

An improved design models for fire ex-posed CLT floor elements

Schmid, Joachim; Klippel, Michael; Frangi, Andrea; **Just, Alar**; **Tiso, Mattia**; Werther, Norman Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 72-73 : ill https://www.ester.ee/record=b5197207*est

Analysis of fires in buildings in Estonia

Jalas, Raido; **Just, Alar** Bio-based Building Products and Fire Safe Design of Buildings - Recent Developments : book of abstracts 2015 / p. 105-106 : ill <https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/costfp1404-dam/documents/N076-05-Book-of-abstracts-meeting-in-BCN.pdf>

Analysis of fires in buildings in Estonia

Jalas, Raido; **Just, Alar** Proceedings of the 1st European Workshop Fire Safety of Green Buildings : Berlin, Germany, 6-7 October 2015 / p. 123-125 : ill

Assessment of fire-retardant treatments and their impact on the fire performance and bonding properties of aspen and silver birch veneers

Alao, Percy Festus; Olusoji, Adekunle; **Kallakas, Heikko**; **Just, Alar**; **Kers, Jaan** European journal of wood and wood products 2025 / art. 66 <https://doi.org/10.1007/s00107-025-02223-1>

Assessment of strength and stiffness properties of aged structural timber

Kauniste, Maarja; **Just, Alar**; **Tuhkanen, Eero** 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 170-171 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17>
https://www.ester.ee/record=b5668645*est

Assessment on strength and stiffness properties of aged structural timber

Kauniste, Maarja; **Just, Alar**; **Tuhkanen, Eero**; **Kalamees, Targo** Journal of sustainable architecture and civil engineering 2024 / p. 62-74 <https://doi.org/10.5755/j01.sace.34.1.35534> [Journal metrics at Scopus](#) [Article at Scopus](#)

Behavior of wooden based insulations at high temperatures

Tiso, Mattia; **Just, Alar**; **Mäger, Katrin Nele** Energy procedia 2016 / p. 729-737 : ill <https://doi.org/10.1016/j.egypro.2016.09.135>
[Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Behaviour of cavity barriers in modular houses - a revised test methodology [Electronic resource]

Brandon, Daniel; **Just, Alar**; Jansson McNamee, Robert 14th International Conference and Exhibition on Fire Science and Engineering : Interflam 2016 : Windsor, UK, 4-6 July 2016 : conference proceedings 2016 / p. 623-628. [USB]

Behaviour of glulam-steel roof structures for sporthall

Just, Elmar-Jaan; **Just, Alar**; **Öiger, Karl** Proceedings of Pacific Timber Engineering Conference : 14-18 March 1999 : Rotorua, New Zealand. Vol. 3 1999 / p. 174-179: ill

Behaviour of insulation materials in timber frame assemblies exposed to fire [Online resource]

Tiso, Mattia; **Just, Alar** WCTE 2016 : World Conference on Timber Engineering : August 22-25, 2016, Vienna, Austria : e-book, full papers 2016 / p. 3884-3891 : ill <http://shop.tuverlag.at/de/the-world-conference-on-timber-engineering>

Brandteknisk dimensionering av lätta träregelkonstruktioner enligt Eurokod 5

Just, Alar; Schmid, Joachim Bygg & teknik 2011 / p. 15-18 : ill

Charring performance of timber structures protected by traditional lime-based plasters

Liblik, Johanna; **Nurk, Meeri**; **Just, Alar** Construction and building materials 2022 / art. 128572
<https://doi.org/10.1016/j.conbuildmat.2022.128572> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Clay and lime plaster as fire protection for timber structures

Liblik, Johanna; **Just, Alar** INTER Proceedings - Meeting 56 : proceedings of the International Network on Timber Engineering Research 2023 https://books.google.ee/books/about/International_Network_on_Timber_Engineer.html?id=7nFe0AEACAAJ&hl=en&output=html_text&redir_esc=y

CLT compartment fire test

Just, Alar; Brandon, Daniel; **Mäger, Katrin Nele**; Pukk, Rait WCTE 2018 - World Conference on Timber Engineering 2018 [CLT...](#)

CLT protected by gypsum boards : design models

Just, Alar; **Mäger, Katrin Nele**; **Kraudok, Kairit** Fire design models for Europe : expert meeting 2018 / p. 62-74 : ill [Expert meeting...](#)

Comparison of test results and the Reduced Cross-Section Method using a zero-strength layer

Schmid, Joachim; Klippel, Michael; **Just, Alar**; Brandon, Daniel Proceedings of the 1st European Workshop Fire Safety of Green Buildings : Berlin, Germany, 6-7 October 2015 / p. 51-53 : ill

Comparison of the fire resistance of timber members in tests and calculation models

Schmid, Joachim; Klippel, Michael; **Just, Alar**; Frangi, Andrea CIB-W18 2013, International Council for Research and Innovation in Building and Construction, Working Commission W18 - Timber Structures, Meeting 46, 26-29 August 2013 2013
https://www.researchgate.net/publication/326804697_Comparison_of_the_fire_resistance_of_timber_members_in_tests_and_calculation_models

Cross-laminated timber : Standard fire design model : expert meeting [Online resource]

2017 <https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/costfp1404-dam/documents/2018/N234-02-ProceedingsExpertMeetingKoeschingWG2TG1.pdf>

Design criteria for insulation materials applied in timber frame assemblies

Tiso, Mattia; Just, Alar Journal of Structural Fire Engineering 2018 / p. 252 - 263 <https://doi.org/10.1108/JSFE-01-2017-0015> [Journal metrics at Scopus](#) [Article at Scopus](#)

