential building with natural ventilation. The results of quick diagnostics of thermal insulation of the building, the heating system, ventilation, domestic hot water preparation and the quality of the environment in the rooms were presented. Based on the data obtained by measurements, the energy performance of the building was prepared using the building certification calculation method. The energy performance of the building was also prepared using the developed method of determining energy performance based on measurements.**

**Keywords: Thermal diagnostics; Natural Ventilation; Domestic Hot Water; Indoor environment quality; Energy performance certificate.**