

Review of: "Shear performance of polypropylene fiber reinforced high-strength self-compacting concrete beams"

Viktoriia Plavan¹

1 Kyiv National University of Technologies and Design

Potential competing interests: No potential competing interests to declare.

Thank you for considering me as a reviewer of the current manuscript. The manuscript has many interesting results. However, some suggestions should be adopted, and corrections should be made to this paper to improve its overall quality.

The purpose of the paper is not clearly formulated.

It would be good to make corrections to the introduction. When the author writes about other materials, steel fibers should not be mentioned.

......However, steel fibers have disadvantages such as being easily corroded, higher weight, easily damaged mixer, magnetic interference, and higher price. Therefore, another fiber material was developed and used in concrete such as steel fibers, glass fibers, carbon fibers, and polypropylene fibers. Investigation of fiber concrete using polypropylene fiber was already done by researchers......

In the introduction, the author mentions glass fibers and carbon fibers, but does not give a reference to the papers where these materials would be considered.

In paragraph 2.1, the author notes.....micro monofilament polypropylene fibers with four different proportions of the concrete weight, as presented in table 1, were used in this study. Although it actually uses only three percent fiber consumption 0.1, 0.2, 0.3%.

It is worth explaining why exactly such a number of polypropylene fibers was added to cement (0.1-0.3%).

It is worth limiting the consumption of polypropylene fibers to 0.3% on the X-axis of Figure 1.

The paper should be divided into the **Results and Discussion** and **Conclusion** sections.

Qeios ID: 5H53XO · https://doi.org/10.32388/5H53XO