

Akende vale paigaldus võib rikkuda uutesse akendesse tehtud investeeringu

Martin, Anni; Talvik, Martin delfi.ee 2025 [Akende vale paigaldus võib rikkuda uutesse akendesse tehtud investeeringu](https://kliimaministeerium.ee/buildest/tehnilised-lahendused)
<https://kliimaministeerium.ee/buildest/tehnilised-lahendused>

Analysis of on-site construction processes for effective external thermal insulation composite system (ETICS) installation

Sulakatko, Virgo; Lill, Irene; Liisma, Eneli Procedia economics and finance 2015 / p. 297-305 : ill

Comparison of simplified and detailed window models in energy simulations

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Proceedings of REHVA Annual Conference "Advanced HVAC and Natural Gas Technologies" : Riga, Latvia, May 6-9, 2015 2015 / p. 26-31 : ill

Comparison of simplified and detailed window models in office building energy simulations

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik Energy procedia 2015 / p. 2076-2081 : ill

<https://doi.org/10.1016/j.egypro.2015.11.235> Conference proceedings at Scopus Article at Scopus Article at WOS

Cost optimal and nearly zero energy building solutions for office buildings

Pikas, Ergo; Thalfeldt, Martin; Kurnitski, Jarek Energy and buildings 2014 / p. 30-42 : ill <https://doi.org/10.1016/j.enbuild.2014.01.039>
Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Daylight availability and cooling in commercial buildings - the influence of facade design

Voll, Hendrik; Kõiv, Teet-Andrus WSEAS transactions on advances in engineering education 2009 / 9, p. 316-326 : ill

Defect analysis of renovated facade walls with etics solutions in cold climate conditions

Liisma, Eneli; Sepri, Raili; Raado, Lembi-Merike; Lill, Irene; Witt, Emlyn David Qivitoq; Sulakatko, Virgo; Põldaru, Mattias CESB 16 - Central Europe Towards Sustainable Building 2016 : Innovations for Sustainable Future : [book of abstracts] 2016 / p. 65-66

Defect analysis of renovated facade walls with etics solutions in cold climate conditions [Online resource]

Liisma, Eneli; Sepri, Raili; Raado, Lembi-Merike; Lill, Irene; Witt, Emlyn David Qivitoq; Sulakatko, Virgo; Põldaru, Mattias CESB 16 - Central Europe Towards Sustainable Building 2016 : Innovations for Sustainable Future : [electronic proceedings] 2016 / p. 174-181 : ill

Degradation of imidazolium-based ionic liquids by UV photolysis and pulsed corona discharge combined with persulfate

Nikitin, Dmitri; Preis, Sergei; Dulova, Niina 18th International Conference on Chemistry and the Environment (ICCE 2023), June 11-15, 2023 : Book of abstracts 2023 / p. 394 <https://icce2023.com/wp-content/uploads/2023/06/Book-of-Abstracts.pdf>

Deterioration of building envelope of wooden apartment buildings built before 1940 based on external survey

Klõšeiko, Paul; Agasild, Tõnis; Kalamees, Targo Proceedings of the 9th Nordic Symposium on Building Physics (NSB 2011), 29 May-2 June 2011, Tampere, Finland 2011 / p. 917-924 : ill
https://www.researchgate.net/publication/290428833_Deterioration_of_building_envelope_of_wooden_apartment_buildings_built_before_1940_based_on_external_survey

Distribution of solar irradiance on inclined surfaces due to the plane of the ground

Tomson, Teolan; Voll, Hendrik Journal of power and energy engineering 2014 / p. 1-10 : ill

Doktoritöö: Kesk-Euroopa levinud soojustust tasub Eestis üheksa korda mõõta [Võrguväljaanne]

