

Kansainväliset vertaisarvioidut konferenssiartikkelit

2025

Huttunen, P. & Vinha, J. 2025. **Hygrothermal Performance of Wood Shavings as Thermal Insulation of Exterior Walls in Cold Climate**. International Building Physics Conference, IBPC 2024, Toronto, Canada.

2024

Raunima, T., Ketko, J., Laukkarinen, A. & Vinha, J. 2024. **The effects of nightly shutdown of ventilation on indoor air pressure difference conditions and TVOC and radon concentrations in Finnish schools and day-care centres**. RoomVent 2024 Conference, Stockholm, Sweden.

Salo, L., Silvonen, V., Raunima, T., Vojtisek-Lom, M., Ondracek, J., Topinka, J., Schins, R., Lepistö, T., Lintusaari, H., Saarikoski, S., Barreira, L., Hoivala, J., Markkula, L., Kulmala, I., Vinha, J., Karjalainen, P. & Rönkkö, T. 2024. **Particle number concentrations in office spaces around Europe**. 18th International Conference on Indoor Air Quality and Climate, INDOOR AIR 2024 - Honolulu, United States.

2023

Tuominen, E. & Vinha, J. 2023. **Ruggedness test made with mortars by free water intake test**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

Sekki, P., Raunima, T. & Vinha, J. 2023. **Measurement and modelling of the moisture distribution in early-age concrete in the joint of composite beam and hollow core slab**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

Karjala, P., Tuurala, I., Tuominen, E., Valovirta, I. & Vinha, J. 2023. **Hygrothermal properties of hollow brick masonry used in veneer**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

Raunima, T., Tuominen, E. & Vinha, J. 2023. **Effects of coating a drying Calcium Sulphate Floor on the relative humidity of the Structure**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

Moisio, T., Valovirta, I., Laukkanen, A. & Vinha, J. 2023. **Hygrothermal performance of corners and floor junctions of timber-framed exterior walls: a simulation study**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

Vänttinen, K., Tuominen, O., Tuominen, E., Valovirta, I., Karjala, P., Tuurala, I. & Vinha, J. 2023. **Equilibrium Moisture Content of High Strength Concrete Used in Hollow Core Slabs**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

Rantanen, O., Järvisjö, S., Valovirta, I. & Vinha, J. 2023. **Cooling Demand and Indoor Temperatures of a Detached House in Southern Finland: Feasibility of a Monthly calculation Method**. Proceedings of the 13th Nordic Symposium on Building Physics, NSB 2023, Aalborg, Denmark.

2022

Silvonen, V., Salo, L., Kulmala, I., Vinha, J., Karjalainen, P. & Rönkkö, T. 2022. **Aerosol particles in a mechanically ventilated office in Helsinki, Finland—studying the infiltration of outdoor air and particle characteristics**. 11th International Aerosol Conference, IAC 2022. Athens, Greece.

Silvonen, V., Salo, L., Kulmala, I., Raunima, T., Karjalainen, P., Vinha, J., Nikka, M. & Rönkkö, T. 2022. **Characterization of indoor and outdoor particles in a mechanically ventilated office building**. Indoor Air 2022: The 17th international conference of Indoor Air Quality and Climate. Kuopio, Finland.

Salo, L., Silvonen, V., Raunima, T., Karjalainen, P., Vinha, J. & Rönkkö, T. 2022. **Measured LDSA concentrations indoors and outdoors at four schools/daycares in Finland**. Indoor Air 2022: The 17th international conference of Indoor Air Quality and Climate. Kuopio, Finland.

Huttunen, P. & Vinha, J. 2022. **Overview of a research project of novel and rapid in-situ U-value measurements**. 5th International Conference on Building Energy and Environment, COBEE 2022.

Glass, S., Kalamees, T., Pallin, S. & Vinha, J. 2022. **Water vapor generation in residential buildings: comparing probabilistic simulations and field measurements**. Proceedings Buildings XV Conference, Thermal Performance of the Exterior Envelopes of Whole Buildings. Clearwater Beach, Florida.

Kulmala, I., Silvonen, V., Salo, L., Rönkkö, T., Raunima, T. & Vinha, J. 2022. **Modelling of particle size resolved I/O ratio in an office building**. Indoor Air 2022: The 17th international conference of Indoor Air Quality and Climate. Kuopio, Finland.

Kilpikari, J., Raunima, T. & Vinha, J. 2022. **Field measurements of settled mineral fibers in public and office buildings**. Indoor Air 2022: The 17th international conference of Indoor Air Quality and Climate. Kuopio, Finland.

