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Dari: em@editorialmanager.com

Kepada: rita_irmaway@yahoo.co.id

Tanggal: Minggu, 24 Juli 2022 pukul 08.57 WITA

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THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS:
EXPERIMENTAL AND ANALYTICAL STUDY

Dear Dr. Eng. Irmawaty,

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Dari: em@editorialmanager.com

Kepada: rita_irmaway@yahoo.co.id

Tanggal: Senin, 25 Juli 2022 pukul 23.26 WITA

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Manuscript Number: CSCM-D-22-01553

THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS:
EXPERIMENTAL AND ANALYTICAL STUDY

Dear Dr. Eng. Irmawaty,

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Tanggal: Selasa, 26 Juli 2022 pukul 08.30 WITA

Manuscript Number: CSCM-D-22-01553

Manuscript Title: THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS: EXPERIMENTAL AND ANALYTICAL STUDY

Journal: Case Studies in Construction Materials

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Dari: em@editorialmanager.com

Kepada: rita_irmaway@yahoo.co.id

Tanggal: Senin, 29 Agustus 2022 pukul 22.58 WITA

CC: afonso.garcez91@gmail.com

Manuscript Number: CSCM-D-22-01553

THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS: EXPERIMENTAL AND ANALYTICAL STUDY

Dear Dr. Eng. Irmawaty,

Thank you for submitting your manuscript to Case Studies in Construction Materials.

I have completed my evaluation of your manuscript. The reviewers recommend reconsideration of your manuscript following major revision. I invite you to resubmit your manuscript after addressing the comments below. Please resubmit your revised manuscript by Sep 19, 2022.

When revising your manuscript, please consider all issues mentioned in the reviewers' comments carefully: please outline every change made in response to their comments and provide suitable rebuttals for any comments not addressed. Please note that your revised submission may need to be re-reviewed.

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Case Studies in Construction Materials values your contribution and I look forward to receiving your revised manuscript.

Kind regards,
Afonso Rangel Garcez de Azevedo
Editor-in-Chief

Case Studies in Construction Materials

Editor and Reviewer comments:

Reviewer #1: 1. The background is not convincing - TRM seems to be a better alternative to strengthen beam based on the literature that the authors outlined; in such case, why is there a need to strengthen the beam using mortar panels and with bolts? There is no basis from literature to use mortar panels for strengthening beam given in the section 1. Therefore, the introduction section must be significantly improved.

2. Please comment on the design (or consideration) of the beam to induce shear cracks in the experiment

3. What is the w/c ratio for the Portland cement mortar mix? How about water content for the geopolymer?

Please also provide composition of fly ash

4. Please provide pictures of the failure mode of samples

5. There are numerous formatting errors and grammatical errors in the manuscript. The manuscript must be sent for professional proofreading to correct these.

6. The results showed that the geopolymer material has similar effect as Portland cement mortar in strengthening the beam - this would already have been expected earlier. Justifications need to be provided as to why geopolymer is needed instead of Portland cement mortar for the mortar panel. The Portland cement mortar panel would cost less compared to the geopolymer.

7. Most of the references are not very updated and only few are within the last 5 years. Therefore, the authors should look at the latest literature to highlight the relevance of the research to the current trend.

Reviewer #2: The experimental study on the Geopolymer mortar panels (GMP) used for improving shear capacity of RC beam, is an novel technique in structural retrofitting.

Page 3: "The control beams were designed to fail in shear failure, allowing the flexural resistance to exceed the shear resistance." Explain the design philosophy adopted of the same for designing its reinforcement.

Justify for selecting anchor bolt spacing as 200 mm and 300 mm for study.

Provide rate of loading and capacity of UTM used for testing compressive strength of geopolymer mortar. Also provide the testing carried out as per which standard (ACI, ASTM, IS, BS, AS, or any other standard practice).

Provide list of Abbreviations for equation parameters separately.

The experimental work results and its interpretation were well written. The model SMCFT was used to estimate the shear capacity of RC beam strengthened with GMP predicted with good accuracy. Where this model can be appropriately can be adopted for similar studies.

