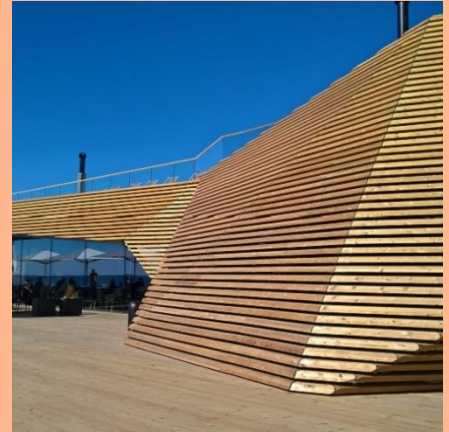


Focus topic – Technologies for wood modification

Thermo Mechanical Timber Modification

Avant Wood provides innovative Thermo Mechanical Timber Modification solutions (TMTM™) and associated process control software and hardware technology. With Avantwood's modification units, small-diameter timber can be used commercially in high value-added engineered wood products. Timber can be modified to make products with specific characteristics, such as hardness, strength, moisture and age durability, dimensional stability. This technology is 4-in-1 with optimized process control: drying, densification (if required), thermal treatment and additional impregnation with eco-friendly additives for fire or termite resistance. TMTM was used to produce the timber exterior of the Löyly in Helsinki, using local plywood cores of birch and small-diameter pine thinning.



[Learn more](#)

Collaboration opportunities

- Partners with experience in the use of thinning wood; small diameter to high-value cladding, decking and furniture; undervalued wood species with densification and modification; species with long drying time or high drying defects; efficiency increase for fire protection impregnation.
- Manufacturers of highly demanding materials like window frames, and highly durable top lamellas.

[Presentation \(PDF\)](#)

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