

## Jury Member Report – Doctor of Philosophy thesis.

**Name of Candidate:** Aleksandr Vedernikov

**PhD Program:** Mathematics and Mechanics

**Title of Thesis:** Effects of technological regimes on structural performance of pultruded profiles

**Supervisor:** Assistant Professor Alexander Safonov

**Name of the Reviewer: Prof Clement Fortin**

I confirm the absence of any conflict of interest	<b>Date: 02-10-2022</b>
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*The purpose of this report is to obtain an independent review from the members of PhD defense Jury before the thesis defense. The members of PhD defense Jury are asked to submit signed copy of the report at least 30 days prior the thesis defense. The Reviewers are asked to bring a copy of the completed report to the thesis defense and to discuss the contents of each report with each other before the thesis defense.*

*If the reviewers have any queries about the thesis which they wish to raise in advance, please contact the Chair of the Jury.*

### **Reviewer's Report**

Reviewers report should contain the following items:

- Brief evaluation of the thesis quality and overall structure of the dissertation.
- The relevance of the topic of dissertation work to its actual content
- The relevance of the methods used in the dissertation
- The scientific significance of the results obtained and their compliance with the international level and current state of the art
- The relevance of the obtained results to applications (if applicable)
- The quality of publications

The summary of issues to be addressed before/during the thesis defense

The thesis submitted by Aleksandr Vedernikov is of very high quality and logically structured in 12 chapters comprising 8 chapter based on research papers that are well integrated into the overall document.

The experimental and simulation methods presented in the thesis are also of high quality.

The author has published 14 papers related to his work. They are published in high level journals and conferences all relevant to the research work.

The subject of the research work is directly related to practical engineering applications which could be of great value to civil engineering practice.

The level of English in the thesis is also excellent, it is clear and easy to comprehend.

I have no specific corrections required before the defense.

#### **Provisional Recommendation**

*I recommend that the candidate should defend the thesis by means of a formal thesis defense*

*I recommend that the candidate should defend the thesis by means of a formal thesis defense only after appropriate changes would be introduced in candidate's thesis according to the recommendations of the present report*

*The thesis is not acceptable and I recommend that the candidate be exempt from the formal thesis defense*