



THESIS SUPERVISOR'S EVALUATION OF STUDENT

Thesis title:	Applicability of Chilled-Beam System in the Middle East
Author:	Jacques Rene Matta
Thesis type:	Bachelor thesis
Faculty:	Faculty of Mechanical Engineering
Department:	Department of Environmental Engineering
Thesis supervisor:	Doc. Ing. Vladimír Zmrhal, Ph.D.

The bachelor thesis submitted by Mr. Matta deals with risk of condensation of the air-conditioning system with chilled beam. The main tasks of the bachelor project were:

- Analysis of condensation risk when using chilled beams for alternative outdoor climatic conditions - Middle Europe (Prague) and Middle East (Tel Aviv);
- Proposing of technical measures including control system to avoid the condensation;
- Evaluation the possibility of using chilled-beam system in the Middle East.

Although Mr. Matta had started to work on his bachelor project in winter semester, some parts of the thesis are solved very marginally. For example the thesis includes cooling load calculation. Unfortunately, this calculation was not used for further analysis (the effect of inlet water temperature on chilled beam cooling capacity). On the other hand, Mr. Matta showed good analytical skills and ability to apply acquired knowledge as well as to learn and implement new information.

The thesis is written very briefly. Personally, I would welcome more independence in solving. I miss more author's own inventions in the thesis. However, Mr. Matta proved that he is able to solve basic problems; this includes implementing the knowledge gained in bachelor study program. In my opinion, the thesis fulfills the criteria for the Bachelor's degree in Mechanical Engineering at CTU in Prague.

I may suggest that the overall evaluation grade for the thesis is:

C (good)

Date: 16th June 2017

Signature:
Doc. Ing. Vladimír Zmrhal, Ph.D.