Design methods for wood-based I-joists exposed to fire - State-of-the-art and improvements

Mäger, Katrin Nele; Just, Alar 15th International Interflam Conference : Interflam 2019, 1-3 July, 2019 : Programme 2019 / p. 1343-1354 <http://www.intersciencecomms.co.uk/html/conferences/Interflam/if19/Interflam%202019%20Table%20of%20Contents.pdf>

Design model for wood I-joists in wall assemblies exposed to fire

Schmid, Joachim; **Just, Alar** Structures in Fire : SiF2012 : proceedings of the 7th International Conference on Structures in Fire, Zurich, Switzerland, 6-8 June 2012 2012 / p. 357-366 : ill

Design of separating function - state of the art

Just, Alar; Tiso, Mattia; Fragiocomo, Massimo Proceedings of the 1st European Workshop Fire Safety of Green Buildings : Berlin, Germany, 6-7 October 2015 2015 / p. 62-64

Design parameters for timber members protected by clay plaster at elevated temperatures

Liblik, Johanna; Just, Alar International Network on Timber Engineering Research : INTER : Meeting 50, 28-31 August 2017, Kyoto, Japan : proceedings 2017 / p. 375-389 : ill

Determination of design fires in compartments with combustible structure – modification of existing design equations

Schmid, Joachim; Fahrni, Reto; Frangi, Andrea; Werther, Norman; Brandon, Daniël; **Just, Alar** Proceedings : meeting 52 : 26-29 August 2019, Tacoma WA, USA 2020 / p. 509-511 <https://doi.org/10.3929/ethz-b-000396127>

Development of fire design models for timber frame assemblies. State of the art AD2018

Just, Alar Timber : bonds, connections and structures : commemorative publication honoring Simon Aicher on the occasion of his 65th birthday 2018 / p. 317-330

Durability of old wooden structures in Estonia

Kallavus, Urve; Öiger, Karl; Just, Alar Proceedings of Pacific Timber Engineering Conference : 14-18 March 1999 : Rotorua, New Zealand. Vol. 3 1999 / p. 488-492: ill

Eesti eluasemefondi puitkorterelamute ehitustehniline seisukord ning prognoositav eluiga : uuringu lõpparuanne

Kalamees, Targo; Arumägi, Endrik; Just, Alar; Kallavus, Urve; Mikli, Lauri; Thalfeldt, Marko; Klõšeiko, Paul; Agasild, Tõnis; Liho, Eva; Haug, Priit; Tuurmann, Kristo; Liias, Roode; **Öiger, Karl**; Langepröon, Priit; Orro, Oliver; Välja, Leele; Suits, Maris; **Kodi, Georg**; Ilomets, Simo; Alev, Üllar; Kurik, Lembit 2011 http://www.ester.ee/record=b2720728*est

Effect of hemp fiber surface treatment on the moisture/water resistance and reaction to fire of reinforced PLA composites

Alao, Percy Festus; Marrot, Laetitia; **Kallakas, Heikko; Just, Alar; Poltimäe, Triinu; Kers, Jaan** Materials 2021 / art. 4332, 17 p. : ill <https://doi.org/10.3390/ma14154332> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Effect of mineral wool insulations on charring of timber members

Just, Alar; Schmid, Joachim WCTE : World Conference on Timber Engineering : New Zealand, Auckland, 15-19 July 2012 2012 / [7] p. : ill

Effective cross-section method for timber frame assemblies – definition of coefficients and zero-strength layers

Tiso, Mattia; Just, Alar; Schmid, Joachim; Klippel, Michael Book of abstracts of the final conference COST FP 1404 "Fire Safe Use of Bio-Based Building Products", Zürich, 1st and 2nd October 2018 2018 / p. 20-24 : ill [Fire Safe Use of Bio-Based Building Product](#)

Effective cross-sectional method for timber frame assemblies - definition of coefficients and zero strength layers

Tiso, Mattia; Just, Alar; Schmid, Joachim; Klippel, Michael Fire and materials 2018 / p. 897-913 : ill <https://doi.org/10.1002/fam.2645> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The effects of timber species and adhesive type on the behavior of finger joints in tension under fire conditions

Sciomenta, Martina; **Vihmann, Jane Liise; Tuhkanen, Eero; Just, Alar**; Fragiocomo, Massimo Construction and building materials 2024 / art. 138080 <https://doi.org/10.1016/j.conbuildmat.2024.138080> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Ehitusnõuete analüüs vastavalt haiglate ja hooldekodude eripäradele

Luht, Kadi; Valge, Alar; Kalamees, Targo; Just, Alar; Angelštok, Feliks 2012 https://www.ester.ee/record=b2886397*est

Esimene kaasaegne puitsild

Just, Alar Ehitaja 2001 / 7/8, lk. 34-35: ill https://artiklid.elnet.ee/record=b2011711*est

Estonia - Fire safety regulations and research

Just, Alar; Jalas, Raido Bio-based Building Products and Fire Safe Design of Buildings - Recent Developments : book of abstracts 2015 / p. 9-10 <https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/costfp1404-dam/documents/N076-05-Book-of-abstracts-meeting-in-BCN.pdf>

Eurocode 5 – 2nd generation – fire design

Just, Alar; Frangi, Andrea; Hakkarainen, Jouni; Schmid, Joachim; Werther, Norman; Krenn, Harald; Blondeau, Renaud 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings 2024 / p. 64-73 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17> https://www.ester.ee/record=b5668645*est

Eurokoodeks 5 [Võrguteavik] : puitkonstruktsioonide projekteerimine. Osa 1-1, Üldist ; Üldreeglid ja reeglid hoonete projekteerimiseks = Eurocode 5 : design of timber structures. Part 1-1, General ; Common rules and rules for buildings 2015

