

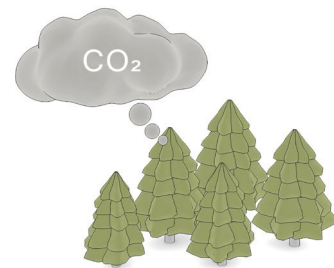
Scrimber CSC

Produce CO₂ -storing and load-bearing building products

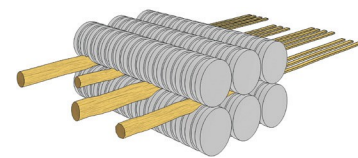
Scrimber CSC
Carbon Sink Concrete

From the forest to the building

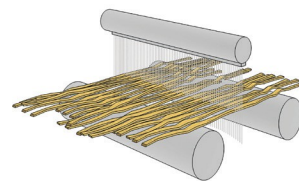
Trees store up to 20 tonnes of CO₂ as they grow. Using the scrimber process, the tree trunks and branches are rolled and processed into construction products. The stored CO₂ remains stored in the products.



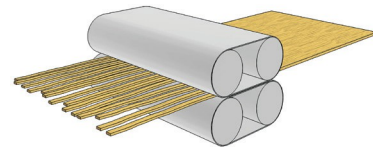
1 Trees grow
Through photosynthesis, trees extract large quantities of CO₂ from the atmosphere and turn it into wood, our raw material of the future.



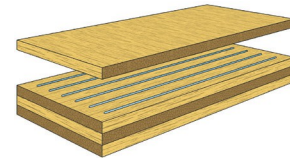
2 Rolling tree trunks
Tree trunks are passed through several pairs of rollers and shredded into individual wood splinters. The fibre strands remain intact.



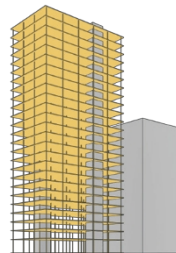
3 Glue the chaff
The wood chips are dried and mixed with adhesive. The aim is to use a bio-based adhesive.



4 Produce raw panels
The glued splinters are pressed into scrimber boards. They are suitable for further processing into building products.



5 Manufacture building products
Glulam and cross-laminated timber manufacturers process the scrimber raw panels industrially and cost-effectively into building products.



6 Replacing steel and concrete
Scrimber can be used to create columns, beams and slabs for the load-bearing area. They replace reinforced concrete.

Bern University of Applied Sciences as a competent research partner

Bern University of Applied Sciences BFH is one of the world's leading wood technology research institutions. As a competent research partner, it plays a key role in the Scrimber project. The Institute for Materials and Wood Technology (IWH) at BFH is the ideal partner for the successful development of scrimber technology thanks to its many years of experience, specialist expertise and the infrastructure it provides.

Association IG Scrimber

The IG Scrimber interest group brings together various national and international players such as forest owners, wood processing companies and potential local communities, thus helping to develop scrimber technology quickly and efficiently. Would you like to become part of IG Scrimber? We look forward to receiving your application!



IG Scrimber
Verein Interessensgemeinschaft Scrimber



Absorb CO₂ and process into building products

Scrimber technology is being developed to provide a sustainable alternative to concrete, steel and bricks in the construction industry, as their production is very resource-intensive and large quantities of climate-damaging CO₂ are emitted.

Conventional load-bearing wood-based materials usually consist of high-quality solid sawn timber lamellas. During their production, there is an abundance of secondary assortments and sawmill residues that have hardly been utilised to date, which are generally only thermally utilised (incinerated). As a result, the CO₂ stored over decades is released back into the atmosphere.



The advantages of scrimber technology

Efficient use of resources

Up to 90 % of a felled tree can be processed into load-bearing components in the long term, which means that the carbon bound in the wood remains stored for decades and serves as a CO₂ store.

Cost savings

The continuous scrimber production process offers a cost-effective, homogeneous wood-based material that helps to minimise risk and enables large-scale timber construction projects.

Utilisation of raw materials

Unutilised raw material sources such as branches, thinnings and sawmill residues keep raw material costs low and offer additional income opportunities for forest owners and the sawmill industry.

Improved strength

In contrast to conventional wood materials, in which the wood fibres are crushed in different directions, scrimber technology increases the tensile and compressive strength of the boards by means of a crushing process that preserves the original wood structure.

Flexibility

The scrimber technology can be flexibly adapted to future tree species, which supports the conversion of forests into climate-resilient mixed forests.

Overall, scrimber technology offers a sustainable and cost-effective solution for the construction industry and helps to store the carbon in wood in the long term and maintain healthy forests.



"Do you have any questions about Scrimber? Please feel free to contact me."

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