

## 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:** Professor Dr. Ugur Koklu

I confirm the absence of any conflict of interest  (Alternatively, Reviewer can formulate a possible conflict)	<b>Date: 26-08-2022</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

A high-quality doctoral dissertation has been done. In his thesis, he investigated the possibility of increasing the profitability of the pultrusion process while maintaining the structural performance of the produced composite profiles. The main content of the thesis topic is up-to-date, and the methods used in the thesis are new. In addition, scientific results in accordance with the international level and up-to-date technology have been obtained. It was stated that 11 publications were made within the scope of the thesis study. Published journals are generally good. But some journals are really high quality.

Congratulations to the Ph.D. candidate and Supervisor for the high-quality thesis work.

#### 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*