

SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	Advances in Research
Manuscript Number:	Ms_AIR_128466
Title of the Manuscript:	Research Status and Prospect of Steel Frame-Infill Wall Structure
Type of Article :	Opinion Article

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>The reviewer verifies that an improvement has been made. Recent and important references and images were added. Nevertheless, there are still issues the authors did not address. In this way, and given the importance of this research topic, the reviewer pointed out some of these issues with suggested corrections.</p> <p>Adjust the new title. Maybe: A Literature Review on Steel Frame-Infill Wall Structures – Research Status and Prospects.</p> <p>Abstract:</p> <ul style="list-style-type: none"> - Maybe plural? – "... development of assembled steel structures, ..." - Should it be "frame-infill" instead of "frame-fill"? Verify this. - The sentence: "In this paper, by comprehensively..." is confusing. <p>Section 1 Introduction:</p> <p><u>In the introduction consider adding a text explaining how did you divided the paper (Sections 2, 3 and 4), and how these sections are related with each other and with the paper argument and objectives. The sections seem dispersed.</u></p> <ul style="list-style-type: none"> - Page 1: "There is a large gap..." – Verify this phrase. Consider reformulating "construction waste treatment", remove the "such as", and reformulate the word "sloppy" to a more formal synonym. - Page 1: Consider replacing "discount factor" wherever is found in the paper by a more appropriate term, maybe "reduction factor". - Page 2: "... measures should be taken. However, ..." – missing full-stop. - Page 2: "... under the strong support of the policy, the development ..." – Do you mean design codes or norms? Consider replacing the term "policy". - Page 2: Consider correcting/reformulating the last sentence of the Introduction section for better understanding. <p>Section 2.1:</p> <ul style="list-style-type: none"> - Page 2: "... the advantages of each can be realized: the concrete restrains the internal concrete and provides support in case of lateral compression, ..." Verify this phrase on the repetition of the word "concrete". - Page 2: "frames. (2006) conducted" – Refer the authors name or "The authors", e.g.: "The authors conducted..." 	

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- Page 2: Consider adding a full-stop here (already added): "...seismic performance of steel-tube concrete columns and steel beams planar frames. **The** results ...” and here “and energy dissipation capacity. **Moreover**, ...”.
- Page 2: The reviewer suggests the separation of the sentence: "... proposed static test. **The authors then** analyzed the effect of each parameter on the seismic performance and carried out numerical... “. Also, consider briefly adding the main findings of this research contributing to your research background.
- Page 3: Consider verifying this phrase (already corrected) "...damage mechanism of the specimens under horizontal load. **In addition, the authors** carried out parametric analyses...”. Also, consider briefly adding the main findings of this research contributing to your research background.
- Page 3: Consider these corrections: "... energy dissipative panels. **The** results showed that..." and “be replaced. **The** frame could...”.
- Page 3: Consider the following correction: "... concrete columns and H-beams. **The** node diagram is shown in Fig. 1. **The** effects of ...”. Note that if you use images from other authors, you should reference them and/or ask for permission to use.
- Page 3: Consider maintaining the tense "... simplified equations ... new welded node **were** proposed.”. Do this for similar cases.
- Page 4: Consider the following correction: "... flowchart is shown in Fig. 2. **The** seismic...”.
- Page 4: Consider the following correction: “However, there are **few** studies...”.

Section 2.2:

- Page 4: Reformulate/Correct this phrase for meaning and add punctuation: “ALC (Autoclaved Lightweight Aerated Concrete) board is a kind of porous concrete molding plate, the main raw materials include cement, lime, silica sand, etc., **after** high pressure steam curing **and become, compared** with the traditional cementitious materials, **ALC** board has many advantages and characteristics: firstly, ALC board contains a large number of pores, so it has a lighter weight, which makes it possible to reduce the overall load in the building structure, thus reducing the self-weight of the building.”.
- Page 4: Consider changing the term “conductive” for one more appropriate, e.g.: maybe correct to “... which is advantageous in reducing...”.
- Page 5: Consider the correction: “...building. **Moreover**, the ALC...”. For future reference, when having a “Moreover”, a “In addition” or something similar, consider adding a full-stop to break up the sentence.
- Page 5: Consider adding the main findings of the studies you are referencing, to add information to your literature review. References 12 to 16 and 19.
- Page 5/6: The paragraphs of references 17 and 18 have only one phrase, please break-up the sentence for better understanding. Otherwise, the meaning is lost.
- Page 6: Consider adding a full-stop: “... as shown in Fig. 3. **The authors** analyzed the effects...”.
- Page 6: Paragraph of reference 22, should be broken in more than one sentence.
- Page 6/7: In the last paragraph of section 2.2., consider substantiating with references.