Silvonen, V., Salo, L., Raunima, T., Karjalainen, P., Vinha, J. & Rönkkö, T. 2022. **ISO EPM1 60 % grade type filter (F7) behavior in a building with air recirculation**. FILTECH 2022 Conference Proceedings. Cologne, Germany.

2021

Laukkarinen, A., Jokela, T., Moisio, T. & Vinha, J. 2021. **Hygrothermal simulations of timber-framed walls with air leakages**. 8th international Building Physics Conference, IBPC 2021.

Morishita-Steffen, N., Laukkarinen, A., Lewis, T., Wolny, S., Peuhkuri, R., Vinha, J. & Bednar, T. 2021. **CIB W040: International surveys considering moisture safety in buildings during design and construction**, E3S Web of Conferences, vol. 172, 17006.

2020

Laukkarinen, A., Vinha, J., Kalbe, K., Kesti, J., Kalamees, T. & Honkakoski, E. 2020. **Laboratory tests and modelling of mineral wool insulated steel sandwich panels**.

2019

Tuominen, E. & Vinha, J. 2019. **Calculation method to determine capillary properties of building materials with automatic free water intake test**, MATEC Web of Conferences, vol. 282, 02037.

Ruusala, A., Laukkarinen, A. & Vinha, J. 2019, **Comparison between calculated and billed building energy consumption values of schools and daycare centers**, MATEC Web of Conferences, vol. 282, 02085.

Tuominen, E., Tuominen, O., Vainio, M., Ruuska, T. & Vinha, J. 2019, **Thermal and moisture properties of calcium silicate insulation boards**, MATEC Web of Conferences, vol. 282, 02065.

Tuominen, E., Vinha, J. & Raunima, T. 2019, **Behavior of capacitive humidity sensors in monitoring the drying of concrete walls**, MATEC Web of Conferences, vol. 282, 02053.

Jokisalo, J., Sankelo, P., Vinha, J., Sirén, K. & Kosonen, R. 2019. **Cost optimal energy performance renovation measures in a municipal service building in a cold climate**. in CLIMA 2019 Congress: Bucharest, Romania, May 26-29, 2019. E3S Web of Conferences, vol. 111, EDP Sciences, REHVA World Congress, Bucharest, Romania, 26/05/19.

Vinha, J., Piironen, J. & Kiviste, M. 2018, **Impacts of Energy Efficient Constant Output Heating on the Moisture Conditions of Unoccupied Summer Cottages in Finland**. in Cold Climate HVAC 2018: Sustainable Buildings in Cold Climates. Springer Proceedings in Energy, Springer, pp. 79-86, Cold Climate HVAC conference, Kiruna, Sweden, 12/03/18.

2018

Marttila, T., Annala, P., Suonketo, J., Vinha, J. & Hyvärinen, A. 2018. **Updated Constructional Guidelines for Implementation of Healthy Building in Remediation in Finland**. Proceedings of the 15th Conference of the International Society of Indoor Air Quality & Climate (ISIAQ), Indoor Air 2018, Philadelphia, PA, USA, July 22–27, 2 p.

2016

Haverinen-Shaughnessy, U., Pekkonen, M., Turunen, M., Aaltonen, A. & Leivo, V. 2016. **Building energy retrofits, occupant health and wellbeing**. CIB World Building Congress 2016 Proceedings: Volume 2 Environmental Opportunities and challenges - Constructing commitment and acknowledging human experiences. Vol. 2, p. 679–687.

Du, L., Prasauskas, T., Leivo, V., Turunen, M., Kiviste, M., Martuzevicius, D. & Haverinen-Shaughnessy, U. 2016. **The effects of improved energy efficiency on indoor environmental quality in multi-family buildings**. Indoor Air 2016: The 14th international conference of Indoor Air Quality and Climate Ghent, Belgium July 3–8 2016. 737.

Leivo, V., Aaltonen, A., Turunen, M., Du, L., Kiviste, M. & Haverinen-Shaughnessy, U. 2016. **Ventilation rates and CO₂-levels before and after energy retrofit in Finnish apartment buildings**. CLIMA 2016 - Proceedings of the 12th REHVA World Congress. Aalborg. Aalborg University. Department of Civil Engineering: Volume 1. 192. Building Retrofit.

