

Actual energy performance and indoor climate in Finnish NZEB daycare and school buildings

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Airtightness of cross-laminated timber envelopes : influence of moisture content, indoor humidity, orientation, and assembly

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Application potential of combining strain hardening cementitious composites and helical reinforcement for 3D concrete printed structures : case study of a spiral staircase

Hass, Lauri; Nefs, K.; Bos, F. P.; Salet, T. A. M. Journal of building engineering 2023 / art. 107926

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Bond governed interactions between helical reinforcement and 3D printed concrete

Hass, Lauri; Bos, F.P.; Salet, T.A.M. Journal of building engineering 2025 / art. 111447, 28 p. : ill

<https://doi.org/10.1016/j.job.2024.111447>

A combined analytical model for increasing the accuracy of heat emission predictions in rooms heated by radiators

Võsa, Karl-Villem; Ferrantelli, Andrea; Kurnitski, Jarek Journal of building engineering 2019 / p. 291-300

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A cross-platform optimization system for comparative design exploration of competing concepts and strategies

Wang, Likai; **De Luca, Francesco**; Janssen, Patrick; Bui, Do Phuong Tung; Chen, Kian Wee; Yuan, Chao Journal of building engineering 2025 / art. 114413 <https://doi.org/10.1016/j.job.2025.114413>

<https://www.sciencedirect.com/science/article/pii/S2352710225026506?via%3Dihub> [Article at Scopus](#)

Data-driven baseline generation for post-retrofit energy saving assessment, a comparison of statistical and machine learning methods

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Daylight and overheating prediction formulas for building design in a cold climate

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: ill <https://doi.org/10.1016/j.job.2020.101830> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Doping engineering for controlled hydration and mechanical properties in Portland cement mortar with ultra-low ZnO concentration

Tamashiro, Jacqueline Roberta; de la Rubia, Miguel Angel; Rubio-Marcos, Fernando; **Rojas Hernandez, Rocio Estefania**; Silva, Lucas Henrique Pereira; de Paiva, Fabio Friol Guedes; Kinoshita, Angela; Terrades, Amparo Moragues Journal of building engineering 2023 / art. 107748 <https://doi.org/10.1016/j.job.2023.107748> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

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The effect of thermal transmittance of building envelope and material selection of wind barrier on moisture safety of timber frame exterior wall

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Enhancing CLT construction – Hygrothermal modelling, novel performance criterion, and strategies for end-grain moisture safety

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Failure analysis of a spray polyurethane foam roofing system

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Mechanical activation of medium basicity steel slag under dry condition for carbonation curing

Li, Jiajie; Ni, Wen; Wang, Xue; Zhu, Sitao; Wei, Xinlei; Jiang, Fuxing; Zeng, Hui; **Hitch, Michael William** Journal of building

engineering 2022 / art. 104123 <https://doi.org/10.1016/j.jobe.2022.104123>

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A novel method for calculating heat emitter and controller configuration setpoint variations with EN15316-2

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Numerical analysis of additional heat loss induced by air cavities between insulation boards due to non-ideality

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Numerical simulation of CLT moisture uptake and dry-out following water infiltration through end-grain surfaces

Brandstätter, Florian; Kalbe, Kristo; Autengruber, Maximilian; Lukacevic, Markus; Kalamees, Targo; Ruus, Aime; Annuk, Alvar; Füssl, Josef Journal of Building Engineering 2023 / art. 108097 <https://doi.org/10.1016/j.jobe.2023.108097> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Performance assessment of ventilative and radiant cooling systems in office buildings during extreme weather conditions under a changing climate

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Farahani, Azin Velashjerdi; Jokisalo, Juha; Korhonen, Natalia; Jylhä, Kirsti; Kosonen, Risto Journal of building engineering 2024 / art. 108348, 20 p. : ill <https://doi.org/10.1016/j.jobe.2023.108348> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)