

Dr. Adrian Leijten (the Netherlands)

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COST FP1402, MC Member, WG4 Member

*Personal*

Years of experience in relevant field: 26
 Expertise: Structural Timber and Bamboo, connections, dvw reinforced connections, background Eurocode 5.
 Degree: - (-)

Organisation

Department of the Build Environment
<https://www.tue.nl/en/university/department>
 Focus: theoretical and practical research /innovation, design of structures and education/ training
 Facilities: see website

No. of staff	PhD students	MSc/year
2	3	10

Research projects

stresses analyses of non-prismatic timber beams and portal frame corners;
 bearing or support stresses perpendicular to grain;
 splitting of beams caused by connections perpendicular to grain;
 stress concentration of notched beams;
 structural assessment and repair of historic timber structures and foundations;
 climate effects on wooden decorated panels;
 structural behaviour of historic timber connections;
 high rise timber buildings, in-fill frame options, (dvw) reinforced connections;
 wood based panel products; determination of design rules for application as integrated roof-, floor- and wall elements;
 bamboo used as structural elements

Publications

ISI Brandon, D. & Leijten, A.J.M. (2014). Advances in moment transferring dvw reinforced timber connections : numerical analyses and verification, Part 2. Construction and Building Materials, 56, 32-43. doi: 10.1016/j.conbuildmat.2014.01.026

ISI Leijten, A.J.M. & Schoenmakers, J.C.M. (2014). Timber beams loaded perpendicular to grain by multiple connections. Engineering Structures, 80, 147-152. doi: 10.1016/j.engstruct.2014.08.048

Jorissen, A.J.M., Castelijns, L.J.J., Van Rie, J.L.G. & Hofmeyer, H. (2014). Sandwich panels with holes. In A Salenikovitch (Ed.), Proceedings of the World Conference on Timber (WCTE) 2014, 10-14 August 2014, Quebec, Canada (pp. 1-11). Quebec city: FPInnovations.

Brandon, D. & Leijten, A.J.M. (2014). Behaviour of bond lines in dvw reinforced timber connections. In A. Salenikovitch (Ed.), Proceedings of the World Conference on Timber Engineering (WCTE 2014), 10-14 Aug

Wrzesniak, D., Fragiacommo, M. & Jorissen, A.J.M. (2014). Alternative approach to avoid brittle failure in dowelled connections. In S. Aicher, H.W. Reinhardt & H. Garrecht (Eds.), Materials and joints in timber structures : recent developments of technology (RILEM Bookseries, 9) (pp. 273-287). Springer. <http://repository.tue.nl/770181>

