

## **Analysis of causes of the end of service life of a spray polyurethane foam and polyurea roof**

**Kalamees, Targo; Ilomets, Simo; Põldaru, Mattias; Klöšeiko, Paul; Kallavus, Urve; Rosenberg, Margit; Öiger, Karl** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 15002, 6 p. : ill <https://doi.org/10.1051/e3sconf/202017215002> Conference proceedings at Scopus Article at Scopus Article at WOS

## **Analysis of energy use in detached houses to determine energy performance requirements in Estonia**

**Ilomets, Simo; Kalamees, Targo; Köiv, Teet-Andrus** Proceedings of Clima2010 10th Rehva World Congress "Sustainable Energy Use in Buildings" : Antalya, 9-12.05.2010 2010 / [8] p

## **The analysis of indoor hygrothermal loads based on measurements in multi-storey wooden apartment buildings**

**Kalamees, Targo; Arumägi, Endrik; Thalfeldt, Martin; Ilomets, Simo; Klöšeiko, Paul; Alev, Üllar** Proceedings of the 5th International Building Physics Conference (IBPC) : Kyoto, Japan, May 28-31, 2012 2012 / p. 225-232 : ill

## **Case-study analysis of concrete large-panel apartment building at pre- and post low-budget energy-renovation**

**Kuusk, Kalle; Kalamees, Targo; Link, Siim; Ilomets, Simo; Mikola, Alo** Journal of civil engineering and management 2017 / p. 67-75 : ill <http://dx.doi.org/10.3846/13923730.2014.975741>

## **Case-study analysis on hygrothermal performance of ETICS on concrete wall after low-budget energy-renovation**

**Ilomets, Simo; Kalamees, Targo** Proceedings of XII International Conference on Performance of Exterior Envelopes of Whole Buildings 2013 / [15] p. : ill

## **Climate change and energy demand for heating and cooling of buildings in Finland**

Jylhä, Kirsti; Tietäväinen, Hanna; Ruosteenoja, Kimmo; **Kalamees, Targo; Jokisalo, Juha; Ilomets, Simo; Hyvönen, Reijo; Saku, Seppo** European Geosciences Union General Assembly, Vienna, Austria, 03–08 April, 2011 2011

## **Comparison of thermal performance of mineral wool and reflective insulation on internally insulated log wall**

**Alev, Üllar; Kalamees, Targo; Arumägi, Endrik; Ilomets, Simo** Proceedings of Healthy Buildings 2012 : Brisbane, Australia 8-12 July 2012 2012 / [6] p. : ill

## **Construction process and measuring initial dryout of PCM mortar in energy activated ETICS façade**

**Talvik, Martin; Ilomets, Simo; Klöšeiko, Paul; Kalamees, Targo; Heim, Dariusz** Thermal performance of the exterior envelopes of whole buildings 2022 / p. 757-764 <https://www.scopus.com/record/display.uri?eid=2-s2.0-85163701291&origin=inward&ttxGid=c83aa5cf70cab7322515343c3d634b25>

## **Development of weighting factors for climate variables for selecting the energy reference year according to the EN ISO 15927-4 standard**

**Kalamees, Targo; Jylhä, Kirsti; Tietäväinen, Hanna; Jokisalo, Juha; Ilomets, Simo; Hyvönen, Reijo; Saku, Seppo** Energy and buildings 2012 / p. 53-60

## **Durability of concrete and brick facades of apartment buildings built between 1960-90 in Estonia**

**Ilomets, Simo; Kalamees, Targo; Agasild, Tõnis; Öiger, Karl; Raado, Lembi-Merike** XII International Conference on Durability of Building Materials and Components (XII DBMC), Porto, Portugal, April 12th-15th, 2011 2011 / p. 1171-1178 : ill <https://www.irbnet.de/daten/iconda/CIB22471.pdf>

## **Eesti eluasemefondi ehitustehniline seisukord - ajavahemikul 1990-2010 kasutusele võetud korterelamud : uuringu lõpparuanne**

**Kalamees, Targo; Ilomets, Simo; Liias, Roode; Raado, Lembi-Merike; Kuusk, Kalle; Maivel, Mikk; Ründva, Marko; Klöšeiko, Paul; Liho, Eva; Paap, Leena; Mikola, Alo; Seinre, Erkki; Lill, Irene; Soekov, Erki; Paadam, Katrin; Ojamäe, Liis; Kallavus, Urve; Mikli, Lauri; Köiv, Teet-Andrus** 2012 [http://www.esther.ee/record=b2878060\\*est](http://www.esther.ee/record=b2878060*est)