Leivo, V., Turunen, M., Aaltonen, A., Kiviste, M. & Haverinen-Shaughnessy, U. 2016. **Ventilation rates before and after energy retrofit in multi-family buildings in Finland.** Indoor Air 2016: The 14th international conference of Indoor Air Quality and Climate. Ghent, Belgium, July 3–8 2016. 764

2015

Du, L., Leivo, V., Kiviste, M., Martuzevicius, D., Turunen, M., Prasauskas, T. & Haverinen-Shaughnessy, U. 2015. **Development of an assesment protocol: the impact of energy retrofits on indoor environmental quality and public health in the existing building stock.** Healthy Buildings 2015 Europe HB2015. International Society for Indoor Air Quality and Climate.

Martuzevicius, D., Prasauskas, T., Du, L., Täubel, M., Leivo, V., Kiviste, M. & Haverinen-Shaughnessy, U. 2015. **Energy efficient Modernization of Housing Stock: Demonstration of Impacts on Indoor Environmental Quality in Northern Europe.** Healthy Buildings Europe HB2015. International Society for Indoor Air Quality and Climate.

Turunen, M., Leivo, V., Aaltonen, A., Pekkonen, M., Prasauskas, T., Martuzevicius, D. & Haverinen-Shaughnessy, U. 2015. **Health assesment aspect on energy efficiency renovations.** Healthy Buildings Europe HB2015. International Society of Indoor Air Quality and Climate.

Leivo, V., Aaltonen, A., Kiviste, M., Du, L., Prasauskas, T., Martuzevicius, D. & Haverinen-Shaughnessy, U. 2015. **Insulate project - building assesment as a part of assesment impacts of energy efficiency on indoor environmental quality and health.** Healthy Buildings Europe HB2015. International Society for Indoor Air Quality and Climate.

Leivo, V., Kiviste, M., Aaltonen, A., Turunen, M. & Haverinen-Shaughnessy U. 2015. **Air pressure difference between indoor and outdoor or staircase in multi-family buildings with exhaust ventilation system in Finland.** 6th International Building Physics Conference, IBPC 2015.

Du, L., Leivo, V., Prasauskas, T., Turunen, M., Kiviste, M., Martuzevicius, D. & Haverinen-Shaughnessy U. 2015. **Energy retrofits in multi-family buildings in north-east Europe: the impacts on thermal conditions.** 6th International Building Physics Conference, IBPC 2015.

2014

Leivo, V., Haverinen-Shaughnessy, U., Martuzevicius, D., Prasauskas, T., Kiviste, M., Turunen, M., Pekkonen, M. & Aaltonen, A. 2014. **Assesment protocol development: impacts of energy efficiency on indoor environmental quality in multi-family builsings**. World Sustainable Building Conference SB 14. October 28–30, 2014, Barcelona, Spain. 6 pages.

Du, L., Prasauskas, T., Leivo, V., Turunen, M., Aaltonen, A., Kiviste, M., Martuzevicius, D. & Haverinen-Shaughnessy, U. 2014. **Building Energy-efficiency Interventions in North-East Europe: Effects on Indoor Environmental Quality and Public Health**. The 13th International Conference on Indoor Air Quality and Climate (Indoor Air) 2014. July 7–12, 2014, Hong Kong: International Society for Indoor Air Quality and Climate.

Laukkarinen, A., Huttunen, P. & Vinha, J. 2014. **Evaluating the desired accuracy for mould index calculations and recommendations for crawlspace simulations**. Proceedings of the 10th Nordic Symposium on Building Physics, NSB 2014, Lund, Sweden, June 15–19, pp. 295–302.

Ojanen, T., Holopainen, R., Viitanen, H., Lehtovaara, J., Kero, P. & Vinha, J. 2014. **Methodology to ensure good indoor environment in energy efficient retrofitting**. Proceedings of the 10th Nordic Symposium on Building Physics, NSB 2014, Lund, Sweden, June 15–19, pp. 1197–1204.

Vinha, J. 2014. **New analysis method for moisture performance of envelope structures**. Proceedings of the 10th Nordic Symposium on Building Physics, NSB 2014, Lund, Sweden, June 15–19, pp. 1085–1092.

Kiviste, M. & Lindberg, R. 2014. **Application of phase change materials in building structures in Nordic climate**. 14th International Multidisciplinary Scientific Geoconference SGEM 2014. GeoConference on Nano, Bio and Green – technologies for a sustainable future. Volume II. Green Buildings Technologies and Materials. Best presentation award on section Green Design and Sustainable Architecture. (49–56) Sofia: STEF92 Technology Ltd.