Eurokoodeks 5, Puitkonstruktsioonide projekteerimine

2005 https://www.ester.ee/record=b2103316*est

Eurokoodeks 5, Puitkonstruktsioonide projekteerimine

2007 https://www.ester.ee/record=b2334034*est

Eurokoodeks 5: Puitkonstruktsioonide projekteerimine

Õiger, Karl; Just, Elmar-Jaan; Just, Alar 2007 https://www.ester.ee/record=b2335305*est

Eurokoodeks 5: Puitkonstruktsioonide projekteerimine

Just, Alar; Õiger, Karl 2007 https://www.ester.ee/record=b2332141*est

Eurokoodeks 5: Puitkonstruktsioonide projekteerimine

Õiger, Karl; Just, Elmar-Jaan; Just, Alar 2006 https://www.ester.ee/record=b2229119*est

Evaluation of zero-strength layer depths for timber members of floor assemblies with heat resistant cavity insulations

Tiso, Mattia; Just, Alar; Schmid, Joachim; Mäger, Katrin Nele; Klippel, Michael Fire safety journal 2019 / p. 137-148 : ill <https://doi.org/10.1016/j.firesaf.2019.01.001> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Evaluation of the Component Additive Method until 90 minutes fire exposure

Rauch, Michael; Morelli, Maria Flavia; Wearther, Norman; Just, Alar Book of abstracts of the final conference COST FP 1404 "Fire Safe Use of Bio-Based Building Products", Zürich, 1st and 2nd October 2018 2018 / p. 87-90 : ill [Fire Safe Use of Bio-Based Building Product](#)

Execution of timber structures and fire [Online resource]

Just, Alar; Brandon, Daniel; Noren, Joakim WCTE 2016 : World Conference on Timber Engineering : August 22-25, 2016, Vienna, Austria : e-book, full papers 2016 / p. 5555-5562 : ill <http://shop.tuverlag.at/de/the-world-conference-on-timber-engineering>

Experimental analysis of cross-laminated timber rib panels at normal temperature and in fire

Kleinhenz, Miriam; Just, Alar; Frangi, Andrea Engineering structures 2021 / art. 113091, 14 p. : ill <https://doi.org/10.1016/j.engstruct.2021.113091> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Experimental and analytical studies of cable-stayed timber bridge

Just, Alar IABSE Conference Seoul 2001 : Cable-Supported Bridges - Challenging Technical Limits 2001 / p. 146-147 : ill

Experimental and theoretical analysis of reinforced glulam beams

Õiger, Karl; Just, Elmar-Jaan; Just, Alar IABSE Conference Lahti 2001 : Innovative Wooden Structures and Bridges : report 2001 / p. 343-348 : ill

Experimental investigation of cable-stayed timber bridge

Just, Alar; Just, Elmar-Jaan; Pousette, A.; Õiger, Karl Proceedings of World Conference on Timber Engineering : Whistler, Canada 2000 / [8] lk. [CD-ROM]

Experimental study of the charring of I-joists and recession of combustible insulation in light timber frame assemblies

with comparison to Eurocode 5

Bøe, Andreas Sæter; **Mäger, Katrin Nele**; Friquin, Kathinka Leikanger; **Just, Alar** Fire Technology 2023 / p. 3283 - 3325
<https://doi.org/10.1007/s10694-023-01464-x> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Failure times of gypsum boards

Just, Alar; Schmid, Joachim; König, J. Structures in Fire : proceedings of the 6th International Conference (SiF'10) : June 2-4, 2010, East Lansing, MI 2010 / p. 593-601

Failure times of gypsum plasterboards

Just, Alar; Schmid, Joachim; König, J. Interflam 2010 : proceedings of the twelfth international conference : 5-7th July 2010, Nottingham, UK, Volume 2 2010 / p. 1695-1700

Fall-off times of gypsum boards

Kraudok, Kairit; **Mäger, Katrin Nele**; **Just, Alar** Book of abstracts of the final conference COST FP 1404 "Fire Safe Use of Bio-Based Building Products", Zürich, 1st and 2nd October 2018 2018 / p. 83-86 : ill [Fire Safe Use of Bio-Based Building Product](#)

Fiber-reinforced plywood: Increased performance with less raw material

Saal, Kristjan; **Kallakas, Heikko**; **Tuhkanen, Eero**; **Just, Alar**; **Rohumaa, Anti**; **Kers, Jaan**; **Kalamees, Targo**; **Lõhmus, Rünno** Materials 2024 / art. 3218 <https://doi.org/10.3390/ma17133218> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings

2024 <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17> https://www.ester.ee/record=b5668645*est

Fire and mechanical properties of hemp and clay boards for timber structures

Kallakas, Heikko; **Liblik, Johanna**; **Alao, Percy Festus**; **Poltimäe, Triinu**; **Just, Alar**; **Kers, Jaan** IOP conference series : earth and environmental science Central Europe towards Sustainable Building (CESB19) 2-4 July 2019, Prague, Czech Republic 2019 / art. 012019, 8 p. : ill <https://doi.org/10.1088/1755-1315/290/1/012019> [Conference proceedings at Scopus](#) [Article at Scopus](#)

Fire design model for timber frame assemblies with rectangular and I-shaped members

Mäger, Katrin Nele; **Tiso, Mattia**; **Just, Alar** Wood & Fire Safety : proceedings of the 9th International Conference on Wood & Fire Safety 2020 2020 / p. 268-274 https://doi.org/10.1007/978-3-030-41235-7_40

