



Improving on nature: making wood better!

Session II of
The InnovaWood Tribe Virtual meeting

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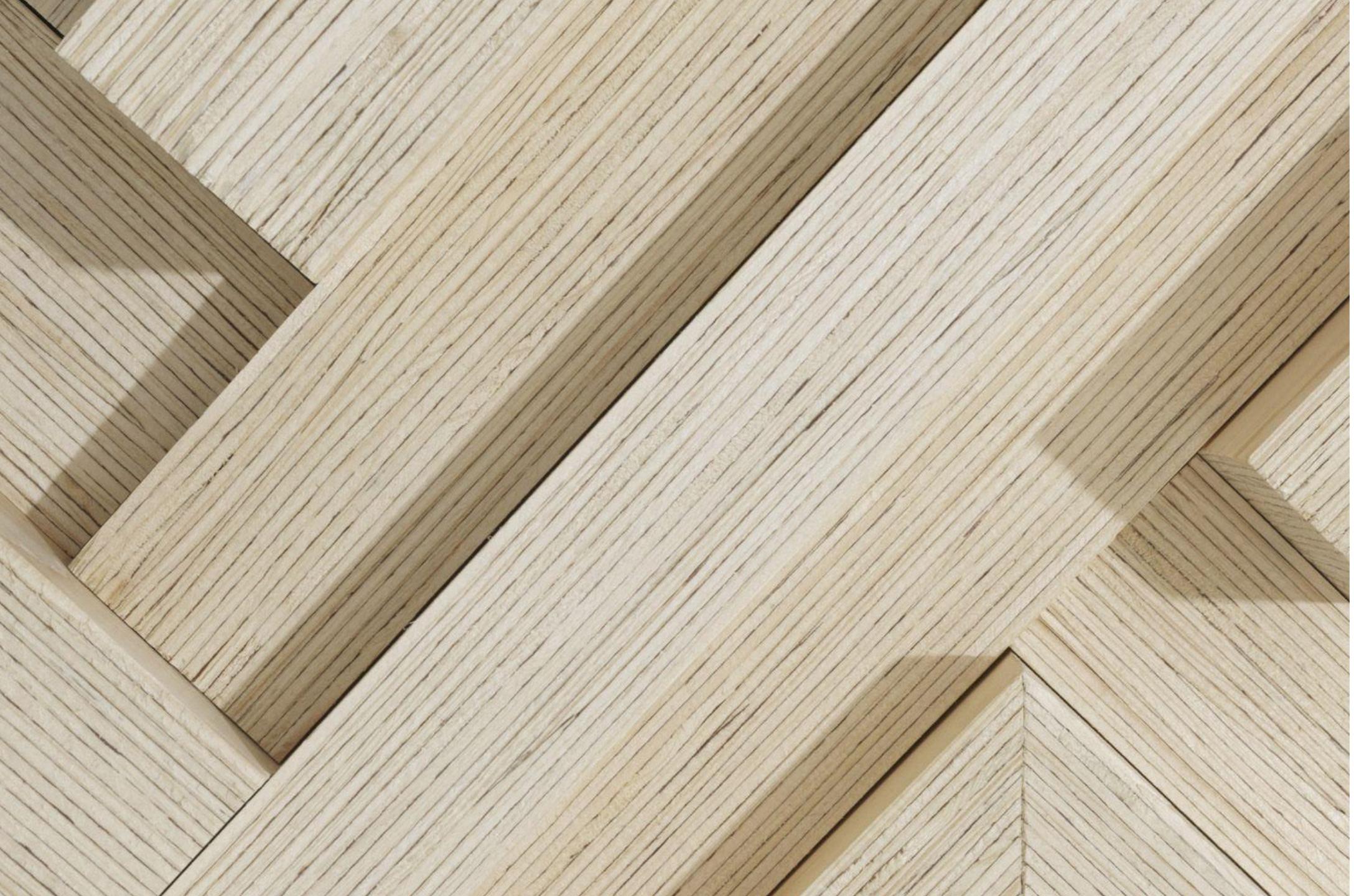
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Source: EPF, Brussels





Source: Metsä Wood







Source: Siempelkamp



A diamond-shaped piece of MDF (Medium-Density Fiberboard) is shown against a dark, textured background. The letters 'MDF' are embossed in the center of the board.

Source: EPF, Brussels

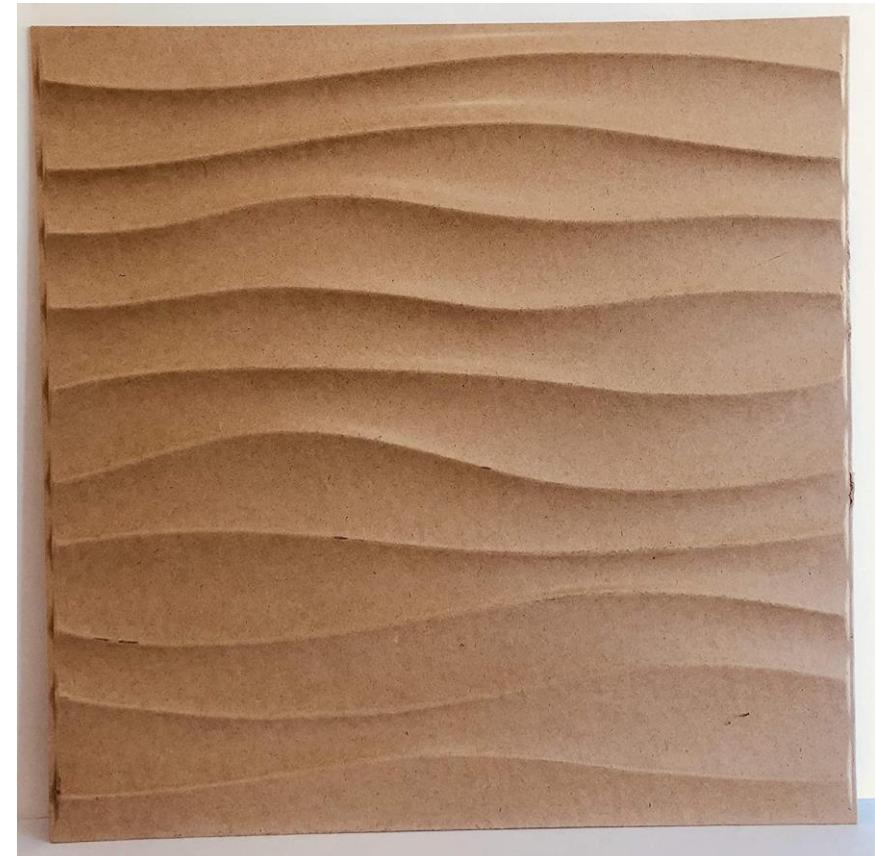
Construction Materials

- 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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