

OPPONENT'S REPORT

Author of bachelor thesis: Martin Mikuš

Opponent: Ing. Petr Vávra

Opponent's report has been elaborated for bachelor thesis called „Detached Family Residence“.

The object is designed to have two floors without basement. As structural system of the object probably timber frame constructions has been used which is packed with stacks of strew. The house is built on “air cushion”. Construction of the roof is designed as pitched saddle one.

Overall work of project documentation and the quality of each drawing does not correspond to the implementation of documentation for the houses according to standards. The drawings contains deficiencies, just an example lets mention the staircase. The staircase itself is not drawn regarding standard ČSN 01 3420.

The content of comments regard to standard would be so extensive, therefore I arise comments which I suppose to be the most important.

Site situation C3

- The marking of old and new utility connections regarding to legend on the plan
- The distances of the house from the boundary line of the site

Comments generally regarding to structure and construction part

Please clarify or explain

- The footings of entire house and its depth
- Construction system of the house. The horizontal and vertical structural elements including their dimensions
- Joints of vertical and horizontal part of the frame construction.
- The construction of the roof, what type of structure it is, implementing each element especially wall plate and its anchoring.
- Placing roof windows
- Implementation of clay plaster with connection to packed strew blocks and load bearing timber columns.
- The used value of the coefficient of thermal conductivity for packed strew blocks

Most likely student did not have enough time to complete the thesis in the proper way. So he just rushed through it. Therefore I asses the overall work as poorly done. On the other hand I have to acknowledge the concept and the type of the building as straw house. The house was worked out under BIM, which adds to the level of project documentation some plus points as well. At the end I would like to point out that the visualization part was done well too.

I recommend the work for a thorough assessment from which the righteous decision for final result would be obtained.

Concluding, I assess the work to be commissioned for defense and in overall I grade the work with the following grade:

Classification grade ECTS: *E/3*

In Brno the date 6.6.2015



Signature

Classification grading

ECTS	A	B	C	D	E	F
Grade	1	1,5	2	2,5	3	4