Fire design of CLT in Europe

Östman, Birgit; Schmid, Joachim; Klippel, Michael; **Just, Alar**; Werther, Norman; Brandon, Daniel Wood and Fiber Science 2018 / p. 68-82 <https://doi.org/10.22382/wfs-2018-041> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fire design of cross-laminated timber and glulam rib panels

Kleinhenz, Miriam; **Just, Alar**; Frangi, Andrea Proceedings of the III Forum Wood Building Baltic, Riga Technical University, 09-10.05, 2022, Riga, Latvia 2022 / p. 32-33 <https://forumwoodbuilding.rtu.lv/wp-content/uploads/sites/37/2022/05/FWBB2022-2022.05.09-speakers-day-1-and-2.pdf>

Fire design of I-joists in wall assemblies

Mäger, Katrin Nele; **Just, Alar** Proceedings of the II Forum Wood Building Baltic 2021 / p. 72-73 <https://issuu.com/fwbb/docs/fwbb2021>

Fire design of initially protected CLT

Mäger, Katrin Nele; **Kraudok, Kairit**; **Liblik, Johanna**; **Just, Alar** Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 76-77 : ill https://www.ester.ee/record=b5197207*est

Fire design of timber frame assemblies - a proposal for the next revision of EN 1995-1-2

Tiso, Mattia; **Just, Alar** Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 78-79 : ill https://www.ester.ee/record=b5197207*est

Fire dynamics in timber structures - extending the current design limits for future timber buildings : final report of the TimFix-project (pre-project)

Schmid, Joachim; Brandon, Daniël; **Just, Alar**; Werther, Norman 2022 <https://doi.org/10.3929/ethz-b-000571321>

Fire performance of CLT – a task group report of COST Action FP1404

Klippel, Michael; Schmid, Joachim; Werther, Norman; **Just, Alar** Fire performance of CLT – A Task Group Report of COST Action FP1404 2018 / p. 65-71 [Fire Safe Use of Bio-Based Building Product](#)

Fire protection abilities provided by gypsum plasterboards

Just, Alar; Schmid, Joachim; Östman, Birgit WCTE : World Conference on Timber Engineering : New Zealand, Auckland, 15-19 July 2012 2012 / [5] p. : ill <https://www.diva-portal.org/smash/get/diva2:962547/FULLTEXT01.pdf>

Fire protection by mineral wool for timber frame assemblies

Just, Alar; Schmid, Joachim Structures in Fire : SiF2012 : proceedings of the 7th International Conference on Structures in Fire, Zurich, Switzerland, 6-8 June 2012 / p. 337-346 : ill

Fire protection provided by clay and lime plasters

Liblik, Johanna; Küppers, Judith; Maaten, Birgit; Just, Alar Wood Material Science & Engineering 2021 / p. 290-298

<https://doi.org/10.1080/17480272.2020.1714726> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fire protection provided by clay and lime plasters : [conference paper]

Liblik, Johanna; Küppers, Judith; Maaten, Birgit; Just, Alar Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn] 2019 / p. 84-85 : ill https://www.ester.ee/record=b5197207*est

Fire protection provided by insulation materials - a new design approach for timber frame assemblies

Tiso, Mattia; Just, Alar Structural engineering international 2017 / p. 231-237 <https://doi.org/10.2749/101686617X14881932435899>

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

Fire resistance of timber frame assemblies with cavities partially filled by insulation materials [Online resource]

Tiso, Mattia; Just, Alar Structures in Fire, SiF'2018 : 10th International Conference on Structures in Fire 2018 / p. 233-240 : ill

<http://www.structuresinfire.com/corpo/conferences/sif18.pdf>

Fire safety in timber buildings

Buchanan, Andrew; Dunn, Andrew; **Just, Alar**; Klippel, Michael; Maluk, Christian; Östman, Birgit; Wade, Colleen Fire safe use of wood in buildings : global design guide 2022 / p. 33-62 : ill <https://doi.org/10.1201/9781003190318-2>

Fire safety of historic timber buildings with traditional plasters in Europe

Liblik, Johanna; Küppers, Judith; Just, Alar WCTE 2018 - World Conference on Timber Engineering 2018 [Fire safety...](#)

Fire separating function of wood-based materials

Mäger, Katrin Nele; Werther, Norman; **Just, Alar**; Frangi, Andrea Book of abstracts of the final conference COST FP 1404 "Fire Safe Use of Bio-Based Building Products", Zürich, 1st and 2nd October 2018 2018 / p. 31-35 : ill [Fire Safe Use of Bio-Based Building Product](#)

Fire tests on glued-laminated timber beams with specific local material properties

Fahmi, Reto; Klippel, Michael; **Just, Alar**; Olinoc, A.; Frangi, Andrea Fire safety journal 2019 / p. 161-169 : ill

<https://doi.org/10.1016/j.firesaf.2017.11.003> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Fire-separating assemblies

Werther, Norman; Dagenais, Christian; **Just, Alar**; Wade, Colleen Fire safe use of wood in buildings : global design guide 2022 / p. 193-226 : ill <https://doi.org/10.1201/9781003190318-6>

Full-scale fire tests of timber frame walls : test report

Just, Alar 2009 https://www.ester.ee/record=b2565179*est

Gardemoeni lennujaam

Just, Alar Ehitaja 1999 / 1/2, lk. 16-17: ill https://artiklid.elnet.ee/record=b1000255*est

Guidance Documents for Fire Design of Timber Structures produced in WG2 of COST ACTION FP 1404