Harrik, Airika novaator.err.ee 2022 [Doktoritöö: Kesk-Euroopa levinud soojustust tasub Eestis üheksa korda mõõta](https://novaator.err.ee/2022/06/28/doktoritoo-kesk-euroopa-levinud-soojustust-tasub-eestis-ueheksa-korda-mootta) [Hygrothermal Performance of Masonry Walls Retrofitted with Interior Insulation in Cold Climate = Kiviseinte seespoolse lisasoojustuse soojus- ja niiskustehniline toimivus külmas kliimas](https://novaator.err.ee/2022/06/28/doktoritoo-kesk-euroopa-levinud-soojustust-tasub-eestis-ueheksa-korda-mootta)

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>

Energy efficient daylight assessment - the influence of facade design

Voll, Hendrik; Kõiv, Teet-Andrus Selected topics on energy and development-environment-biomedicine 2009 : proceedings of the 3rd International Conference on Energy and Development-Environment-Biomedicine (EDEB 09) 2009 / p. 47-52

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

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

Exploring the performance of CLT external walls enhanced with wood-fibre-based ETICS: preliminary field measurement insights

Kukk, Villu; 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 / p. 392-397 https://doi.org/10.1007/978-981-97-8313-7_54

External shading control principles for low energy office buildings

Thalfeldt, Martin; Kurnitski, Jarek NSB 2014 : 10th Nordic Symposium on Building Physics, 15-19 June 2014, Lund, Sweden : full papers 2014 / p. 806-813 : ill

External shading optimal control macros for 1- and 2-piece automated blinds in European climates

Thalfeldt, Martin; Kurnitski, Jarek Building simulation 2015 / p. 13-25 : ill <https://doi.org/10.1007/s12273-014-0194-3> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Facade design principles for nearly zero energy buildings in a cold climate

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy and buildings 2013 / p. 309-321 : ill <https://doi.org/10.1016/j.enbuild.2013.08.027> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fassaadide võrdlev mõõdistus tahhümeetria, maapealse fotogramm-meetria ja laserskaneerimise teel

Elmi, Liis; Märdla, Silja; Ellmann, Artu Geodeet 2014 / lk. 92-94, 96-101 : ill https://artiklid.elnet.ee/record=b2721043*est

Heat loss characteristics of typology-based apartment building external walls for a digital twin-based renovation strategy tool

Ilste, Elisa; Lomp, Siim; Pikas, Ergo; Arumägi, Endrik; Hallik, Jaanus; Öiger, Karl; Kisel, Einari; Liiv, Innar; Kalamees, Targo Journal of Physics: Conference Series 2023 / 8 p <https://doi.org/10.1088/1742-6596/2654/1/012125> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Hoonete planeerimine ja fassaadide kujundamine

Voll, Hendrik 2011 http://www.ester.ee/record=b2724889*est

Hygrothermal criteria for design of cross-laminated timber external walls with ventilated facades = Soojus- ja niiskustehnilised kriteeriumid tuulduva fassaadiga riskihtliimpuidust välisseinte projekteerimiseks

Kukk, Villu 2022 <https://doi.org/10.23658/taltech.33/2022> <https://digikogu.taltech.ee/et/Item/aedf3ed3-26d7-49be-b386-20cd705ac4b7> https://www.ester.ee/record=b5501869*est

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 ETICS on corrosion propagation of concrete facade

Ilomets, Simo; Kalamees, Targo; Lahdensivu, Jukka; Klõšeiko, Paul Energy procedia 2016 / p. 67-76 : ill <https://doi.org/10.1016/j.egypro.2016.09.101> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Impact of internal heat gain profiles on the design cooling capacity of landscaped offices

Seyed Salehi, Seyed Shahabaldin; Ferrantelli, Andrea; Aljas, Hans Kristjan; Kurnitski, Jarek; Thalfeldt, Martin E3S Web Conference: Cold Climate HVAC and Energy 2021 2021 / art. 07003, 7 p. : ill <https://doi.org/10.1051/e3sconf/202124607003> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Increasing construction quality of External Thermal Insulation Composite System (ETICS) by revealing on-site degradation factors

