Opinion of supervisor of doctoral dissertation

Title of the thesis: NEARLY ZERO-ENERGY BUILDING RETROFIT CASE STUDY OF A CONVENTIONAL SINGLE-FAMILY HOUSE IN DENMARK

Author: Ing. Robert Wawerka


PhD student began his study in September 2008 in full-time studies and later moved into a combined form. Dissertation submitted within the regulatory deadline of BUT. Currently, he is employed part-time at Research Centre AdMaS.

During the study he performed his academic duties at set times with very excellent results. Doctoral examination successfully passed on September 9, 2010. His grade point average is 1.00.

Dissertation is focused on analysis of single family house retrofit to nearly zero energy building according EU directive requirements. For solving the topic were used modelling and simulation on Design Builder software and experimental measurements on real building in Denmark.

Publishing activity includes 19 publication output at scientific conferences and journals. Eight articles was published in English language. More than two articles published in peer-reviewed non-impact proceedings issued outside the Czech Republic.

PhD student works on the project Technology Agency of the Czech Republic (TAČR) – Competence Centres TE02000077 as junior researcher and was project researcher of two projects Specific Research at the of BUT.

PhD student participated at the Institute of Building Services in activities in professional and social activities. During study he was active in work stays in Denmark and log stay in the frame of ERASMUS Free movers program in Malaysia.

Dissertation was processed individually, using appropriate methods for the research topic. Professional cooperation with the supervisor was ongoing and submitted dissertation meets the requirements for a qualifying work in the doctoral program P3607 Civil Engineering.

I recommend dissertation work for the defence.

Assoc. Prof. Ing. Jiří Hirš, CSc.

In Brno, May 31, 2016