Klippel, Michael; **Just, Alar** Book of abstracts of the final conference COST FP 1404 "Fire Safe Use of Bio-Based Building Products", Zürich, 1st and 2nd October 2018 2018 / p. 57-59 [Fire Safe Use of Bio-Based Building Product](#)

Guidance for implementation of materials and products in fire design methods of timber frame assemblies : COST Action FP1404 : Version 1

2018 [Guidance for implementation...](#)

Guidance on Fire design of CLT including best practise, COST Action FP1404 : version 2018 [Online resource]

2018 [Guidance on Fire design of CLT including best practise](#)

Gypsum plasterboards and gypsum fibreboards – protective times for fire safety design of timber structures

Just, Alar; Schmid, Joachim; König, J. CIB W18 meeting 44, Alghero, 31.08-2.9.2011, Karlsruhe, Germany 2011

Idrottshallen i Tallinn

Just, Elmar-Jaan; Just, Alar Träinformation 1996 / November, s. 17: ill

An improved design model for fire exposed cross laminated timber

Schmid, Joachim; Klippel, Michael; Frangi, Andrea; **Just, Alar**; **Tiso, Mattia** International Network on Timber Engineering Research : INTER : Meeting 50, 28-31 August 2017, Kyoto, Japan : proceedings 2017 / p. 475-477 : ill

Improved fire design model for cross-laminated timber and glulam

Just, Alar; Nurk, Jane Liise; Mäger, Katrin Nele 2022 <https://www.diva-portal.org/smash/get/diva2:1711855/FULLTEXT01.pdf>

Improved fire design models for timber frame assemblies - guidance document COST Action FP1404 : version 1

2018 [Improved fire design models...](#)

Improvements to the component additive method

Mäger, Katrin Nele; Just, Alar; Frangi, Andrea Structures in Fire, SiF'2018 : 10th International Conference on Structures in Fire 2018 / p. 283-290 : ill <http://www.structuresinfire.com/corpo/conferences/sif18.pdf>

Influence of adhesives on fire resistance of wooden i-joists

Mäger, Katrin Nele; Just, Alar; Sterley, Magdalena; Olofsson, Robert World Conference on Timber Engineering 2021, WCTE 2021 2021 / p. 1172–1179 <http://www.diva-portal.org/smash/record.jsf?pid=diva2%3A1623381&dswid=-1253>

Investigation of timber bridges

Just, Alar Forum Holz Bau Garmisch 17 : 23. Internationales Holzbau-Forum (IHf 2017) : aus der Praxis - für die Praxis : Kongresszentrum, Garmisch-Partenkirchen ; B. 2 2017 / p. 293-304 <http://www.gbv.de/dms/tib-ub-hannover/1014402786.pdf>

Kahekordse puitmaja süütamiskatse aitab eelarvamusi hajutada

Ehitaja 2017 / lk. 44-45 : fot http://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2829425*est

Liimpuit. Teostusnõuded ja põhilised tootmisnõuded

Just, Alar; Soonurm, Enno 2002 https://www.ester.ee/record=b1711640*est

Load-bearing timber structures

Just, Alar; Abu, Anthony; Barber, David; Dagenais, Christian; Klippel, Michael; Milner, Martin Fire safe use of wood in buildings : global design guide 2022 / p. 227-276 <https://doi.org/10.1201/9781003190318-7>

Looduslik krohv aitab tagada ajalooliste puitmajade tulepüsivust

Liblik, Johanna; Just, Alar Ehitaja 2018 / lk. 42-46 : fo http://www.ester.ee/record=b1072123*est

Maaehituse alused

Grišakov, Ülle; **Just, Alar; Just, Elmar-Jaan; Luts, Vello** 1996 https://www.ester.ee/record=b1070277*est

Maaelamute sisekliima, ehitusfüüsika ja energiasääst I : uuringu I etapi lõpparuanne

Kalamees, Targo; Alev, Üllar; Arumägi, Endrik; Ilomets, Simo; Just, Alar; Kallavus, Urve 2011 http://www.ester.ee/record=b2665966*est

Massive timber protected with gypsum claddings

Just, Alar; Mäger, Katrin Nele Cross-laminated timber : Standard fire design model : expert meeting 2017 / p. 100-108 : ill <https://ethz.ch/content/dam/ethz/special-interest/baug/ibk/costfp1404-dam/documents/2018/N234-02-ProceedingsExpertMeetingKoeschingWG2TG1.pdf>

Material properties of clay and lime based plaster for structural design

Liblik, Johanna; Just, Alar; Maaten, Birgit; Sulg, M.; Pajusaar, Siim 15th International Interflam Conference : Interflam 2019, 1-3 July, 2019 : Programme 2019 / p. 1813-1824 <http://www.intersciencecomms.co.uk/html/conferences/Interflam/if19/Interflam%202019%20Table%20of%20Contents.pdf>

Material properties of clay and lime plaster for structural fire design

Liblik, Johanna; Küppers, Judith; Just, Alar; Maaten, Birgit; Pajusaar, Siim Fire and materials 2021 / p. 355-365 : ill <https://doi.org/10.1002/fam.2798> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Mechanical properties of fire damaged and bark beetle (Ips typographus) attacked Norway spruce (Picea abies) wood

Kaljula, Laura; Põdra, Mikk; Poltimäe, Triinu; Just, Alar; Kers, Jaan Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025“Baltic Polymer Symposium 2025” : Book of abstracts 2025 / p. 67 <http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Modelling the fire resistance of cross-laminated timber rib panels

Kleinhenz, Miriam; Palma, Pedro; **Just, Alar; Frangi, Andrea** Fire and Materials 2024 / P. 725 - 736 <https://doi.org/10.1002/fam.3226> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Natural fire tests on compartments with CLT

