



# **Strength Graded Timber** **by Stora Enso**



# Stora Enso

## The renewable materials company

Stora Enso is a leading provider of renewable solutions in packaging, biomaterials, wooden constructions and paper on global markets. Our aim is to replace fossil based materials by innovating and developing new products and services based on wood and other renewable materials.

The Group has some 25 000 employees in more than 35 countries, and our sales in 2016 were EUR 9.8 billion. Stora Enso shares are listed on the Helsinki and Stockholm stock exchanges.

Rethink is our company philosophy. It encourages us to think differently about the way we live our lives and inspires us to find ways to improve our world with renewable solutions.

Our core values — remain at the forefront of innovation and conduct business ethically — underpin everything we do. These values must always comply with local laws and regulations and at the same time should help us have a positive impact on people and the communities they live in beyond the local level.

Our company vision — doing good for people and the planet — expresses our ultimate goal. All our endeavours are guided by a well thought-out and responsible strategy. We strive to improve this world, its communities and the lives of everyone that comes into contact with us through our products, activities and services.

## Our production units

Stora Enso's Wood Products division provides versatile wood-based solutions for building and housing. Our product range covers all areas of urban construction including massive wood elements and building systems, wood components and pellets. We also offer a variety of sawn timber goods.

Wood Products operates globally and has 20 production units in Europe. Our global distribution network ensures consistent and efficient deliveries to our customers.