## **Eesti eluasemefondi puitkorterelamute ehitustehniline seisukord ning prognoositav eluiga : uuringu lõpparuanne**

**Kalamees, Targo; Arumägi, Endrik; Just, Alar; Kallavus, Urve; Mikli, Lauri; Thalfeldt, Marko; Klöšeiko, Paul; Agasild, Tõnis; Liho, Eva; Haug, Priit; Tuurmann, Kristo; Liias, Roode; Öiger, Karl; Langepron, Priti; Orro, Oliver; Välja, Leele; Suits, Maris; Kodi, Georg-Mihkel; Ilomets, Simo; Alev, Üllar; Kurik, Lembit** 2011 [http://www.esther.ee/record=b2720728\\*est](http://www.esther.ee/record=b2720728*est)

## **Eesti eluasemefondi telliskorterelamute ehitustehniline seisukord ning prognoositav eluiga : uuringu lõpparuanne**

**Kalamees, Targo; Köiv, Teet-Andrus; Liias, Roode; Öiger, Karl; Kallavus, Urve; Mikli, Lauri; Ilomets, Simo; Kuusk, Kalle; Maivel, Mikk; Mikola, Alo; Klöšeiko, Paul; Agasild, Tõnis; Arumägi, Endrik; Liho, Eva; Ojang, Tanel; Tuisk, Tanel; Raado, Lembi-Merike; Jõesaar, Tõnu** 2010 [http://www.esther.ee/record=b2665958\\*est](http://www.esther.ee/record=b2665958*est)

## **The effect of temperature, humidity and mechanical properties on crack formation on external thin plasters of ETICS**

**Volkova, K.; Põldaru, Mattias; Ilomets, Simo; Kalamees, Targo; Talvik, Martin; Heim, Dariusz** Journal of physics : conference series 2021 / art. 012025, 8 p. : ill <https://doi.org/10.1088/1742-6596/2069/1/012025> Conference Proceedings at Scopus Article at Scopus

### **Ehituse teekaart 2040 [Võrguväljaanne]**

Freimann, Maria; **Ilomets, Simo**; Karafin, Miina; **Kurnitski, Jarek** 2023 [https://rohetiiger.ee/wp-content/uploads/2023/04/EHITUSE-TEEKAAART-2040-v1.pdf?fbclid=IwAR1\\_jjRZmtPtKibMUw\\_lu\\_ru7btzHmt2h2qceafhQJ6SXQtAqnPcXJvWs](https://rohetiiger.ee/wp-content/uploads/2023/04/EHITUSE-TEEKAAART-2040-v1.pdf?fbclid=IwAR1_jjRZmtPtKibMUw_lu_ru7btzHmt2h2qceafhQJ6SXQtAqnPcXJvWs)

### **Ehitusteadlased selgitavad : miks me kannatame siseruumides liiga kuiva õhu käes?**

Nõges, Krõõt Ehitaja 2020 / lk. 45-46 [http://www.estr.ee/record=b1072123\\*est](http://www.estr.ee/record=b1072123*est)

### **Ehitusteadlased selgitavad, miks on talvel siseruumides liiga kuiv õhk [Võrguväljaanne]**

novaator.err.ee 2020 / fot [Ehitusteadlased selgitavad, miks on talvel siseruumides liiga kuiv õhk](#)

### **Energy performance of ETICS integrated with a flexible photovoltaic panel**

Heim, Dariusz; Wieprzowicz, Anna; Knery, Dominika; **Ilomets, Simo**; **Kalamees, Targo**; Spitalsky, Zdeno Building simulation conference proceedings 2022 / p. 64-71 <https://doi.org/10.26868/25222708.2021.30194>

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

Heim, Dariusz; **Talvik, Martin**; Wieprzowicz, Anna; **Ilomets, Simo**; Knery, Dominika; **Kalamees, Targo**; Czarny, Dariusz Energy and buildings 2023 / art. 113207 <https://doi.org/10.1016/j.enbuild.2023.113207>

### **Evaluation of the criticality of thermal bridges**

**Ilomets, Simo**; **Kalamees, Targo** Journal of building pathology and rehabilitation 2016 / art. 11, p. 1-13 : ill  
<http://dx.doi.org/10.1007/s41024-016-0005-6>