Section 2.3:

- Page 7: First paragraph – Notice the repeated use of “and” without a full-stop. Meaning can be lost. The reviewer suggests dividing into more sentences.

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- Page 7: be consistent on whether you assume “inter-story” or “interstory”.
 - Page 7: Usually, and for reference, when we refer to the simplified models of Infill Walls, the name is generally assumed to be “strut models” or “equivalent strut models” instead of “brace model”. For example, if you are interested, see this reference regarding modelling infill masonry walls in RC frame structures, that you can add to your paper where appropriate: <http://dx.doi.org/10.7712/120123.10653.20834>.
 - Page 7: Decide on whether you want to replace “elastic-plastic” by “elasto-plastic”.
 - Page 8: Consider the correction: “...to limit or eliminate damage to the infill wall and frame, during an earthquake. This device allows for the upper and lower walls to slide relative to each other, thus avoiding structural damage and dissipating energy. Tests confirmed ...”.
 - Page 8: Decide or check paper guidelines template on how figures are identified in the text of “Fig.” or “Figure” and be consistent. In addition, add a legend text to Fig. 4, and not only subcaptions.
 - Page 8: Check and correct the final sentence of the paragraph regarding reference 26.
 - Page 9: Check and correct the paragraph regarding reference 29.
 - Page 9: Consider adding punctuations, dividing sentences, on the paragraph of reference 30. This phrase is confusing (not corrected): In the shaking table tests, the literature proposed the damage index as an index for structural performance evaluation by utilizing the reduction of structural self-resonance frequency and investigated the change rule of the structural damping ratio, interstory shear; in the horizontal low ...”. Also, you repeated the same text at the end of the paragraph, please check it.
 - Page 9 and before: The phrase “... and found that the distribution of stiffness between infill walls and frames affects the conclusions of the horizontal loads that can be borne by both of them, ...” is confusing. What do you mean by “conclusions” and “borne”? Consider replacing the term borne by support or resisting.
 - Page 9: By “foot-over-foot do you mean 1:1 scale? That’s real scale models. Consider replacing the term. Note that this term is very extensive: steel frame-lightweight sand aerated concrete exterior wall panel structure.
 - Page 10: Consider replacing “frame-only” by “bare frame”.
 - Page 10: Consider expounding the main findings of reference 34.
 - Page 10: Frist sentence of the paragraph related with references 35 and 36 has too many “and”. Please reformulate the sentence, or divide it in more sentences.
 - Page 10: First sentence of paragraph of reference 37 must be divided into more sentences, so that it does not lose meaning when reading.
 - Page 10: What do you mean by “reclaimed infill walls”? Please replace the term or explain its meaning.
 - Page 10: Is “pure frame” the same as “bare frame? If so, consider replacing the instances.
 - Page 11: Verify paragraph of reference 41 for punctuation and sentence division.
 - Page 11: Consider replacing the term “home” by a more appropriate term in this context.
- Section 3:**
- Page 11: If possible, try to identify more problems based on your research.

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Section 4:

Page 12: The phrase "... and the composite wall is divided into a wall without openings, a wall with window openings, and a wall with door openings." Is confusing and seems out of the previous phrase context. Consider reformulating this first sentence for a better understanding.

Page 12: The two paragraphs of this section do not reflect a conclusion. These seem to present additional studies and do not present a closure to the present paper.

The main findings of the literature gathered (Status) and future developments/directions (Prospects) as the title indicates must be provided. This is a crucial part of the paper and must be reformulated.

Reviewer Details:

Name:	Pedro Folhento
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