Sulakatko, Virgo; Liisma, Eneli; Soekov, Erki Procedia environmental sciences 2017 / p. 765-772 : tab <https://doi.org/10.1016/j.proenv.2017.03.160>

Indoor Overheating Risks of Pv-Etics and Dark-Coloured Facades : Experimental and Simulation-Based Assessment

Talvik, Martin; Ilomets, Simo; Kalamees, Targo SSRN 2025 / 16 p <https://doi.org/10.2139/ssrn.5264960> https://papers.ssrn.com/sol3/papers.cfm?abstract_id=5264960

Influence of Silane on water absorption properties of lime-based thermal insulation and renovation mortars

Ruus, Aime; Oja, Kai-Liis; Mihkelsoo, Karin; Mihkelsoo, Madis; Tungel, Ernst; Kiviste, Mihkel Multiphysics and Multiscale Building Physics : Proceedings of the 9th International Building Physics Conference (IBPC 2024) ; Volume 1: Moisture and Materials 2025 / p. 467-473 https://doi.org/10.1007/978-981-97-8305-2_66

Inspireeriv Interstudio

Moodne Kodu : AS Ekspress Meedia teema- ja erialalehtede osakonna väljaanne : kuukiri 2022 / Lk. 16
<https://dea.digar.ee/article/eemoodnekodu/2022/11/30/14.1>

Kangaga kaetud hooned : tõusev trend fassaadide maailmas

Poom, Peeter; Neeme, Ergo; Ulla, Kristel; Schutting, Anni Kõik ärikinnisvarast : [ajalehe Äripäev lisa] 2019 / lk. 12-13 : fot
<https://www.ariptev.ee/sisuturundus/2019/04/01/kangaga-kaetud-hooned-tousev-trend-fassaadide-maailmas>

Kivifassaad on kindel, püsiv ja hooldusvaba

Juurvee, Uno Ehitaja 2004 / 3, lk. 76-77 https://artiklid.elnet.ee/record=b1015411*est

Kommentaar [artiklile: Šungiit - imekivi või ehitusmaterjal? / Mait Eelrand]

Raado, Lembi-Merike; Eelrand, Mait Ehitaja 2005 / 5, lk. 61 https://artiklid.elnet.ee/record=b2013198*est

Kuidas välisvarjestusega (energiat) kokku hoida

Kurnitski, Jarek; Thalfeldt, Martin Inseneeria 2014 / lk. 20-21 : ill https://artiklid.elnet.ee/record=b2672919*est

Madalenergia büroohoone fassaadi majandusanalüüs

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek Ehitaja 2015 / lk. 22-25 : ill https://artiklid.elnet.ee/record=b2720865*est

Madalenergia büroohoone fassaadi majandusanalüüs

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek Liginullenergiahooned täna ja homme : artiklite kogumik 2015 / lk. 52-58 : ill

Measured hygrothermal performance of energy activated facade in cold climate

Talvik, Martin; Kalamees, Targo; Ilomets, Simo Journal of building physics 2025 / p. 1-27 <https://doi.org/10.1177/174425912413124>

Mida teha, kui fassaad vajab uuendamist? = Что делать, если фасад требует ремонта?

Kalamees, Targo Elamu 2021 / lk. 16-17 : fot.; c. 38-39 : фот https://www.ester.ee/record=b1072137*est

Millega tuleb arvestada CLT-paneelidest maju ehitades?

Kukk, Villu Ehitaja 2022 / lk. 42 https://www.ester.ee/record=b1072123*est

Millega tuleb arvestada Eestis CLT-paneelidest maju ehitades? [Võrguväljaanne]

ehitusuudised.ee 2022 [Millega tuleb arvestada Eestis CLT-paneelidest maju ehitades?](https://ehitusuudised.ee/2022/04/01/millega-tuleb-arvestada-eestis-clt-paneelidest-maju-ehitades/)