### Sawing Capacity

- Total 5 440 000 m<sup>3</sup>

### Further Processing Capacity

- Total 2 440 000 m<sup>3</sup>

### Pellet Capacity

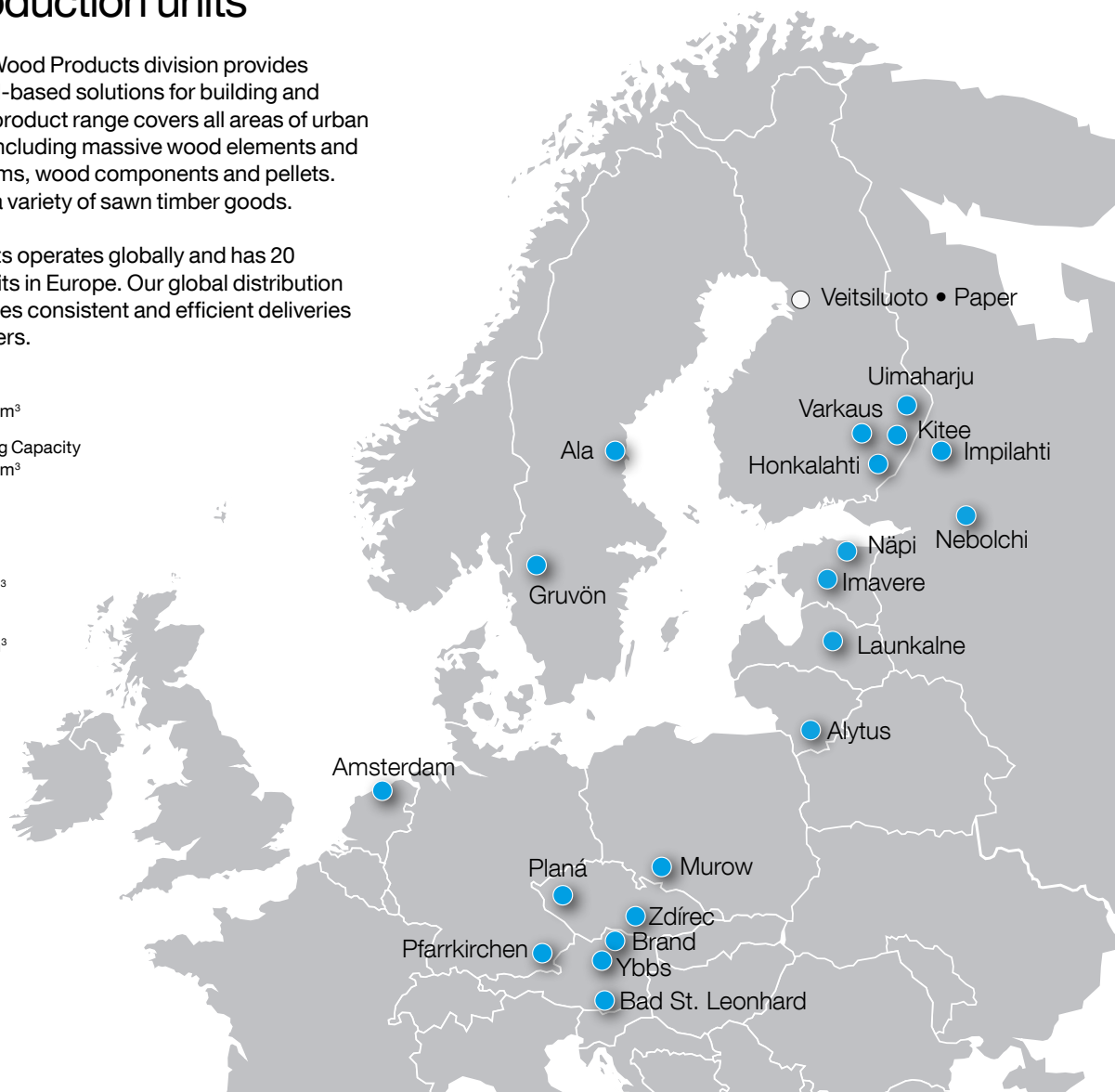
- Total 430 000 t

### CLT Capacity

- Total 150 000 m<sup>3</sup>

### LVL Capacity

- Total 100 000 m<sup>3</sup>





Population growth, urbanisation, climate change and eco-awareness are strong trends driving the business for wood-based solutions. Cities are growing and consequently there is greater need for residential housing as well as office and commercial buildings, resulting in an increased demand for lighter, easy-to-assemble and renewable construction materials.

We believe in a sustainable and energy-efficient construction method for the public and private sectors. Wood, our most important raw material, has many advantages over the materials made from non-renewable resources. Wood is renewable, recyclable and it can be used as a bioenergy at the end of its life cycle. With carbon captured in the wood, the products offer a truly sustainable means of combating climate change.

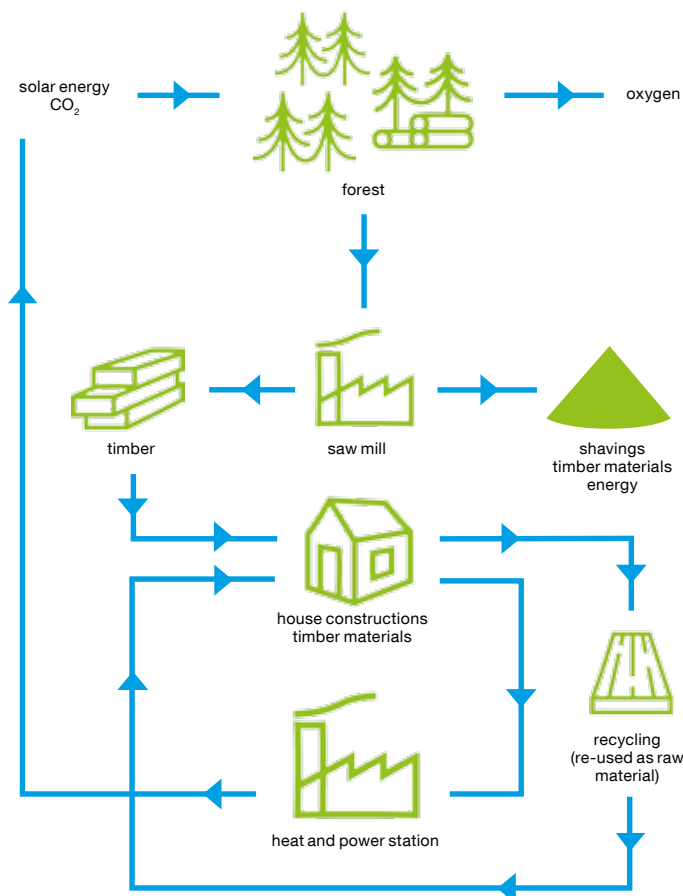
Stora Enso products are manufactured from responsibly sourced wood. The wood supply chains to Stora Enso's Wood Products units are covered by a wood traceability system, which is third-party certified according to PEFC™ or FSC® Chain of Custody system, or according to both systems.

In the manufacturing process, we set constantly higher targets to minimize negative environmental and social impacts and to maximize the efficiency of all raw material use. To achieve operational excellence, we apply integrated management systems. Stora Enso's Wood Products units have a good coverage of third-party certified management systems for Quality (ISO 9001) Environment (ISO 14001) and Occupational Health and Safety (OHSAS 18001).



## Certification for quality and environment

Natural cycle: wood can be re-used, recycled or used as energy.



Wood is an excellent reusable material. At the end of their lifecycle wood products can be used to generate bioenergy, without releasing fossil CO<sub>2</sub>.