2013

Huttunen, P. & Vinha, J. 2013. **Effect of natural convection on the thermal transmittance of exterior walls with air-permeable insulation**. Proceedings of Thermal Performance of the Exterior Envelopes of Whole Buildings XII, Clearwater Beach, Florida, USA, December 1–5. Session VII, 10 p.

Kiviste, M., Lindberg, R. & Leivo, V. 2013. **Effect of solar radiation on thermal performance of external wall structures based on long-term measured data**. Proceedings of the 6th international scientific conference Rural Development 2013: Innovations and Sustainability, November 28–29, 2013, Kaunas: Aleksandras Stulginskis University, Lithuania.

Martuzevicius, D., Prasauskas, T., Turunen, M., Leivo, V., Aaltonen, A., Krugly, E., Tichonovas, M., Sidaraviciute, R., Ciuzas, D., Pekkonen, M., Kiviste, M. & Haverinen-Shaughnessy, U. 2013. **Improving Energy Efficiency of Housing Stock: Demonstration of Impacts on Indoor Environmental Quality and Public Health in Northern Europe**. ASHRAE IAQ 2013: Environmental Health in Low Energy Buildings, October 15–18, 2013, Vancouver, British Columbia, Canada.

Ojanen, T., Holopainen, R., Viitanen, H., Lehtovaara, J., Kero, P. & Vinha, J. 2013. **Methodology to integrate energy efficiency, safe moisture performance and indoor environment quality in building renovation projects**. Proceedings of the 2nd Central European Symposium of Building Physics, CESBP 2013, Vienna, Austria, September 9–11, pp. 937–942.

Haverinen-Shaughnessy, U., Leivo, V., Martuzevicius, D., Kiviste, M. & Turunen, M. 2013. **Early results of a study on improving energy efficiency of housing stock, IEQ and public health in North-East Europe**. Proceedings of conference of ISEE, ISES and ISIAQ: Environment and Health: Bridging South, North, East and West, August 19–23, 2013, Basel, Switzerland.

Kiviste, M., Lindberg, R. & Leivo, V. 2013. **Improving calculations of building energy consumption based on ten year measured data**. Proceedings (volume 12) of the 12th International Scientific Conference Engineering for Rural Development. May 23–24, 2013, Jelgava, Latvia.

Kiviste, M., Leivo, V., Haverinen-Shaughnessy, U., Aaltonen, A. & Martuzevicius, D. 2013. **Sustainable Renovation in Urban Environment: Current Situation in Finnish Case Study Buildings**. Proceedings of Conference SB13 Oulu: Sustainable Procurement in Urban Regeneration and Renovation, May 21–25, 2013, Oulu, Finland.

Turunen, M., Kiviste, M., Pekkonen, M., Leivo, V., Aaltonen, A. & Haverinen-Shaughnessy, U. 2013. **The influence of energy efficiency improvements to the indoor air quality and public health in Europe, situation of the project (In Finnish)**. Paper for Finnish Indoor Air Quality seminar, FISIAQ 2013. March 13, 2013, Helsinki, Finland. 6 pages.

2012

Prasauskas, T., Martuzevicius, D., Krugly, E., Ciuzas, D., Haverinen-Shaughnessy, U., Turunen, M., Leivo, V., Aaltonen, A. & Kiviste, M. 2012. **Variations of PM concentrations in Lithuanian multifamily buildings: Preliminary results from INSULAtE study**. Poster presentation in European Aerosol Conference 2012. September 2–7, 2012. Granada, Spain.

Haverinen-Shaughnessy, U., Turunen, M., Leivo, V. & Martuzevicius, D. 2012. **Assessment of Impacts of Improving Energy Efficiency on Indoor Environmental Quality and Public Health in Europe: the INSULAtE protocol**. HB2012 Healthy Buildings conference, 8–12 July, Brisbane, Australia.

Leivo, V., Aaltonen, A., Turunen, M., Pekkonen, M., Haverinen-Shaughnessy, U. & Kiviste, M. 2012. **The influence of improved energy efficiency to the indoor air quality and public health in Europe (In Finnish)**. Paper for Finnish Indoor Air Quality seminar, FISIAQ 2012. March 14, 2012, Espoo, Finland. 5 pages.

