

### **Avoiding mould growth in an interiorly insulated log wall**

**Alev, Üllar; Kalamees, Targo** Building and environment 2016 / p. 104-115 : ill <https://doi.org/10.1016/j.buildenv.2016.05.020> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Comparison of mineral wool, cellulose and reed mat for interior thermal insulation of log walls**

**Alev, Üllar; Uus, Andres; Kalamees, Targo** Journal of civil engineering and architecture research 2015 / p. 938-946 : ill

### **Designing highly insulated cross-laminated timber external walls in terms of hygrothermal performance : field measurements and simulations**

**Kukk, Villu; Kaljula, Laura; Kers, Jaan; Kalamees, Targo** Building and Environment 2022 / art. 108805

<https://doi.org/10.1016/j.buildenv.2022.108805> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Development of prefabricated additional insulation elements for the renovation of high-rise apartment buildings**

**Pihelo, Peep; Kalamees, Targo** Journal of sustainable architecture and civil engineering 2024 / p. 8-22

<https://doi.org/10.5755/j01.sace.35.2.35422>

### **Development of prefabricated additional insulation elements for the renovation of high-rise apartment buildings**

**Pihelo, Peep; Kalamees, Targo** 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 98-99 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17>

[https://www.ester.ee/record=b5668645\\*est](https://www.ester.ee/record=b5668645*est)

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

**Kalbe, Kristo; Pärn, Roland; Ruus, Aime; Kalamees, Targo** Journal of building engineering 2024 / art. 111411

<https://doi.org/10.1016/j.jobe.2024.111411>

### **European roadmap for the En-ActivETICS advancement and potential of the PV/PCM unventilated wall system application**

**Heim, Dariusz; Talvik, Martin; Wieprzkowicz, Anna; Ilomets, Simo; Knera, Dominika; Kalamees, Targo; Czarny, Dariusz** Energy and buildings 2023 / art. 113207 <https://doi.org/10.1016/j.enbuild.2023.113207> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Journal metrics at WOS](#) [Article at WOS](#)

### **Experimental study on hygrothermal performance and durability of sandwich wall panels made of fiber reinforced AAC and PU foam insulation**

**Klõšeiko, Paul; Talvik, Martin; Kaljuvee, Kaire; Tuisk, Tanel; Ilomets, Simo; Kalamees, Targo** Multiphysics and Multiscale

Building Physics: Proceedings of the 9th International Building Physics Conference (IBPC 2024) ; Volume 3: Building Systems and HVAC Technologies 2025 [https://doi.org/10.1007/978-981-97-8313-7\\_42](https://doi.org/10.1007/978-981-97-8313-7_42)

### **Failure analysis of a spray polyurethane foam roofing system**

**Kalamees, Targo; Põldaru, Mattias; Ilomets, Simo; Klõšeiko, Paul; Kallavus, Urve; Rosenberg, Margit; Õiger, Karl** Journal of building engineering 2020 / art. 101752, 9 p. : ill <https://doi.org/10.1016/j.jobe.2020.101752> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

[Journal metrics at WOS](#) [Article at WOS](#)

### **Field measurements of a MHM envelope with ETICS**

**Kukk, Villu; Kalamees, Targo; Kers, Jaan** Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 48-49 : ill [https://www.ester.ee/record=b5197207\\*est](https://www.ester.ee/record=b5197207*est)

### **Field study of hygrothermal performance of log wall with internal thermal insulation**

**Arumägi, Endrik; Ilomets, Simo; Kalamees, Targo; Tuisk, Tanel** XII International Conference on Durability of Building Materials and Components (XII DBMC), Porto, Portugal, April 12th-15th, 2011 2011 / p. 811-819 : ill

### **Field study on hygrothermal performance of highly insulated exterior wall in Estonia**

**Pihelo, Peep; Kalamees, Targo; Kikkas, Henri; Muring, Tõnu; Valge, Margus; Valler, Raimond** CLIMA 2016 - proceedings of the 12th REHVA World Congress. Vol. 2 2016 / [10] p. : ill [http://vbn.aau.dk/files/233715342/paper\\_188.pdf](http://vbn.aau.dk/files/233715342/paper_188.pdf)

