Mass Timber ACADEMY

Need to Know

INFORMATION ON MASS TIMBER TECHNOLOGIES FOR

ARCHITECTS | ARCHITECTURAL TECHNOLOGISTS | STRUCTURAL ENGINEERS

Dowel Laminated Timber: what is it and why should I use it?

You've heard of cross laminated timber (CLT) - you may even have used it on one of your projects. Like Glulam, it's a glued laminated timber system.

For all sorts of environmental reasons, not everyone wants to use glued products, however, but laminated timber panels that don't use any adhesives to hold them together? How does that work?

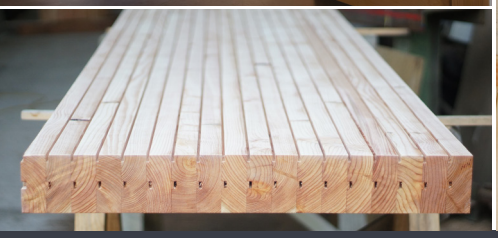
Dowel laminated timber uses hardwood rods to fasten the softwood layers of boards together, whether in a glulam-like assembly (board-on-board) or in cross laminated form. The technology is simple - in fact, it's been used for hundreds of years - but the ways in which it is applied today are new.

MORE OVERLEAF

BOOK NOW

ONLINE WORKSHOP AND DESIGN SPRINT

Design and Construct with Dowel Laminated Timber
02 Sep 2021, 14:00 – 30 Sep 2021, 16:30
(five afternoon sessions | 10 hours of Continuing Professional Education)



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Why should I consider dowel laminated timber for my projects?

Dowel laminated timber performs similarly to cross laminated timber and glulam, and is used in other parts of the world to construct even large commercial and public buildings: it's not just for domestic-scale projects and assembly is generally no more complicated than for CLT. So why haven't you heard of it before?

There are a couple of reasons: no commercial manufacturing takes place in this country (this is true for CLT too) and there are only a handful of DLT buildings in the UK at present. Hence the reason why you've not seen or heard much about this product in architectural/ engineering magazine, blogs or podcasts. There are plenty of examples in Europe, though, with more than 20 manufacturers the Continent producing different forms of DLT. The technology is also increasingly used. In North America.

Apart from the absence of glue, what makes it different from CLT and glulam?

There are many benefits to the use of dowel laminated timber - too many to list here - but suffice to say that as an alternative to glued laminated timber products it offers a number of distinct opportunities, not the least being its potential to be manufactured around the country from locally-grown timber.

Intrigued? Want to know more?

The Mass Timber Academy opens its Autumn/Winter 2021-22 online workshop programme on 02 September with 'Design and Construct with Dowel Laminated Timber' and, in the course of five sessions you'll learn all there is to know about this technology. You'll also have the opportunity to apply this new knowledge in a small design project.

Five consecutive Thursday afternoons: that's all it takes for you to acquire specialist knowledge from a range of national and international manufacturers, practitioners and DLT experts.

And there's no hard sell involved: this is not product promotion - this is structured continuing professional education to start you on a lifelong learning journey which can lead you to become a specialist in the design of modern engineered timber systems.

Why do I need this now? Why is this important?

The global construction industry is moving towards greater use of renewable materials: the climate emergency, net-zero carbon targets and the benefits of a circular economy have all combined to create a perfect storm in which we need to rethink the way we design and construct our future built environment.

Many countries are changing their building regulations to incentivise more timber construction across all building types, large and small. As a result, the international market for architects, technologists and structural engineers with in-depth knowledge of mass timber system design and construction is growing apace: those who can already demonstrate specialist experience in this area are securing projects on a global basis.

Put simply, building technology is evolving towards more sustainable methods and those who fail to keep up with the current pace of change by taking on new knowledge and developing new skills are likely to be left behind.

What's the catch?

There isn't one.

This is the education on timber design and construction you didn't get at university but which is now essential knowledge.

The Dowel Laminated Timber Workshop and Design Sprint form the first stage in the Mass Timber Academy's Autumn/Winter 2021-22 four-part workshop programme. Diary dates for the full series are -

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02. Sept- 30 Sept 2021
Workshop #01 - Dowel Laminated Timber

28 Oct - 25 Nov 2021
Workshop #02 - Cross Laminated Timber (CLT)

13 Jan - 10 Feb 2022
Workshop #03 - Glue Laminated Timber (Glulam)

10 March - 07 April 2022
Workshop #04 - Laminated Veneer Lumber (LVL).

Each workshop is accompanied by a 'Design Sprint' - a short, highly focused design exercise in which participants can apply the knowledge acquired in the workshops. Participation in the Design Sprint is included in the Workshop fee.

Want to attend all four Workshops?

If you choose to participate in all four workshops, you qualify for a heavily discounted price - see website for full details -

www.masstimberacademy.com

Don't Put it Off!

You won't get this level of information or quality of education anywhere else - and certainly not at this price. There are no books that cumulatively cover all of these technologies at the level of detail you'll encounter in the Mass Timber Academy's Workshop series.

So, put the delays and frustrations of Covid lockdowns behind you and reset your career path on a course that ensures a satisfying and successful future in the world of modern renewable technologies: advanced timber design and construction is the future!

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