Modelling construction process impact factors on degradation of thin rendered facades = Ehitusprotsessi mõjufaktorite modelleerimine õhekrohv fassaadide lagunemisel = Methode zur Bewertung der Relevanz von beeinflussenden Faktoren im Bauprozess auf die Mängelfreiheit von Wärmedämmverbundsystemen

Sulakatko, Virgo 2019 <https://digi.lib.ttu.ee/i/?11575>

Natural weathering of bio-based façade materials

Alao, Percy Festus; Visnapuu, Kevin; Kallakas, Heikko; Poltimäe, Triinu; Kers, Jaan Forests 2020 / art. 642, 12 p. : ill
<https://doi.org/10.3390/f11060642> Journal metrics at Scopus Article at Scopus Journal metrics at WOS Article at WOS

Niiskusturvalisus on tähtis: millega tuleks arvestada CLT-paneelidest maju ehitades? [Võrguväljaanne]

digi.geenius.ee 2022 on tähtis: millega tuleks arvestada CLT-paneelidest maju ehitades? <https://digikogu.taltech.ee/et/Item/aedf3ed3-26d7-49be-b386-20cd705ac4b7>

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

Talvik, Martin; Klõšeiko, 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> Conference proceedings at Scopus Article at Scopus

Optimization of office building facades in a warm summer continental climate

Hani, Allan; Kõiv, Teet-Andrus Smart grid and renewable energy 2012 / p. 222-230 : ill
https://www.scirp.org/pdf/sgre20120300008_98662255.pdf

Performance of a building integrated semitransparent photovoltaic facade on a residential house in Northern Europe

Jagomägi, Andri; Wimmer, Andreas; Thalfeldt, Martin EU PVSEC 2017 : 33rd European Photovoltaic Solar Energy Conference and Exhibition : 25-29 September 2017, Amsterdam, The Netherlands 2017 / p. 2537-2547
<http://dx.doi.org/10.4229/EUPVSEC20172017-6BV.3.46>

POLYALPAN - üks võimalik fassaadikattermaterjal

Õiger, Karl Ehituskaar 1997 / 10, lk. 14-16: ill

Polyalpan - üks võimalik fassaadikattermaterjal

Õiger, Karl Ehitaja 1998 / lk. 20-21: ill https://www.ester.ee/record=b1072123*est

Päikesepaneelid seinale ja katusele - las maja ise toodab elektrit!

Einama, Kaido postimees.ee 2022 / lk. 11 : fot [Päikesepaneelid seinale ja katusele – las maja ise toodab elektrit!](#)

Ristkihtliimpuidust paneel – kas tulevikus Eestis levinud ehitusmaterjal? [Võrguväljaanne]

postimees.ee 2022 [Ristkihtliimpuidust paneel – kas tulevikus Eestis levinud ehitusmaterjal?](#)

Selection of the insulation materials for refurbishment purposes

Lill, Irene; Kanapeckiene, Loreta; Tupenaite, Laura; Naimaviciene, Jurga Engineering structures and technologies 2017 / p. 104-115 : ill <https://doi.org/10.3846/2029882X.2017.1339296>

Solar radiation-based method for early design stages to balance daylight and thermal comfort in office buildings

Sepulveda Luque, Abel; Seyed Salehi, Seyed Shahabaldin; De Luca, Francesco; Thalfeldt, Martin Frontiers of architectural research 2023 / p. 1030 - 1046 <https://doi.org/10.1016/j.foar.2023.07.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Tallinna Kunstihoone 1934-1940 : ehitamine ja arhitektuur = Tallinn Art Hall 1934-1940 : construction and architecture

Hallas-Murula, Karin 2014 https://www.ester.ee/record=b4411143*est

Tallinna punased tornmajad lagunevad : [TTÜ professor Karl Õiger kortermajade seisukorrast]

Aljas, Riin Eesti Päevaleht 2013 / lk. 6

TalTechi magistritöö uuris levinud fassaaditüübi vastupidavust niiskuskahjustusele

ehitusleht.ee 2024 [TalTechi magistritöö uuris levinud fassaaditüübi vastupidavust niiskuskahjustusele](#)
<https://digikogu.taltech.ee/et/Item/a7bd8f1e-7e1a-4f49-8ccd-8033776c8147>