Brandon, Daniel; **Just, Alar** CLT - The way to standardization – definition of gaps : expert meeting 2017 / p. 161-177 [CLT - The way to...](#)

Parameters influencing the behaviour of timber frame assemblies exposed to fire, development of new design criteria for

insulation materials

Tiso, Mattia; Just, Alar Structures in Fire 2016 : proceedings of the Ninth International Conference 2016 / p. 659-666

Parametric fire design - zero-strength-layers and charring rates

Brandon, Daniel; **Just, Alar**; Lange, David; **Tiso, Mattia** International Network on Timber Engineering Research : INTER : Meeting 50, 28-31 August 2017, Kyoto, Japan : proceedings 2017 / p. 391-405 : ill

Performance of constructions with clay plaster and timber at elevated temperatures

Liblik, Johanna; Just, Alar Energy procedia 2016 / p. 717-728 : ill <https://doi.org/10.1016/j.egypro.2016.09.133> [Conference Proceedings at Scopus](#) [Article at Scopus](#) [Article at WOS](#)

Performance of timber structures protected by traditional plaster systems in fire = Traditsioonilise krohvisüsteemiga kaetud puitkonstruktsioonide tulepüsivus

Liblik, Johanna 2023 <https://doi.org/10.23658/taltech.23/2023> <https://digikogu.taltech.ee/et/Item/04402806-2eda-4ebe-a5bc-54d1815ec49d> https://www.ester.ee/record=b5561689*est

Post-protection behaviour of wooden wall and floor structures completely filled with glass wool

Just, Alar Structures in Fire : proceedings of the 6th International Conference (SiF'10) : June 2-4, 2010, East Lansing, MI 2010 / p. 584-592 <https://www.diva-portal.org/smash/get/diva2:962546/FULLTEXT01.pdf>

Postprotection effect of heatresistant insulations on timberframe members exposed to fire

Just, Alar; Schmid, Joachim; König, Jürgen Fire and materials 2012 / p. 153-163 : ill <https://onlinelibrary.wiley.com/doi/abs/10.1002/fam.1096>

Preliminary design model for wooden I-joists in fire

Mäger, Katrin Nele; Just, Alar Proceedings : meeting 52 : 26-29 August 2019, Tacoma WA, USA 2020 / p. 393-406 <https://d-nb.info/1201121965/04>

Preservation of historic wooden buildings with traditional surface finishes

Liblik, Johanna; Arumägi, Endrik; Just, Alar; Küppers, Judith New Horizons in the Conservation of Wooden Built Heritage 21st IWC Symposium, York 2018, 12 - 15 September 2018, York, UK 2019 / p. 150-158 : ill <https://static1.squarespace.com/static/5cad2053da50d37b4c2cfd70/t/5d06ee5635c9720001f32a5b/1560735355161/York+Proceedings+3.pdf>

Procedure for implementing new materials to the component additive method

Mäger, Katrin Nele; Just, Alar; Schmid, Joachim; Werther, Norman; Klippel, Michael; Brandon, Daniel; Frangi, Andrea Fire safety journal 2019 / p. 149-160 : ill <https://doi.org/10.1016/j.firesaf.2017.09.006> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Proceedings of the I Forum Wood Building Baltic, 2019 : [27.02-1.03.2019, Tallinn]

Kalamees, Targo; Just, Alar; Semjonov, Meeli; Teder, Anu; Deemant, Merili 2019 https://www.ester.ee/record=b5197207*est

Professor Alar Just: peame õppima puitu optimaalsemalt kasutama

Just, Alar ehitusleht.ee 2025 <https://ehitusleht.ee/professor-alar-just-peame-oppima-puitu-optimaalsemalt-kasutama/>

Properties of clay plaster for the fire design of timber structures

Liblik, Johanna; Just, Alar; Küppers, Judith LEHM 2020 Tagungsbeiträge der 8. Internationalen Fachtagung für Lehm-bau =8th International Conference on Building with Earth, 30. Oktober – 1. November 2020 : Online 2020 / 10 p. : ill https://www.dachverband-lehm.de/lehm2020_online/pdf/lehm2020_b_liblik-just-kueppers_en.pdf

Protection by fire rated claddings in the Component Additive Method

Mäger, Katrin Nele; Just, Alar; Frangi, Andrea; Brandon, Daniel International Network on Timber Engineering Research : INTER : Meeting 50, 28-31 August 2017, Kyoto, Japan : proceedings 2017 / p. 439-451 : ill

Protection by gypsum plasterboards - state of the art

Just, Alar; Kraudok, Kairit; Schmid, Joachim; Östman, Birgit Proceedings of the 1st European Workshop Fire Safety of Green Buildings : Berlin, Germany, 6-7 October 2015 2015 / p. 107-110 : ill

Protective effect of clay plaster for the fire design of timber constructions [Electronic resource]

Liblik, Johanna; Just, Alar REHAB 2015 : Proceedings of the 2nd International Conference on Preservation, Maintenance and Rehabilitation of Historical Buildings and Structures : Porto, Portugal, 22-24 July. Volume 1 2015 / p. 745-754

Puit- ja puidupõhised konstruktsioonid : õpik kõrgkoolidele

Just, Elmar-Jaan; Õiger, Karl; Just, Alar 2015 https://www.ester.ee/record=b4535150*est

Puit- ja puidupõhised konstruktsioonid : õpik kõrgkoolidele

Just, Elmar-Jaan; Õiger, Karl; Just, Alar 2018 https://www.ester.ee/record=b5159583*est