2011

Martuzevicius, D., Prasauskas T., Turunen M., Krugly E., Seduikyte L., Täubel M., Leivo V. & Haverinen-Shaughnessy, U. 2011. **Assessment of PM Levels in the Process of Energy Efficiency Improvement of Apartment Buildings: Measurement Approach in INSULAtE Project**. NOSA2011 conference, 9–11 November. Tampere.

Leivo, V., Turunen, M., Prasauskas, T., Pekkonen, M., Martuzevicius, D., Aaltonen, A., Haverinen-Shaughnessy, U. & Kiviste, M. 2011. **Assessment of Improving Energy Efficiency of Buildings: Impacts on Indoor Environmental Quality and Public Health in Europe**. Proceedings of the SB11: World Sustainable Building Conference, October 18–21, 2011, Helsinki, Finland. 9 pages.

Aaltonen, A., Lähdesmäki, K. & Vinha, J. 2011. **Air tightness of structural elements and internal air leakages in a multi-apartment building**. Proceedings of the 9th Nordic Symposium on Building Physics, NSB 2011, Tampere, Finland, May 29–June 2, Vol. 1, pp. 79–86.

Laukkarinen, A. & Vinha, J. 2011. **Comparison of calculated and measured values of wall assembly tests using Delphin 5**. Proceedings of the 9th Nordic Symposium on Building Physics, NSB 2011, Tampere, Finland, May 29–June 2, Vol. 1, pp. 155–162.

Lähdesmäki, K., Salminen, K., Vinha, J., Viitanen, H., Ojanen, T. & Peuhkuri, R. 2011. **Mould growth on building materials in laboratory and field experiments**. Proceedings of the 9th

Nordic Symposium on Building Physics, NSB 2011, Tampere, Finland, May 29–June 2, Vol. 2, pp. 859–866.

Manelius, E. & Vinha, J. 2011. **The effect of leakage through the sealant in the cup test method**. Proceedings of the 9th Nordic Symposium on Building Physics, NSB 2011, Tampere, Finland, May 29–June 2, Vol. 2, pp. 601–608.

Ojanen, T., Peuhkuri, R., Viitanen, H., Lähdesmäki, K., Vinha, J. & Salminen, K. 2011. **Classification of material sensitivity – New approach for mould growth modelling**. Proceedings of the 9th Nordic Symposium on Building Physics, NSB 2011, Tampere, Finland, May 29–June 2, Vol. 2, pp. 867–874.

Viitanen, H., Vinha, J. et al. & Peuhkuri 2011. **Mould growth modeling of building structures using sensitivity classes of materials**. Proceedings of 12th International Conference on Building Materials and Components, Porto, Portugal, April 12–15. Session II-B, 10 p.

2010

Ojanen, T., Viitanen, H., Peuhkuri, R., Lähdesmäki, K., Vinha, J. & Salminen, K. 2010. **Mould growth modeling of building structures using sensitivity classes of materials**. Proceedings of Thermal Performance of the Exterior Envelopes of Whole Buildings XI International Conference, Buildings XI, Clearwater Beach, Florida, USA, December 5–9. Session II-B, 10 p.

Järnström, H., Lähdesmäki, K., Vinha, J., Puolakka, M., Halonen, L., Viitanen, H., Tuomaala, P. & Holopainen, R. 2010. **A concept for ensuring high indoor environment quality and structure moisture performance in energy efficiency renovations**. Proceedings of Sustainable Community – buildingSMART, SB10 Finland, Helsinki, September 22–24, pp. 66–67.

Vinha, J., Korpi, M., Salminen, K. & Kurnitski, J. 2010. **Air tightness of residential buildings in Finland**. Proceedings of International Conference on Building Envelope Systems and Technologies, ICBEST 2010, Vancouver, Canada, Vol. 2, pp. 279–280.

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Eskola, L., Kurnitski, J. & Vinha, J. 2008. **Air change rate in Finnish houses and apartments**. Proceedings of the 11th International Conference on Indoor Air Quality and Climate, Indoor Air 2008, Copenhagen, Denmark, August 17–22, paper ID 958, 7 p.

Kalamees, T., Kurnitski, J., Keto, M., Eskola, L., Jokisalo, J., Korpi, M. & Vinha, J. 2008. **Indoor temperature and humidity conditions in Finnish dwellings**. Proceedings of the 11th International Conference on Indoor Air Quality and Climate.

Aho, H., Vinha, J. & Korpi, M. 2008. **Implementation of airtight constructions and joints in residential buildings**. Proceedings of the 8th Symposium on Building Physics in the Nordic Countries.

