Life Cycle Assessment, EPDs and modified wood
COST Action FP1407 1st Conference

Koper, Slovenia
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The use of modified wood in Slovenia
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Understanding wood modification through architect’s eyes

Modern architecture does not mean the use of immature new materials; the main thing is to refine materials in a more human direction.

Alvar Aalto
Producers in Slovenia

**Silvaproduct**, *Sil vapro wood*. The process uses special modification chamber, where modification starts with an initial vacuum phase. The chamber capacity is 4 m³ and the treatment time per cycle is from 18 - 36 hours, depends on the thickness of wood and desired treatment temperature (170 °C - 230 °C).

**I-Les**, uses Wood Treatment Technology’s (WTT) process. The chamber capacity is around 4 m³ and uses treatment temperatures around 160 - 180°C.
What architects think about wood modification

1. Are you familiar with modified wood?
2. Are you familiar enough with its advantages and disadvantages?
3. Do you have enough information about it? Do you know for what purpose would be used?
4. Products of thermally modified wood are already available on the market. Did you use any of them?
5. Do you know any Slovenian producer of modified wood?
Modified wood is ideal for use as a cladding, terrace flooring, railings, windows, doors, and anywhere wood is exposed to the environment, but not loaded.
Simplicity and repose are the qualities that measure the true value of any work of art.

*Frank Lloyd Wright*
The Tango House

Ljubljana

Residential building
Location | Ljubljana
Year | 2014
Architect | Boštjan Debelak
Architectural firm | Boštjan Debelak, samostojni arhitekt
Structural engineer | CBD d.o.o.
Energy efficiency | low-energy
Surface | 142m²
Site area | 548m²
Construction system | solid timber Xlam construction
Construction company | CBD d.o.o. s kooperanti
Construction time | 7 months
House technique | heat water to water heat pump, floor heating, open fireplace
Thank you

Contemporary Slovenian Timber Constructions: an Architectural Design Approach

How to increase use of modified wood?