

WOODFLOW-CORE

Reinventing the **core** of construction

A new class of **Structural Slab**



WOODFLOW-CORE

Woodflow-core is a **structural sandwich slab** made from oriented timber strands. Designed to be installed dry, on-site and engineered for spans up to 14m. It carries the same loads as reinforced concrete at one-tenth the weight.

STRUCTURAL ADVANTAGES

01 Drop-in replacement

Same structural performance as reinforced concrete slabs in mid- and high-rise commercial buildings.

02 Modular and dry-installed

Prefabricated elements with integrated connectors. Assembled on-site in hours, not weeks.

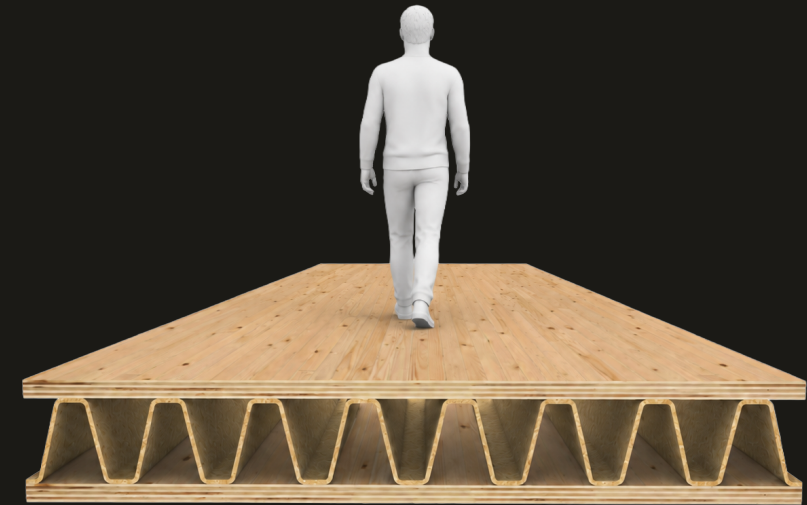
03 Cost parity with concrete

An independent third-party study confirms Woodflow-core reaches the same total structural material cost as reinforced concrete, without considering additional savings from reduced logistics.

04 RE2020 compliant

Stores 86.5 kg CO₂/m². Meets the strictest embodied-carbon mandates from day one.

The first ever **timber-based imber-based long-span structural system** that competes with reinforced concrete, at cost and scale.



Why it matters, in numbers.

Sustainable construction has long been sought. High costs and limited performance have halted its adoption. Woodflow-core attacks emissions, materials, and project timelines simultaneously, without raising costs.

17^{kg/m²}

Slab weight
(vs. 221 kg/m² RC*)
*Reinforced concrete

86.5[%]

CO₂ captured
per m²

up to 14^m

Maximum
structural span

-75[%]

Trees saved
vs CLT

From low-grade log to load-bearing slab.



MATERIAL
Strand formulation

Minimum material, maximum forest productivity. Using 60-85% of each log, Woodflow-core delivers up to 400% more yield per tree, across any species.

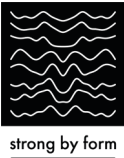


FABRICATION
Automated production

Existing equipment integrated with a proprietary manufacturing system produces components with high precision and repeatability.

CONSTRUCTABILITY
Seamless integration

Factory-controlled production delivers finished elements ready for immediate installation. No adaptation needed on-site, no wet trades, no curing time.



The technology behind the slab.

Strong by Form pioneers **Woodflow®**, a biomimetic technology inspired by the structural genius of trees. By translating fiber alignment and shape optimization into a patented software-driven manufacturing process, we are replacing concrete, steel, and aluminum across industries, starting with Woodflow-core.



Our partners:



Less material. More structure.

90 % lighter
than reinforced concrete slabs

10 m+
structural spans