### **Evaluation of the thermal bridges of prefabricated concrete large-panel and brick apartment buildings in Estonia**

**Ilomets, Simo**; **Kalamees, Targo**; Paap, Leena Proceedings of the 9th Nordic Symposium on Building Physics (NSB 2011), 29 May-2 June 2011, Tampere, Finland. Vol. 3 2011 / p. 943-950 : ill

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

**Kalamees, Targo**; **Põldaru, Mattias**; **Ilomets, Simo**; **Klöšeiko, Paul**; **Kallavus, Urve**; **Rosenberg, Margit**; **Öiger, 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](#)

### **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

### **Hygrothermal performance of thick PCM mortar behind PV panels in energy-activated ETICS facades**

**Talvik, Martin**; **Ilomets, Simo**; **Klöšeiko, Paul**; **Kalamees, Targo**; **Põldaru, Mattias**; Heim, Dariusz Buildings 2023 / art. 1572 <https://doi.org/10.3390/buildings13061572>

### **Impact of ETICS on corrosion propagation of concrete facade**

**Ilomets, Simo**; **Kalamees, Targo**; Lahdensivu, Jukka; **Klöšeiko, Paul** Energy procedia 2016 / p. 67-76 : ill  
<https://doi.org/10.1016/j.egypro.2016.09.101>

### **Impact of linear thermal bridges on thermal transmittance of renovated apartment buildings**

**Ilomets, Simo**; **Kuusk, Kalle**; Paap, Leena; Arumägi, Endrik; **Kalamees, Targo** Journal of civil engineering and management 2017 / p. 96-104 : ill <http://dx.doi.org/10.3846/13923730.2014.976259>

### **Indoor climate loads for dwellings in different cold climates to assess hygrothermal performance of building envelopes**

**Ilomets, Simo**; **Kalamees, Targo**; Tariku, Fitsum Canadian journal of civil engineering 2019 / p. 963-968 <https://doi.org/10.1139/cjce-2019-0079> [Journal metrics at Scopus Article at Scopus](#) [Journal metrics at WOS Article at WOS](#)

### **Indoor climate loads to assess hygrothermal performance of building envelope [Online resource]**

**Ilomets, Simo**; **Kalamees, Targo** Durability and Climate Change : Changing Climatic loads as may affect the Durability of Building Materials, Components and Assemblies : proceedings of the CIB / NRC Symposium : National Research Council Canada, Construction Research Center, Ottawa, Canada, 21 September, 2018 2018 / p. 9-10 : ill  
[https://site.cibworld.nl/dl/publications/W080\\_pub414.pdf](https://site.cibworld.nl/dl/publications/W080_pub414.pdf)

### **Indoor hygrothermal conditions in Estonian old multi-storey brick apartment buildings**

**Kalamees, Targo**; **Ilomets, Simo**; Arumägi, Endrik; Alev, Üllar; Köiv, Teet-Andrus; Mikola, Alo; **Kuusk, Kalle**; Maivel, Mikk The 12th International Conference on Indoor Air Quality and Climate, June 5-10, 2011, Austin, Texas, USA 2011 / [6] p

### **Indoor hygrothermal loads for the deterministic and stochastic design of the building envelope for dwellings in cold climates**

**Ilomets, Simo**; **Kalamees, Targo**; Vinha, Juha Journal of building physics 2018 / p. 547-577 : ill

**Indoor temperature and humidity conditions in Estonian old multi-storey apartment buildings composed of prefabricated concrete elements**

**Kalamees, Targo; Kõiv, Teet-Andrus; Arumägi, Endrik; Ilomets, Simo** Proceedings of Clima2010 10th Rehva World Congress "Sustainable Energy Use in Buildings" : Antalya, 9-12.05.2010 2010 / [8] p

**Indoor temperature and humidity conditions in modern Estonian apartment buildings**

**Kalamees, Targo; Ilomets, Simo; Kuusk, Kalle; Paap, Leena** Proceedings of CLIMA 2013 : 11th REHVA World Congress and the 8th International Conference on Indoor Air Quality, Ventilation and Energy Conservation in Buildings, Prague 16th-19th June, 2013 2013 / [10] p. : ill

