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

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Potential competing interests: No potential competing interests to declare.

The shear performance of polypropylene fiber-reinforced, high-strength, self-compacting concrete beams, which was the focus of the paper, is a subject worth investigating. The notes presented below have been brought to the attention of the author in order to contribute/improve the paper, which consists of two parts.

1--It is recommended to include more detailed definitions regarding the subject focused on in the paper, in addition to the known definitions of the Introduction main caption. The following publications can also be used for this:

---Bicer, K., Yalciner, H., Balkıs, A. P., & Kumbasaroglu, A. (2018). Effect of corrosion on flexural strength of reinforced concrete beams with polypropylene fibers. Construction and building materials, 185, 574-588.

---Kumbasaroglu, A., Yalciner, K., Yalciner, H., Turan, A. I., & Celik, A. (2021). Effect of polypropylene fibers on the development lengths of reinforcement bars of slabs. Case Studies in Construction Materials, 15, e00680.

---Yalciner, H., Kumbasaroglu, A., & Ergun, U. (2018, February). Effects of geo-grid and conventional stirrups on reinforced concrete beams with polypropylene fibers. In Structures (Vol. 13, pp. 230-242). Elsevier.

2--Paper coverage needs to be checked to ensure that long definitions of abbreviations encountered for the first time are required.

3--The forgotten dimensions for the cross-section in Figure 2 need to be added.

4--It is recommended that the load-carrying capacity-deflection relationships of beam samples be included in an additional new main/sub-heading.

5--It is brought to the author's attention that the load-mid-span deflection relationships obtained in Figures 4 and 5 are not the same as the RC beam behavior in terms of the references reported in the first article.

6--Figures 6 and 7 need to be introduced in the text and further discussed in terms of their implications.

7--Although very convincing arguments have been made for beam cracking and failure mode, the accuracy of the obtained research findings has been accepted as they were, without comparing them in terms of any literature results (cracking load and/or crack width). Additional references may be required for these results (e.g. doi:10.14259/51720195 may be used).