TalTechi vanemteadur valmistas seadme, mis avarab oluliselt roheenergia kasutusvõimalusi [Online resource]

rohe.geenius.ee 2022 ["TalTechi vanemteadur valmistas seadme, mis avarab oluliselt roheenergia kasutusvõimalusi"](#)

Tehases toodetud valmiselemendid annavad renoveerimisele kiirema käigu

Vilk, Urve Äripäev 2020 / Lk. 8, 10-11 <https://dea.digar.ee/publication/aripaev>

Tehnikaülikoolis loodud uudne muundur liidab erinevad päikeseelektri tehnoloogiad ühte võrku [Võrguväljaanne]

postimees.ee 2022 ["Tehnikaülikoolis loodud uudne muundur liidab erinevad päikeseelektri tehnoloogiad ühte võrku"](#)

The effect of moisture content of insulation boards on the adhesion strenght of ETICS

Liisma, Eneli; Raado, Lembi-Merike; Lumi, Silver; Lill, Irene; Sulakatko, Virgo Recent advances in civil engineering and mechanics : [proceedings of the 5th ECCIE'14, 2nd CEM'14, 2nd OTENG'14 : Florence, Italy, November 22-24, 2014] 2014 / p. 103-108 : ill

The effect of temperature and humidity on the permanence of external thermal insulation composite systems

Liisma, Eneli; Lõhmus, Gert; Raado, Lembi-Merike Procedia engineering 2015 / p. 340-348 : ill
<https://doi.org/10.1016/j.proeng.2015.06.156> [Conference proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

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](#)

The problems in the use of limestone together with timber in facades

Kallavus, Urve Proceedings of the Baltic Symposium on Indoor Air Quality and Building Physics : a satellite conference of Healthy Buildings 2000, August 6-10, 2000, Espoo, Finland : Tallinn Technical University, Estonia, 11-12 August, 2000 2000 / p. 98-103 : ill

Total economy of energy-efficient office building facades in a cold climate = Külmas kliimas asuvate energiatõhusate büroohoonete fassaadi energia- ja majandusanalüüs

Thalfeldt, Martin 2016 <https://digi.lib.ttu.ee/it/?4068> https://www.ester.ee/record=b4552059*est

Total economy of windows and facades in low energy office buildings

Thalfeldt, Martin; Kurnitski, Jarek; Voll, Hendrik; Pikas, Ergo The REHVA European HVAC journal 2014 / p. 19-24 : ill

Towards Nearly Zero-Energy Buildings through analyzing reasons for degradation of facades

Sulakatko, Virgo; Lill, Irene; Soekov, Erki; Arhipova, Riina; Witt, Emlyn David Qivitoq; Liisma, Eneli Procedia economics and finance 2014 / p. 592-600 : ill

Window model and 5 year price data sensitivity to cost-effective facade solutions for office buildings in Estonia

Thalfeldt, Martin; Pikas, Ergo; Kurnitski, Jarek; Voll, Hendrik Energy 2017 / p. 685-697 : ill

<https://doi.org/10.1016/j.energy.2017.06.160> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Välisfassaadi soojustamine – kuidas vältida levinud vigu ja tagada lahenduse pikaajalisus?

Martin, Anni delfi.ee 2025 [Välisfassaadi soojustamine – kuidas vältida levinud vigu ja tagada lahenduse pikaajalisus?](#)

Кирпичный фасад : прочно, надежно и никаких забот

Juurvee, Uno Строитель 2004 / 2, с. 30-31 : ил https://artiklid.elnet.ee/record=b1015702*est

Фасадная керамика на базе глин Латвийской ССР

Kisis, Elina 1956

Фасадная керамика на базе глин Латвийской ССР

Kisis, Elina 1956 http://www.ester.ee/record=b2154813*est