### **Hygrothermal analysis of masonry wall with reed boards as interior insulation system**

**Keskküla, Kadri; Aru, Tambet; Kiviste, Mihkel; Miljan, Martti-Jaan** Energies 2020 / art. 5252, 10 p. : ill

<https://doi.org/10.3390/en13205252> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **Hygrothermal performance of a massive stone wall with interior insulation : an in-situ study for developing a retrofit measure**

**Klõšeiko, Paul; Kalamees, Targo; Arumägi, Endrik; Kallavus, Urve** Energy procedia 2015 / p. 195-200 : ill

### **Hygrothermal performance of highly insulated timber-frame external wall**

**Pihelo, Peep; Kikkas, Henri; Kalamees, Targo** Energy procedia 2016 / p. 685-695 : ill <https://doi.org/10.1016/j.egypro.2016.09.128> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Hygrothermal performance of internally insulated brick wall in cold climate : a case study in a historical school building**  
Klõšeiko, Paul; Arumägi, Endrik; Kalamees, Targo Journal of building physics 2015 / p. 444-464 : ill  
<https://doi.org/10.1177/1744259114532609> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Hygrothermal performance of thick PCM mortar behind PV panels in energy-activated ETICS facades**  
Talvik, Martin; Ilomets, Simo; Klõšeiko, Paul; Kalamees, Targo; Põldaru, Mattias; Heim, Dariusz Buildings 2023 / art. 1572  
<https://doi.org/10.3390/buildings13061572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Impact of built-in moisture on the design of hygrothermally safe cross-laminated timber external walls : a stochastic approach**  
Kukk, Villu; Kers, Jaan; Kalamees, Targo; Wang, Lin; Ge, Hua Building and environment 2022 / art. 109736  
<https://doi.org/10.1016/j.buildenv.2022.109736> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

**Influence of moisture dry-out on hygrothermal performance of prefabricated modular renovation elements**  
Pihelo, Peep; Lelumees, Magnus; Kalamees, Targo Energy procedia 2016 / p. 745-755 : ill  
<https://doi.org/10.1016/j.egypro.2016.09.137> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Moisture drying capacity of mineral wool insulated steel-faced sandwich panels by convection**  
Lomp, Siim; Kalbe, Kristo; Kalamees, Targo Acta Polytechnica CTU proceedings 2022 / p. 347-353  
<https://doi.org/10.14311/APP.2022.38.0347> [Conference proceedings at Scopus](#) [Article at Scopus](#)

**nZEB renovation with prefabricated modular panels**  
Pihelo, Peep; Kalamees, Targo; Kuusk, Kalle Energy procedia 2017 / p. 1006-1011 : ill <https://doi.org/10.1016/j.egypro.2017.09.708>  
[Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

**Performance evaluation and development of prefabricated insulation elements for renovation of apartment buildings with autoclaved aerated concrete external walls**  
Pihelo, Peep; Kalamees, Targo Energy and buildings 2025 / art. 115439 <https://doi.org/10.1016/j.enbuild.2025.115439>

**Performance of interiorly insulated log wall : Experiences from Estonian cold climate conditions**  
Kalamees, Targo; Arumägi, Endrik; Alev, Üllar Conference Report : The 3rd International Conference on Energy Efficiency in Historic Buildings 2018 / p. 99-107 : ill <http://eehb2018.com/wp-content/uploads/2018/09/Conference-Report-The-3rd-International-Conference-on-Energy-Efficiency-in-Historic-Buildings.pdf>

**Reliability of interior thermal insulation as a retrofit measure in historic wooden apartment buildings in cold climate**  
Arumägi, Endrik; Pihlak, Margus; Kalamees, Targo Energy procedia 2015 / p. 871-876 : ill

**The first year's results from the first passive house in Estonia**  
Kalamees, Targo; Kuusk, Kalle; Paap, Leena NSB 2014 : 10th Nordic Symposium on Building Physics, 15-19 June 2014, Lund, Sweden : full papers 2014 / p. 758-765 : ill