**Maaelamute sisekliima, ehitusfüüsika ja energiasäest I : uueringu I etapi lõpparuanne**

**Kalamees, Targo; Alev, Üllar; Arumägi, Endrik; Ilomets, Simo; Just, Alar; Kallavus, Urve** 2011

[http://www.esther.ee/record=b2665966\\*est](http://www.esther.ee/record=b2665966*est)

**A method to develop energy activated ETICS**

**Ilomets, Simo**; Heim, Dariusz; Chodak, Ivan; Czarny, Dariusz; **Kalamees, Targo** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 21006, 8 p. : ill

<https://doi.org/10.1051/e3sconf/202017221006> Conference proceeding at Scopus Article at Scopus Article at WOS

**Miks neid koledaid paneelmaju juba ei lammutata**

Martin, Anni; **Ilomets, Simo** Maja : Eesti arhitektuuri ajakiri = Estonian architectural review 2023 / lk. 71-81 <https://ajakirimaja.ee/maja-kevad-2023-moratoorium/> [https://www.esther.ee/record=b1072550\\*est](https://www.esther.ee/record=b1072550*est)

**Milline on Mustamäe tervis? : [noorteadlaste konkursi Teadus kolme minutiga ettekanne]**

**Ilomets, Simo** Teadus kolme minutiga : 2017-2019 2019 / lk. 80-83 : portr., ill [https://www.esther.ee/record=b5245642\\*est](https://www.esther.ee/record=b5245642*est)

**On site measurement and hygrothermal modelling of degraded ETICS facade with EPS and mineral wool fire breaks**

Talvik, Martin; Klöšeiko, Paul; Kalamees, Targo; Liisma, Eneli; Ilomets, Simo Journal of Physics: Conference Series 2023 / 8 p <https://doi.org/10.1088/1742-6596/2654/1/012124>

**Performance testing of frost damage model by hygrothermal simulation**

**Ilomets, Simo; Kalamees, Targo; Raado, Lembi-Merike** Proceedings of the 5th International Building Physics Conference (IBPC) : Kyoto, Japan, May 28-31, 2012 2012 / p. 73-80 : ill

**Principles to select new test reference year assessing the annual energy for heating and cooling of buildings in Finland**

**Kalamees, Targo**; Jylhä, Kirsti; Tietäväinen, Hanna; Jokisalo, Juha; **Ilomets, Simo**; Ruosteenoja, Kimmo; Hyvönen, Reijo; Saku, Seppo; Hutila, A. The 12th International Conference on Air Distribution in Rooms, June 19-22, 2011, Trondheim, Norway 2011 / [8] p [https://www.academia.edu/72130372/Principles\\_to\\_select\\_new\\_test\\_reference\\_year\\_assessing\\_the\\_annual\\_energy\\_for\\_heating\\_and\\_cooling\\_of\\_buildings\\_in\\_Finland](https://www.academia.edu/72130372/Principles_to_select_new_test_reference_year_assessing_the_annual_energy_for_heating_and_cooling_of_buildings_in_Finland)

**Renovation need and performance of envelopes of concrete apartment buildings in Estonia = Eesti raudbetoon-suurpaneelilamute piirdetarindite renoveerimisvajadus ja toimivus**

**Ilomets, Simo** 2017 <https://digi.lib.ttu.ee/i/?7670>

**Renovation vs. demolition of an old apartment building : energy use, economic and environmental analysis**

Kuusk, Kalle; Ilomets, Simo; Kalamees, Targo; Tuudak, Sten; Luman, Andre NSB 2014 : 10th Nordic Symposium on Building Physics, 15-19 June 2014, Lund, Sweden : full papers 2014 / p. 1213-1220 : ill

**Renoveerid kodu? Tehnikaülikooli teadur selgitab, kuidas ja millest alustada [Võrguväljaanne]**

Kostap, Kristina postimees.ee 2022 [Renoveerid kodu? Tehnikaülikooli teadur selgitab, kuidas ja millest alustada](#)

**Research demand of old apartment buildings in Estonia**

**Kalamees, Targo; Ilomets, Simo; Arumägi, Endrik; Kuusk, Kalle; Liias, Roode; Kõiv, Teet-Andrus; Ōiger, Karl** IEA Annex 55 (RAP-RETRO) : working meeting : Holzkirchen, Germany, 15-16 April, 2010 2010 / [8] p

**Ringrenoveerimise projekt töi Tartusse ehitusmaterjalide taaskasutuspanga = В Тарту появился банк по переработке строительных материалов**

