

Dear Editor Thananchada Tippayakraisorn and Reviewers,

The co-authors and I would like to thank you for the time and effort spent in reviewing the manuscript entitled “Mechanical properties tests and numerical simulation for C80 concrete with the different contents of stone powder” (ID: materials -1674564). The comments are valuable and helpful for the improvement of the manuscript, and significant to our research work.

We have substantially revised our manuscript after reading the comments from the four reviewers. The revisions include content revisions and language improvement. Besides, each comment will be directly addressed regarding the modified manuscript and each change is highlighted in yellow in the manuscript. The corresponding parts of the manuscript have been comprehensively revised based on the comments of the reviewers.

Best regards

Bo Shen

Space Structures Research Center,

Guizhou University,

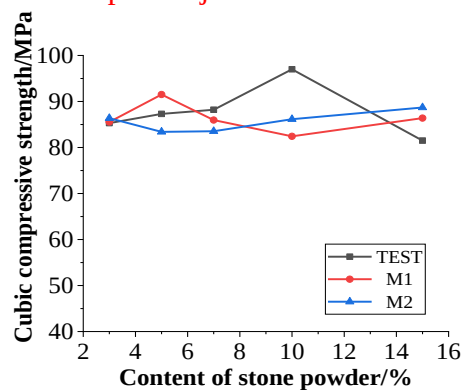
Guiyang, Guizhou, P. R. China

Responses to Reviewer 1's Comments

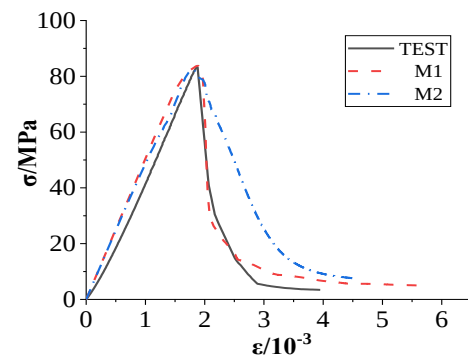
Point1: The resubmission has addressed all issues noted in the first submission. The quality of the current manuscript is high and can be published as is. Please add the units in y axis in figure 12c.

Response 1: Thank you very much for acknowledging the research content of this article. And we have added the units in y axis in Figure 12c. Due to the adjustment of the article, Figure 12 becomes Figure 15.

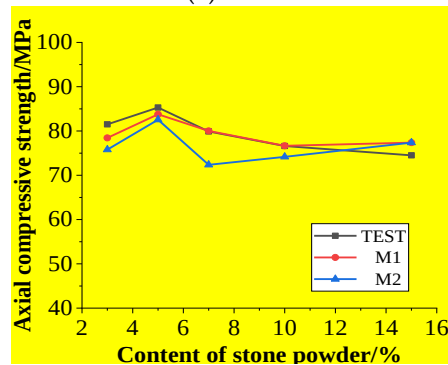
The manuscript is adjusted as follows:



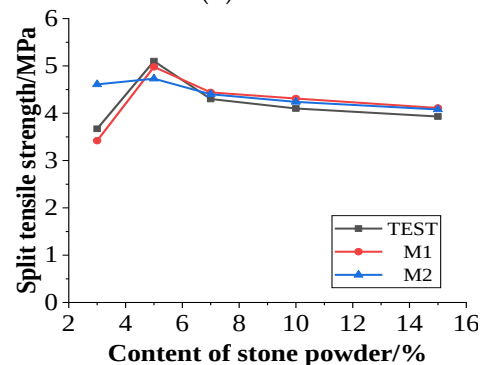
(a)



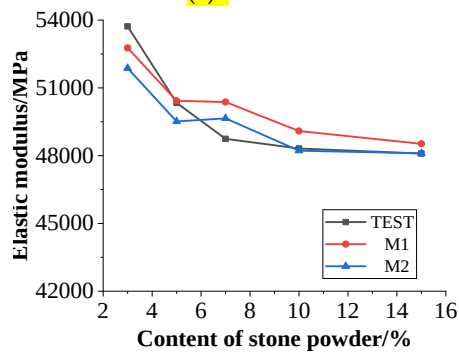
(b)



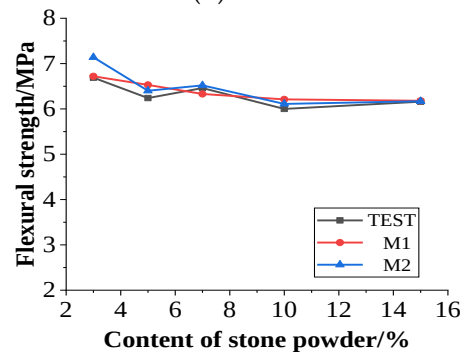
(c)



(d)



(e)



(f)

Figure 15. Comparison of experiment and simulation: (a) cubic compressive strength; (b) stress–strain curves of concrete with 5% stone powder content; (c) axial compressive strength; (d) split tensile strength; (e) elastic modulus; (f) flexural strength.