Reviewer #3: The paper "THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS: EXPERIMENTAL AND ANALYTICAL STUDY" may be considered for publication in the CSCM after corrections:

- (a) Although the topic is relevant, it is already widely discussed in the literature, should the authors clearly show potential readers what is the innovation and scientific contribution of this research?
- (b) The abstract must be reformulated, it shows the innovation and main quantitative results;
- (c) The title is still confusing to readers;
- (d) The introduction is not significant. Authors should show current papers on geopolymeric and activated alkali materials, as well as mortars for these applications (cement materials), show the main concepts and limitations of this field of research. Some suggested roles are: 10.3390/ma14154304; 10.1590/1807-1929/agriambi.v24n3p187-193; 10.1016/j.cscm.2020.e00436; 10.1016/j.cscm.2021.e00733; 10.1016/j.cscm.2021.e00812; 10.1016/j.cscm.2021.e00723; 10.1016/j.cscm.2021.e00802.
- (e) An experimental flowchart can be considered by the authors;
- (f) "Comparing the failure load of GM-W-200 and GM-W-300 as the effect of anchor bolt spacing, it was clearly seen that the failure load significantly increased with smaller anchor bolt spacing. The failure load increment of GM -W-200 and GM-W-300 was 34.9% smaller and 22.8%, respectively, compared to the control beam. This implied that the anchor bolt spacing was beneficial for improving shear capacity. This was because the force distributed well in strengthening panel system and mechanical interlock between the strengthening panel and RC beam was also enhanced." This should be better explained by the authors.
- (g) Note that their results are rarely discussed in the literature, this cannot be accepted. In some parts its role resembles a technical report. Other studies in the international literature on the subject should be compared;
- (h) The English language must be verified throughout the document!

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Revision of "THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS: EXPERIMENTAL AND ANALYTICAL STUDY" is due soon

Dari: Afonso Rangel Garcez de Azevedo (em@editorialmanager.com)

Kepada: rita_irmaway@yahoo.co.id

Tanggal: Jumat, 16 September 2022 pukul 12.27 WITA

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Manuscript Number: CSCM-D-22-01553
THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS:
EXPERIMENTAL AND ANALYTICAL STUDY

Dear Dr. Eng. Irmawaty,

We would like to remind you that on Aug 29, 2022 we asked you to revise your above referenced manuscript and your revision is due by Sep 19, 2022.

Case Studies in Construction Materials values your contribution and we look forward to receiving your revised manuscript.

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THE APPLICATION OF GEOPOLYMER MORTAR PANELS FOR SHEAR STRENGTHENING RC BEAMS: EXPERIMENTAL AND ANALYTICAL STUDY

Dr. Eng. Rita Irmaway

Case Studies in Construction Materials

Dear Editor(s),

Please extend the due date of the revision for my above referenced submission.

Comments from the author:

I will require an additional 10 days to prepare my revision.

Kind regards,

Dr. Eng. Rita Irmaway

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EXPERIMENTAL AND ANALYTICAL STUDY FOR SHEAR STRENGTHENING OF REINFORCED-CONCRETE BEAMS USING A PREFABRICATED GEOPOLYMER-MORTAR PANEL

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Manuscript Number: CSCM-D-22-01553

Manuscript Title: EXPERIMENTAL AND ANALYTICAL STUDY FOR SHEAR STRENGTHENING OF REINFORCED-CONCRETE BEAMS USING A PREFABRICATED GEOPOLYMER-MORTAR PANEL

Journal: Case Studies in Construction Materials

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Dari: em@editorialmanager.com

Kepada: rita_irmaway@yahoo.co.id

Tanggal: Rabu, 12 Oktober 2022 pukul 03.53 WITA

CC: afonso.garcez91@gmail.com



Manuscript Number: CSCM-D-22-01553R1

EXPERIMENTAL AND ANALYTICAL STUDY FOR SHEAR STRENGTHENING OF REINFORCED-CONCRETE BEAMS USING A PREFABRICATED GEOPOLYMER-MORTAR PANEL

Dear Dr. Eng. Irmawaty,

Thank you for submitting your manuscript to Case Studies in Construction Materials.

I am pleased to inform you that your manuscript has been accepted for publication.

My comments, and any reviewer comments, are below.

Your accepted manuscript will now be transferred to our production department. We will create a proof which you will be asked to check, and you will also be asked to complete a number of online forms required for publication. If we need additional information from you during the production process, we will contact you directly.

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Afonso Rangel Garcez de Azevedo
Editor-in-Chief

Case Studies in Construction Materials

Editor and Reviewer comments:

Reviewer #1: The responses by the authors are satisfactory and can address the previous comments. Hence, the paper can be recommended for acceptance.

Reviewer #2: All the review comments are addressed

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