# Wood is an excellent building material for structural usage

It is natural, durable and has a highly aesthetic appearance

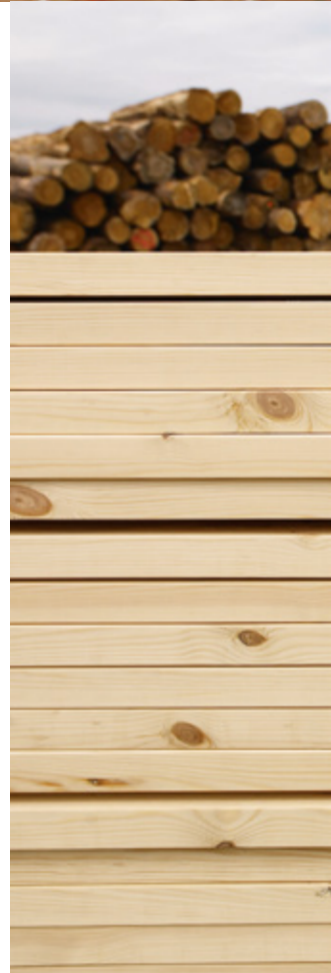


Our Nordic, Central European, Baltic and Russian units are located close to the best, slowly grown, forest areas. The high and harmonious quality of raw material gives our products excellent strength properties, highly aesthetic appearance and consistent quality.

Stora Enso provides a wide range of end use specified wood products for construction and building industry. The products are used around the world for commercial and residential construction, as well as industrial applications. Our customers appreciate the high and consistent quality enabling them to save time and money in any application.

The manufacturing processes are designed for different customer needs and they are continuously improved and developed with changing requirements. Stora Enso Wood Products units utilize the most modern log X-ray and automatic grading technology to select the best raw material for each end use – reducing handling costs and raw material waste. Goods are cut and graded according to the customer needs.

- Consistent and uniform high quality
- Highly accurate size tolerances
- Superior form stability and surfacing
- Flexible sizes and lengths
- Extensive knowledge of wood as a material
- Utilisation of modern technology and high-quality raw material.







# Structural timber, Australia

Stora Enso's structural timber is produced to a light to no-wane specification. The products are manufactured for use by builders, home improvement centres, retailers, truss and wall panel manufacturers, and more. They are the optimal building material for Australian timber frame houses, such as commercial and residential construction, as well as for industrial applications..

- All structural products produced to Australian standards
- Termite treated (optional) H2F Blueshield, H2



## Technical details

Thickness:	35/45 mm
Widths:	70–240 mm
Lengths:	Shorts 1.2–2.1 m / Studs 2.4–3.6 m (including DTL) / Mids 3.9–4.5 m / Longs 4.8–6.0 m
Wood species:	Pine and spruce
Moisture content:	15% average or less
Processing:	Planed or rougher headed, finger-jointed, Kiln dried (Heat treated), PET, Machine stress graded (MSR)
Surface:	Planed or rougher headed
Grades:	MGP10, MGP12, F grades
Produced in:	Austria, Czech Republic, Estonia, Finland, Lithuania, Sweden, Poland



# Structural lumber, North America



Stora Enso's structural lumber is produced to a light to nowane specification. The products are manufactured for use by builders, home improvement centres, retailers, truss and wall panel manufacturers, and more. They are the optimal building material for US timber frame houses, commercial and residential construction as well as for industrial applications.



## Technical details

Thickness:	38–89 mm (2–4')
Widths:	38–286 mm (2–12')
Lengths:	In solid from 1,8–5,5 m (6'–18'), Finger-jointed 1,8–24 m (6'–78')
Wood species:	Pine or spruce
Moisture content:	18% ± 2%
Surface:	Planed
Grades:	ALS/WCLIB No.1, No.2, 1650F, 2100F
Processing:	Planed, finger-jointed, head treated, PET, Machine stress graded (MSR)
Produced in:	Austria, Czech Republic, Estonia, Finland, Lithuania, Sweden





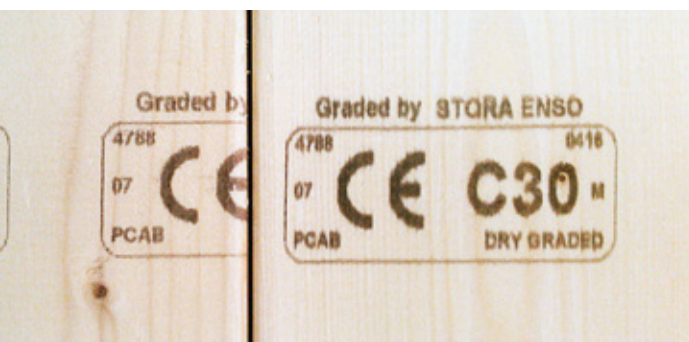
# Structural timber, Europe



Stora Enso's structural timber is the optimal building material for European timber frame houses and their load bearing structures. Excellent strength values, appearance and consistent quality are achieved by utilising the best European raw materials. This enables us to meet all requirements from the standard quality to highest visual and strength grades.

## Technical details

Thickness:	35–55 mm
Widths:	75–225 mm
Lengths:	2.4–6 m
Wood species:	Spruce
Processing:	Machine and/or visual strength-graded, regularised, PAR, PET
Surface:	Rough or planed
Moisture content:	16% ± 2%
Strength class:	CE C14–C40, TR26
Produced in:	Austria, Czech Republic, Estonia, Finland, Lithuania, Russia, Sweden







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