

Technical sciences: Architecture and construction**DOI:****UDC: 624.131****IRSTI: 67.11.39****Title of the Article****¹ First Name Last Name, ^{*2} First Name Last Name**¹ Name of the Institution (or Place of Work), City, Country² Name of the Institution (or Place of Work), City, Country

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Abstract

The abstract should be written in one paragraph and contain 150–250 words. It must clearly state the background of the study, the research objective, methodology, main results, and conclusions. The abstract should accurately reflect the scientific content of the article and its contribution. References to literature, citations, tables, figures, footnotes, and unexplained abbreviations are not allowed. The abstract must be self-contained and understandable without reading the full text of the article. It should be written in a clear academic style using precise scientific terminology.

Keywords: The article must include 4–7 keywords. Keywords should reflect the main topics, methods, and scientific area of the study. They must be specific, relevant, and not duplicate words already used in the title unless necessary for indexing purposes. General terms and overly broad phrases should be avoided. Keywords should be separated by commas.

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Техникалық ғылымдар: сәулет және құрылыс**DOI: <https://doi.org/10.63377/3005-4966.4-2025-01>****ӘОЖ: 624.131****GTAMP: 67.11.39****Мақаланың атауы****¹ Аты-жөні, *² Аты-жөні**¹ Білім беру ұйымының атауы (немесе жұмыс орны), қала, ел² Білім беру ұйымының атауы (немесе жұмыс орны), қала, ел
Хат алмасу үшін автор (корреспондент-автор):Мақала келді: 30 мамыр 2025
Сараптамадан өтті: 26 тамыз 2025
Қабылданды: 15 желтоқсан 2025**Түйіндеме**

Аңдатпа бір абзац түрінде жазылып, 150–250 сөзден тұруы тиіс. Онда зерттеудің өзектілігі, мақсаты, әдіснамасы, негізгі нәтижелері және қорытындылары нақты көрсетілуі қажет. Аңдатпа мақаланың ғылыми мазмұнын және оның ғылыми үлесін дәл көрсетуі тиіс. Әдебиеттерге сілтемелер, дәйексөздер, кестелер, суреттер, сілтемелер (ескертпелер) және түсіндірілмеген қысқартулар қолданылмайды. Аңдатпа толық мәтінді оқымай-ақ түсінікті болуы тиіс. Мәтін нақты ғылыми терминология қолданылған айқын академиялық стильде жазылуы қажет.

Түйін сөздер: Мақалада 4–7 түйінді сөз болуы тиіс. Түйінді сөздер зерттеудің негізгі тақырыбын, қолданылған әдістерін және ғылыми бағытын көрсетуі керек. Олар нақты, өзекті болуы және индекстеу талап етілмеген жағдайда мақала атауында қолданылған сөздерді қайталамауы тиіс. Жалпы және тым кең мағыналы сөз тіркестерінен аулақ болуы қажет. Түйінді сөздер үтір арқылы жазылады.

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Технические науки: Архитектура и строительство**DOI: <https://doi.org/10.63377/3005-4966.4-2025-01>****УДК: 624.131****МРНТИ: 67.11.39****Название статьи****¹ Имя Фамилия, *² Имя Фамилия**¹ Название учебного заведения (или места работы), город, страна² Название учебного заведения (или места работы), город, страна

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 Рецензирование: 26 Августа 2025
 Принята в печать: 15 Декабря 2025

Аннотация

Аннотация должна быть написана в одном абзаце и содержать 150–250 слов. В ней необходимо четко указать актуальность исследования, цель работы, методологию, основные результаты и выводы. Аннотация должна точно отражать научное содержание статьи и ее вклад. Ссылки на литературу, цитирование, таблицы, рисунки, сноски и необъясненные сокращения не допускаются. Аннотация должна быть самостоятельной и понятной без обращения к полному тексту статьи. Текст должен быть написан в ясном академическом стиле с использованием точной научной терминологии.

Ключевые слова: Статья должна содержать 4–7 ключевых слов. Ключевые слова должны отражать основную тематику, методы и научную область исследования. Они должны быть конкретными, релевантными и не дублировать слова, уже использованные в названии статьи, если это не требуется для индексирования. Следует избегать общих и чрезмерно широких формулировок. Ключевые слова указываются через запятую.

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1. Introduction

The Introduction should present the background of the study, the relevance and significance of the research topic, and a brief overview of existing scientific approaches to the problem. It must clearly define the research gap and justify the need for the study. The section should conclude with a clear statement of the research objective and, where appropriate, the research questions or hypotheses.

The Introduction should be logically structured and supported by relevant scholarly sources. Excessive general information not directly related to the research problem should be avoided. The section should not contain detailed results or conclusions of the study.

2. Materials and Methods

The Materials and Methods section should clearly describe the research design, data sources, materials, equipment, and analytical procedures used in the study. The description must be sufficiently detailed to ensure transparency and reproducibility of the research.