Kalamees, T., Korpi, M., Eskola, L., Kurnitski, J. & Vinha, J. 2008. **The distribution of the air leakage places and thermal bridges in Finnish detached houses and apartment buildings**. Proceedings of the 8th Symposium on Building Physics in the Nordic Countries.

Korpi, M., Kalamees, T., Vinha, J. & Kurnitski, J. 2008. **The influence of exterior walls on the level and stability of indoor humidity and temperature in detached houses**. Proceedings of the 8th Symposium on Building Physics in the Nordic Countries.

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Lähdesmäki, K., Vinha, J., Viitanen, H., Salminen, K., Peuhkuri, R., Ojanen, T., Paajanen, L., Iitti, H. & Strander, T. 2008. **Development of an improved model for mould growth: Laboratory and field experiments**. Proceedings of the 8th Symposium on Building Physics in the Nordic Countries.

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Vinha, J. 2008. **Analysis method to determine sufficient water vapour retarder to timber-framed walls**. Proceedings of the 8th Symposium on Building Physics in the Nordic Countries.

Viitanen, H., Vinha, J., Salminen, K., Ojanen, T., Peuhkuri, R., Paajanen, L. & Lähdesmäki, K. 2008. **Moisture and biodeterioration risk of building materials and structures**. BEST 1 Conference Building Enclosure Science & Technology, June 10–12, 2008 Minneapolis, USA

2007

Kalamees, T., Kurnitski, J., Vinha, J. & Korpi, M. 2007. **Indoor climate conditions in lightweight detached houses in cold climate**. Proceedings of IAQVEC 2007, The Sixth International Conference on Indoor Air Quality, Ventilation & Energy Conservation in Buildings, Sustainable Built Environment, Sendai, Japan, October 28–31, 2007.

Eskola, L., Kurnitski, J., Jokisalo, J., Jokiranta, K., Palonen, J. & Vinha, J. 2007. **Room airflow rates in Finnish houses**. Proceedings of Clima 2007 WellBeing Indoors, 10–14 June, Helsinki, Finland.

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Leivo V. & Rantala J. 2006. **Heat flow into the ground from the heated slab-on-ground structure – field measurements**. Research in Building Physics and Building Engineering, Proceedings of the Third International Building Physics Conference, Montreal, Canada, pp. 497–500.

Leivo V. & Rantala J. 2006. **Microbiological Growth beneath Slab-on-ground Structures**. Healthy Buildings 2006. Proceedings, Vol II, pp. 349–352. ISIAQ. Lisbon, Portugal.

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Leivo, V. & Rantala J. 2005. **Heat Losses from a Slab-on-ground with a Low Temperature Floor Heating System in Nordic Climate**. Proceedings of the 2005 World Sustainable Building Conference, SB05. Pp. 23–30 (CD), Tokyo, Japan.

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Lindberg, R. & Leivo, V. 2005. **Building energy consumption and thermal performance of the Autoclaved Aerated Concrete (AAC) exterior walls**. Proceedings of the 4th International Conference on Autoclaved Aerated Concrete. Pp. 519–523, Kingston University, London, UK.

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Kalamees, T., Kurnitski, J. & Vinha, J. 2004. **Indoor Temperature, Humidity, and Moisture Production in Lightweight Timber-Framed Detached Houses**. Proceedings of IX international Conference on Performance of Exterior Envelopes of Whole buildings. Session IIA, 13 p. (CD), Florida, USA.

Korpi, M., Vinha, J. & Kurnitski, J. 2004. **Airtightness of Timber-Framed Houses with Different Structural Solutions**. Proceedings of IX international Conference on Performance of Exterior Envelopes of Whole buildings. Session XIB, 6 p. (CD), Florida, USA.

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2003

Rantala, J. & Leivo, V. 2003. **Moisture behavior of slab-on-ground structures**. Proceedings of the Second International Conference on Building Physics. Pp. 345–351, Antwerpen, Belgium.

Vinha, J. & Kalamees, T. 2003. **Principles to Analyse The Moisture Performance of Timber-Framed External Wall Assembly Due to Diffusion**. Proceedings of the Ninth Conference on Building Science and Technology, Design and Construction of Durable Building Envelopes. Pp. 123–140, Vancouver, Canada.

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Käkelä, P. & Vinha, J. 2002. **Outdoor Field Test of Timber-Framed External Wall Element Structure**. Proceedings of the 6th Symposium on Building Physics in the Nordic Countries. Vol. 2, pp. 843–849, Trondheim, Norway.

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