Elamu : Eesti Korteriühistute Liidu ajakiri Союз Квартирных Товариществ Эстонии 2024 / Lk. 14-15 [https://www.esther.ee/record=b1072137\\*est](https://www.esther.ee/record=b1072137*est)

**Soovid oma kodu energiatõhusust suurendada? Üheks variandiks on kodu renoveerimine [Võrguväljaanne]**

Ilomets, Simo arileht.delfi.ee 2022 [Soovid oma kodu energiatõhusust suurendada? Üheks variandiks on kodu renoveerimine](#)

**Tallinna linnahallitusest uue mõtteviisini : saatuse selgumiseni võiks Linnahalli kasutada varemepargina**

**Taltech : hoonete renoveerimise vajadus kasvab hüppeliselt**

**Ilomets, Simo** Ehitaja 2022 / lk. 38-39 [https://www.estet.ee/record=b1072123\\*est](https://www.estet.ee/record=b1072123*est) [https://artiklid.elnet.ee/record=b2900831\\*est](https://artiklid.elnet.ee/record=b2900831*est)

**TalTechi vanemlektor: uute hoonete asemel peaksime väärustama olemasolevaid**

Rebane, Karmen kultuur.err.ee 2023 [TalTechi vanemlektor: uute hoonete asemel peaksime väärustama olemasolevaid](#)

**Talvise toaõhu kuivus sai selgemaks**

Imeline Teadus 2020 / lk. 20 : fot [https://www.estet.ee/record=b2747925\\*est](https://www.estet.ee/record=b2747925*est)

**Tartus valmis esimene ringkasutatud ehitusmaterjalidest rattapaviljon**

postimees.ee 2023 [Tartus valmis esimene ringkasutatud ehitusmaterjalidest rattapaviljon](#)

**The analysis of indoor hygrothermal conditions in multi-storey wooden apartment buildings**

**Kalamees, Targo; Arumägi, Endrik; Ilomets, Simo** IEA Annex 55 (RAP-RETRO), Working meeting, Porto, Portugal, 18-20 April 2011 / [17] p

**The integration of selected technology to energy activated ETICS - theoretical approach**

Heim, Dariusz; Chodak, Ivan; **Ilomets, Simo**; Knera, Dominika; Wieprzkowicz, Anna; **Kalamees, Targo** E3S Web of Conferences : 12th Nordic Symposium on Building Physics (NSB 2020) : Tallinn, Estonia, September 6-9, 2020 2020 / art. 21004, 7 p. : ill  
<https://doi.org/10.1051/e3sconf/202017221004> Conference proceeding at Scopus Article at Scopus Article at WOS

**Thermal performance of ETICS, energy activated with PCM and PV**

**Talvik, Martin; Ilomets, Simo; Kalamees, Targo; Klöšeiko, Paul;** Heim, Dariusz; Wieprzkowicz, Anna; Knera, Dominika Journal of physics : conference series 2021 / art. 012116, p. 1-8 : ill <https://doi.org/10.1088/1742-6596/2069/1/012116> Conference Proceedings at Scopus Article at Scopus

**Towards improving the durability and overall performance of PV-ETICS by application of a PCM layer**

Heim, Dariusz; Wieprzkowicz, Anna; Knera, Dominika; **Ilomets, Simo; Kalamees, Targo;** Spitalsky, Zdenko Applied sciences 2021 / art. 4667, 13 p. : ill <https://doi.org/10.3390/app11104667> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

**Validation of the method to evaluate the corrosion propagation stage by hygrothermal simulation**

**Ilomets, Simo; Kalamees, Targo;** Lahdensivu, Jukka CESB 16 - Central Europe Towards Sustainable Building 2016 : Innovations for Sustainable Future : [book of abstracts] 2016 / p. 317-318 : ill

**Validation of the method to evaluate the corrosion propagation stage by hygrothermal simulation [Online resource]**

**Ilomets, Simo; Kalamees, Targo;** Lahdensivu, Jukka CESB 16 - Central Europe Towards Sustainable Building 2016 : Innovations for Sustainable Future : [electronic proceedings] 2016 / p. 1113-1120 : ill

**Эстоноземельцы мерзнут в старых домах, где нет никакой теплоизоляции. Как так получилось?**

Izumrudov, Artur rus.delfi.ee 2023 [Эстоноземельцы мерзнут в старых домах, где нет никакой теплоизоляции. Как так получилось?](#)