

TOE | TIMBER ONLINE EDUCATION

Design Build Research: Timber Online Education Needs Analysis Questionnaire Frequently Asked Questions (FAQs)

What is Design Build Research?

Founded by Architect Michael Green and Structural Engineer Eric Karsh, Design Build Research (DBR) is a non-profit organization that offers a new model for design education and research. DBR will soon offer Timber Online Education, a library of free, open online courses on the design, engineering, and construction of mass timber buildings.

Why am I being asked to complete this questionnaire?

In preparation for course development and delivery of the free, open online Timber Online Education program, we would like to better understand the training and education needs and interests of industry professionals related to the design, engineering, and construction of mass timber buildings.

What is mass timber?

Mass timber is a term used to describe engineered wood products that typically involve the lamination and compression of multiple layers to create solid panels, beams and columns. Mass timber construction uses solid wood panels to frame a building's walls, floors and/or roofs and is seen as a sustainable and more carbon-friendly alternative to steel and concrete.



Image courtesy of
www.naturallywood.com
(Architect Acton Ostry)



Image courtesy of
www.naturallywood.com
(Architect Perkins + Will
Canada Architects Co.)



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www.naturallywood.com
(Architect Perkins + Will Canada
Architects Co.)

What types of mass timber products are available?

1. **Cross-laminated timber (CLT).** CLT is made up of layers of dimensional lumber stacked perpendicularly and glued together to create structural panels. CLT panels are typically made of three, five or seven layers of lumber and because they offer two-way span capabilities they can be used for floors, walls and roofs.

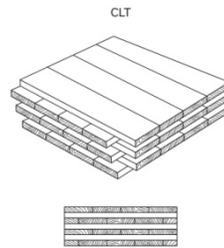


Image courtesy of Think Wood (<https://www.thinkwood.com/>)

2. **Glue-laminated timber (glulam).** Glulam is made from stacking dimensional lumber on edge and bonding the layers together with moisture-resistant adhesives. Glulam is commonly used for floors, beams, columns and arches.

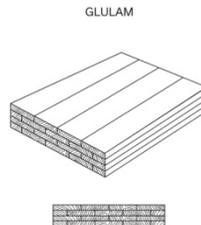


Image courtesy of Think Wood (<https://www.thinkwood.com/>)

3. **Nail-laminated timber (NLT).** NLT is made by stacking layers of dimensional labor on edge and fastening them together with nails or screws. NLT is commonly used in floors and roofs and can also be used to construct elevator shafts.

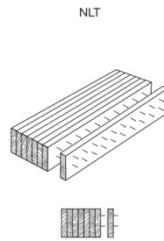


Image courtesy of Think Wood (<https://www.thinkwood.com/>)

4. **Dowel-laminated timber (DLT).** DLT is similar to nail-laminated timber (NLT), however, DLT uses wood dowels to join laminations. DLT is commonly used for floors and roofs because the grains run in one direction.

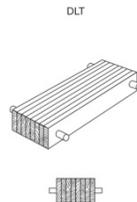


Image courtesy of Think Wood (<https://www.thinkwood.com/>)

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5. **Laminated veneer lumber (LVL).** LVL is manufactured by bonding thin wood veneers together under heat and pressure. LVL is commonly used for headers and beams, and flanges for prefabricated wood I-joists.
6. **Solid-sawn timbers.** Also known as heavy timber, solid sawn timber is timber that is cut from a single log, as opposed to engineered products like glulam which are made from smaller pieces of wood that are laminated or glued together.

How long does it take to complete the questionnaire?

The questionnaire will take 15 minutes to complete.

Do I need to participate in this survey?

Participation in this research is completely voluntary and you may opt out of at any time.

As a thank-you for your time, you will have the option to enter into a *draw to win an iPad Pro or a copy of "Tall Wood Buildings: Design, Construction and Performance,"* by Michael Green and Jim Taggart. After completing this survey, you will have the opportunity to find out about our free online courses and request a copy of the results.

In order to receive information about the free online courses, the results of the survey, or to be entered into the prize draw remember to include your name and email address at the end of the online questionnaire.

How will the information I submit be used?

Your responses will only be used for statistical purposes and will be reported in aggregated form. All information you provide is in accordance with the Freedom of Information and Protection of Privacy Act. Your identity will not be associated with your responses.

Questionnaire responses will be considered when developing the content and structure of a new free, open online education program called Timber Online Education (TOE). TOE is being developed by a non-profit organization, Design Build Research, founded by architect Michael Green and structural engineer Eric Karsh. The organization is headquartered in Vancouver, Canada. Along with input from other design and construction professionals and students, the information you provide will be extremely valuable in helping us develop courses that are relevant and accessible.

What if I have questions?

For questions about questionnaire access, please contact R.A. Malatest & Associates Ltd., toll-free at 1-855-412-1944 or by emailing timber@malatest.com. If you have questions about the questionnaire content or Timber Online Education, please visit our website or contact Design Build Research at info@dbr-school.org.