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If the Materials and Methods section consist of several subsections, they should be clearly structured and logically organized according to the stages of the research process. Subsections may include, for example, Study Area, Data Collection, Experimental Design, Analytical Methods, Statistical Analysis, or Modeling Approach.

Each subsection should have a clear and informative heading. The structure must ensure consistency, clarity, and reproducibility of the study. The numbering of subsections should follow the journal's formatting requirements.

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The Results section should present the main findings of the study in a clear, logical, and objective manner. The results must be directly related to the research objectives and methodology described in the previous section. Data should be presented using text, tables, and figures where appropriate. Each table and figure must be properly numbered and referenced in the text. The presentation of results should be concise and avoid repetition of the same information in both text and graphical form. Only factual findings should be included in this section. Interpretation, comparison with previous studies, and discussion of implications should be presented in the Discussion section.

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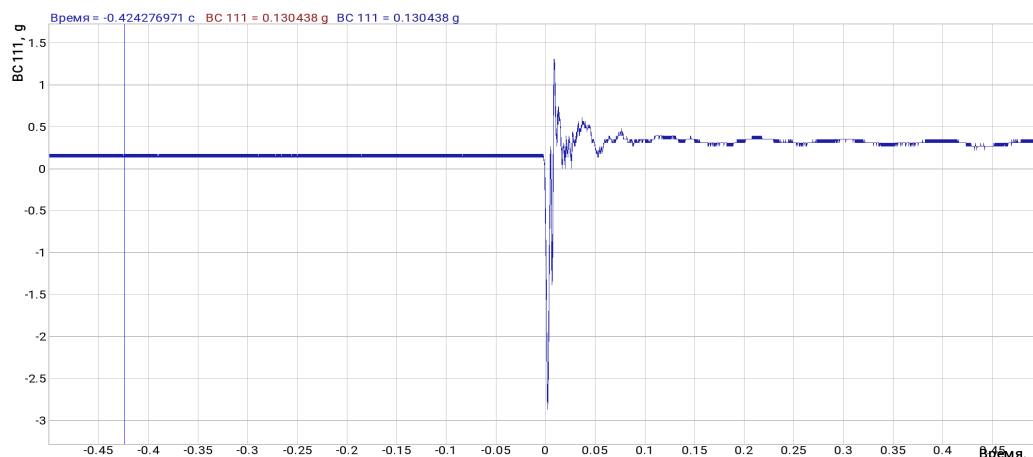


Figure 3. Acceleration time histories recorded by the BC-111 accelerometer for six repeated tests on fly ash specimens at a drop height of 10 cm: a) natural soil, b) ground–silicate specimens, c) fly ash specimens

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Table 1. Publications regarding BIM for transportation infrastructure based on model type.

| Model type | Publication |
|---|-------------|
| As-built | [5, 10] |
| Bridge Information Modeling (BrIM) | [11, 12] |
| Building Environment Information Modelling (BEIM) | [13] |
| Building Information Modeling (BIM) | [5, 11, 14] |
| CIM | [15, 16] |
| Civil Information Modeling (CiM) | [9, 17] |
| Digital Terrain Model (DTM) | [18, 19] |
| Finite elements | [20, 21] |

4. Discussion

The Discussion section should provide interpretation and critical analysis of the results obtained in the study. The findings should be compared with existing research and relevant scientific literature. Similarities, differences, and possible explanations must be clearly addressed. This section should highlight the scientific contribution of the study, its theoretical and practical significance, and the implications of the results. Limitations of the research and potential directions for future studies may also be discussed. The Discussion should not simply repeat the results but should provide analytical insight and a reasoned interpretation of the findings.

5. Conclusions

The Conclusion section should summarize the main findings of the study in a concise and structured manner. It must clearly reflect how the research objectives have been achieved and highlight the scientific contribution of the work. The conclusions should be based solely on the results presented in the article and must not introduce new data or references. The practical implications and potential applications of the findings may be briefly outlined. The section should be clear, logically structured, and written in a formal academic style.

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Acknowledgments: In this section, you can acknowledge any support given which is not covered by the author contribution or funding sections. This may include administrative and technical support, or donations in kind (e.g., materials used for experiments).

Funding: Please add: “This research received no external funding” or “This research was funded by NAME OF FUNDER, grant number XXX” and “The APC was funded by XXX”.

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2. Liu, F., Zeng, X., Wu, M., He, J., & Jie, Z. (2025). Seismic performance of thinner rubber-sand mixture cushion reinforced by geosynthetics. *Geosynthetics International*, 32(6), 849–869. <https://doi.org/10.1680/JGEIN.24.00085>

3. Wu, M., Tian, W., He, J., Liu, F., & Yang, J. (2023). Seismic isolation effect of rubber-sand mixture cushion under different site classes based on a simplified analysis model. *Soil Dynamics and Earthquake Engineering*, 166, 107738. <https://doi.org/10.1016/J.SOILDYN.2022.107738>