Puit- ja puidupõhiste konstruktsioonide uurimine ning arendamine TTÜ-s

Just, Alar; Just, Elmar-Jaan 100 aastat TTÜ ehitusinsenere 2018 / lk. 288-292 : fot

Puit on turvaline, kuna teame, kuidas see põleb

Vilk, Urve Äripäev 2020 / Lk. 25-26 <https://dea.digar.ee/article/apehitus/2020/10/29/21.1>

Puit päevakorral kogu maailmas

Just, Alar Ehitaja 1999 / 6, lk. 5-8: ill https://artiklid.elnet.ee/record=b1001239*est

Puitkonstruktsioonid

Õiger, Karl; Just, Alar; Just, Elmar-Jaan 2003 https://www.ester.ee/record=b1799331*est

Puitkonstruktsioonid

Just, Alar; Just, Elmar-Jaan; Õiger, Karl 2003 https://www.ester.ee/record=b1822148*est

Puitkonstruktsioonid

Pukk, Otto; Peipman, Tõnu; **Just, Elmar-Jaan; Just, Alar; Õiger, Karl** Ehituskonstruktori käsiraamat 2012 / lk. 503-548 : ill

Puitkonstruktsioonid. Osa 1.2, Tulepüsivus : Eesti projekteerimismid, EPN 5.1.2

Just, Alar; Just, Elmar-Jaan; Õiger, Karl ET-kartoteek : Eesti ehitusteave. ET-1 2001 / ET-1 0113-0361, 16 lk

Puitkonstruktsioonid. Osa 2, Puitsillad : Eesti projekteerimismid, EPN-ENV 5.2 : (eelnoü) : välja antud juuni 1998

Õiger, Karl; Just, Alar ET-kartoteek : Eesti ehitusteave. ET-1 1998 / ET-1 0113-0236, 15 lk

Puitmajade uus ajastu

Vaaks, Eveliis Trialoog 2025 <https://trialoog.taltech.ee/puitmajade-uus-ajastu/>

Puitsildade kaitseks

Just, Alar Ehitaja 1998 / lk. 70-71 : ill https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2003543*est

Puitsildade võimalused

Just, Alar Ehituskaar 1999 / 5/6, lk. 18-23

Reconnect Ukraine – research project on timber connections

Bidakov, Andrii; Jockwer, Robert; **Just, Alar; Tuhkanen, Eero**; Kochkarev, Dmitrii 5th International Conference Forum Wood Building Baltic : 26-28 February 2024, Tallinn, Estonia : proceedings https://www.ester.ee/record=b5668645*est 2024 / p. 160-168 : ill <https://digikogu.taltech.ee/et/Item/22318c67-e0ef-42f1-88c7-34c9d9677b17>

Renovation of a wooden building in a historic village - a case study from Finland

Liblik, Johanna; Järnefelt, K.; **Just, Alar** WCTE 2018 - World Conference on Timber Engineering 2018 [Renovation...](#)

Review and analysis of fire resistance tests of timber members in bending, tension and compression with respect to the Reduced Cross-Section Method

Schmid, Joachim; Klippel, Michael; **Just, Alar**; Frangi, Andrea Fire safety journal 2014 / p. 81-99 : ill

Riiklike tehnikaprofessuuride ees seisab rida väljakutseid

Kers, Jaan TööstusEST 2023 / lk. 32-34 : ill https://www.ester.ee/record=b4481084*est

Riiklike tehnikaprofessuuride väljakutsed roheleppe, ringmajanduse ja digiteerimise valguses

Kers, Jaan Mente et Manu 2022 / lk. 26-27 https://www.ester.ee/record=b1242496*est

Room fire test with walls and floors with I-joists

Mäger, Katrin Nele; Just, Alar; Persson, Tommy; Wikner, Alfred; Olofsson, Robert Proceedings of the III Forum Wood Building Baltic, Riga Technical University, 09-10.05, 2022, Riga, Latvia 2022 / p. 34-35 <https://forumwoodbuilding.rtu.lv/wp-content/uploads/sites/37/2022/05/FWBB2022-2022.05.09-speakers-day-1-and-2.pdf>

Simulation of the fire resistance of cross-laminated timber (CLT)

Schmid, Joachim; Klippel, Michael; **Just, Alar**; Frangi, Andrea; Tiso, Mattia Fire technology 2018 / p. 1113–1148 : ill <https://doi.org/10.1007/s10694-018-0728-9> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Skog, treindustri og trekonstruksjoner i Estland

Just, Alar Treteknisk information 2001 / 1, p. 17-20

Slotted-in steel plate connections with dowels in cross-laminated timber shear walls = Sissefreesitud terasplaadiga

naagelliited ristkihtliimpuidust jäikusseintes

Tuhkanen, Eero 2021 https://www.ester.ee/record=b5423477*est <https://digikogu.taltech.ee/et/Item/25d2c18f-714e-4116-87c4-c897b2fc5753>
<https://doi.org/10.23658/taltech.20/2021>

Small-scale assessment method for the fire resistance of historic plaster system and timber structures

Liblik, Johanna; Just, Alar Fire and materials 2023 / p. 62–74 : ill <https://doi.org/10.1002/fam.3069> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Small-scale experimental investigations with engineered wood in fire

Nurk, Jane Liise; Just, Alar; Sterley, Magdalena Proceedings of the III Forum Wood Building Baltic, Riga Technical University, 09-10.05, 2022, Riga, Latvia 2022 / p. 36-37 <https://forumwoodbuilding.rtu.lv/wp-content/uploads/sites/37/2022/05/FWBB2022-2022.05.09-speakers-day-1-and-2.pdf>

