

Improving on nature: making wood better!

Session II of
The InnovaWood Tribe Virtual meeting

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Source: EPF, Brussels





Source: Metsa Wood









Source: EPF, Brussels

Construction Materials

- Wood

- strong
 - tensile strength (100 MPa) and compression (40 MPa)
- light weight, easily worked
- susceptible to moisture, biodegrade and fire

- Cement/concrete

- poor tensile strength (4 MPa)
 - steel reinforcing required
- heavy, difficult to work once cured
- durable, fire and moisture resistant, strong in compression (70 MPa)



Composites technology can make wood

- Longer, wider and thicker
- Stronger
- Dimensionally stable
- Bio-resistant
- Fire resistant
- Smoother
- More decorative





Source: <https://www.portoprotocol.com>

**Are composites
better than wood?
YES, they can be!**

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