

OPPONENT'S REPORT

Author of bachelor thesis: Viktor Gach

Opponent: Ing. Petr Vávra

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

The subject of the thesis was to work out the documentation according to current legislation with regard to validated standards.

Bachelor thesis contains each and every parts, thus fulfills the requirements of the whole assignment.

The house is designed with two floors without basement. Object has a typical volume shape and is built from contemporary materials. The construction system of the house is made of ceramic blocks Heluz. The construction of ceiling is made of reinforced concrete slabs. The roofing of the house is built from timber truss with lightweight cladding.

To the drawings I have following comments and so I ask the commission for discussion.

Site situation C1

- Construction staking points are made in GPS, but in the plan is stated S-JTSK. Please explain why was GPS used instead of S-JTSK

Drawing D. 1. 1. 01

Please clarify

- using foundation on the level of middle loadbearing wall on the level of frost resistance

Please describe:

- how the thermal insulation layer is built on the footings surface
- horizontal implementation of the waterproof layer on the socle part

Please clarify

- footing under main staircase

Drawing D. 1. 1. 02

Please clarify

- sheeting of the core of the sliding door built in the wall
- The dimension of the doors with regard to their openings
- The drawing of the staircase with regard to standards ČSN 01 3420
- The design of the load bearing wall between rooms numbered 107 and 106

Drawing D. 1. 1. 04

please explain

- the construction of the staircase meaning static modeling scheme, dilatation
- Please describe

- The intersection point of partition wall with suspended ceiling

Drawing D. 1. 1. 06

Please clarify

- The longitudinal bracing of the truss
- The inspection opening for the roof space

D. 1. 1. 07

Please explain

- Static behavior or static scheme of slab S4

D. 1. 1. 12

Please describe

- The connection of vapor barrier in the suspended ceiling to the wall

D. 1. 1. 14

Please clarify

- How are the air outlet and inlet for ventilated facade implemented at the sill and lenticular part of the window?

D. 1. 1. 16

Please clarify

- Why is EPS used as impact sound insulation?

The overall quality of the presented work is high. It has been done thoroughly, especially the details are very well elaborated.

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

Classification grade ECTS: *B/1,5*

In Brno the date 4.6.2015



signature

Classification grading

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