Small-scale test method for the fire behaviour of wood adhesive bonds in CLT

Sterley, Magdalena; Noren, Joakim; Liblik, Johanna; Brandon, Daniel; **Just, Alar** Book of abstracts of the final conference COST FP 1404 "Fire Safe Use of Bio-Based Building Products", Zürich, 1st and 2nd October 2018 2018 / p. 91-97 : ill [Fire Safe Use of Bio-Based Building Product](#)

Small-scale tests with adhesive bonds with CLT, GLT and finger joints

Sterley, Magdalena; Olofsson, Robert; **Nurk, Jane Liise; Just, Alar** 2022 <https://www.diva-portal.org/smash/get/diva2:1711912/FULLTEXT01.pdf>

Structural fire design of timber frame assemblies insulated by glass wool and covered by gypsum plasterboards = Klaasvillaga täidetud ning kipsplaatidega kaetud puittarindite tulepüsivus

Just, Alar 2010 https://www.ester.ee/record=b2634535*est

Zero-strength layers for timber frame assemblies in a standard fire

Tiso, Mattia; Just, Alar; Klippel, Michael; Schmid, Joachim; Brandon, Daniel International Network on Timber Engineering Research : INTER : Meeting 50, 28-31 August 2017, Kyoto, Japan : proceedings 2017 / p. 407-420 : ill

Tagavere puitsild

Just, Alar Ehitaja 1998 / lk. 16-17: ill https://www.ester.ee/record=b1072123*est https://artiklid.elnet.ee/record=b2593057*est

Tehnikaülikooli teadlased aitavad puitmaju tulekindlaks ehitada

Just, Alar Äripäev 2019 / Ehitusuudised, lk. 16

Tehnikaülikooli teadlaste uuring aitab ehitada puitmaju tulekindlamaks [Võrguväljaanne]

Himma, Marju novaator.err.ee 2019 / fot [Tehnikaülikooli teadlaste uuring aitab ehitada puitmaju tulekindlamaks](#)

The contribution of cavity insulations to the load-bearing capacity of timber frame assemblies exposed to fire = Isolatsioonimaterjalide panus puitkarkass-seinte ja vahelagede kandevõimele tules

Tiso, Mattia 2018 <https://digi.lib.ttu.ee/i/?10380> https://www.ester.ee/record=b5148516*est

The load-bearing performance of CLT wall elements in full-scale fire tests

Schmid, Joachim; Boström, L.; **Just, Alar** Interflam 2013 : 13th International Fire Science and Engineering Conference : Royal Holloway College University of London, UK : 24th-26th June 2013 : conference proceedings. Vol. 2 2013 / p. 1143-1156

The Performance of Bond Lines of Engineered Wood in Cone Heater Testing

Vihmann, Jane Liise; Just, Alar; Sterley, Magdalena; **Mäger, Katrin Nele; Kers, Jaan** Fire and Materials 2025
<https://doi.org/10.1002/fam.3295>

The reduced cross-section method for evaluation of the fire resistance of timber members : discussion and determination of the zero-strength layer

Schmid, Joachim; **Just, Alar**; Klippel, Michael; Fragiaco, Massimo Fire technology 2015 / P. 1285-1309 : ill
<https://doi.org/10.1007/s10694-014-0421-6> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

The reduced cross-section method for the design of timber structures exposed to fire-background, limitations and new developments

Schmid, Joachim; König, Jürgen; **Just, Alar** Structural engineering international 2012 / p. 514-522
<https://www.tandfonline.com/doi/abs/10.2749/101686612X13363929517578>

The structural behaviour of cross-Laminated Timber Rib Panels in Fire

Kleinhenz, Miriam; **Just, Alar**; Frangi, Andrea Fire technology 2024 / p. 2651-2673 : ill <https://doi.org/10.1007/s10694-024-01552-6>
[Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

Timber structures and wood products

Dageneis, Christian; **Just, Alar**; Östman, Birgit Fire safe use of wood in buildings : global design guide 2022 / 32 p. : ill
<https://doi.org/10.1201/9781003190318-1>

Towards safe and sustainable building : reclaimed timber for structural use

Tienda Resendez, Francisco; Just, Alar; Kauniste, Maarja; Ratassepp, Madis Baltic Polymer Symposium 2025 : 23d International Scientific Conference BPS 2025 "Baltic Polymer Symposium 2025" : Book of abstracts 2025 / p. 33
<http://woodval.taltech.ee/wp-content/uploads/2025/07/BPS2025-Book-of-abstracts.pdf>

Tulekahjumatse julgustab CLT-lahendusi

Just, Alar EhitusEST 2018 / lk. 24-26 : ill http://www.ester.ee/record=b4442657*est https://artiklid.elnet.ee/record=b2866689*est

Tulekindlalt puidust

Just, Alar Ehitaja 2001 / 9, lk. 35-37 : ill https://artiklid.elnet.ee/record=b1007471*est

Tuleohutud puitmajad 3 : Põhja- ja Baltimaade teadmisi koondav juhendmaterjal

2014 https://www.ester.ee/record=b3042487*est

Ühest puitsillast

Just, Alar Ehitaja 1996 / 12, lk. 20-25: ill

Ülikoolid plaanivad puidu ehituspraktikat ümber kujundada

ehitusuudised.ee 2024 [Ülikoolid plaanivad puidu ehituspraktikat ümber kujundada](#)

Ülikoolide koostöö püüab leida lahendusi puidu kasutusaladele raiemahtu suurendamata

Pöld, Merit Harju Elu 2024 / lk. 3 <https://dea.digar.ee/article/harjuelu/2024/10/11/4.1>