



# Posts and Beams 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 26 000 employees in more than 35 countries, and our sales in 2015 were EUR 10.0 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.

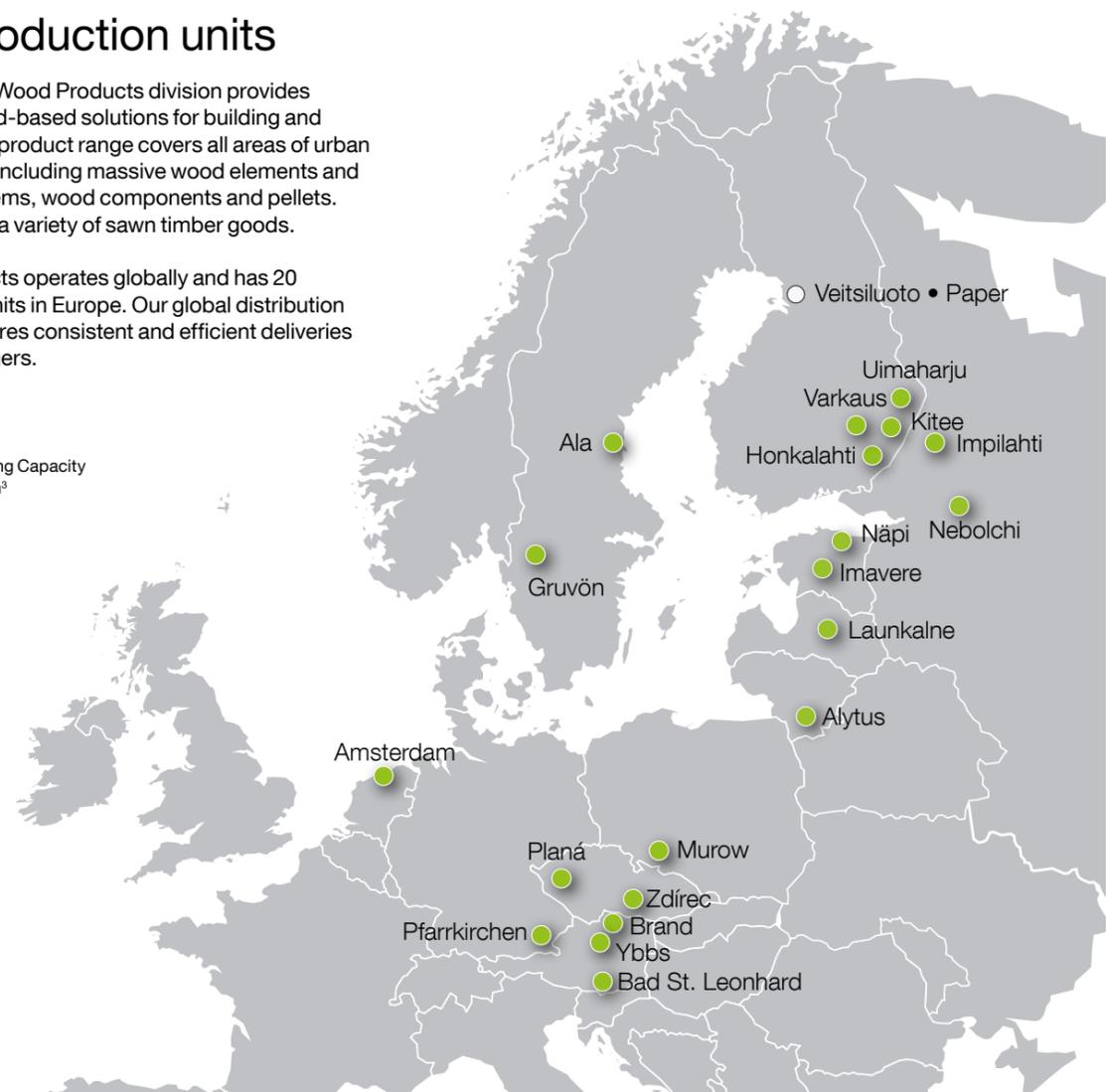
Sawing Capacity  
• Total 5,2Mm<sup>3</sup>

Further Processing Capacity  
• Total 2,500Mm<sup>3</sup>

Pellet Capacity  
• Total 355Mt

CLT Capacity  
• Total 130Mm<sup>3</sup>

LVL Capacity  
• Total 100Mm<sup>3</sup>



### Certification for quality and environment

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.

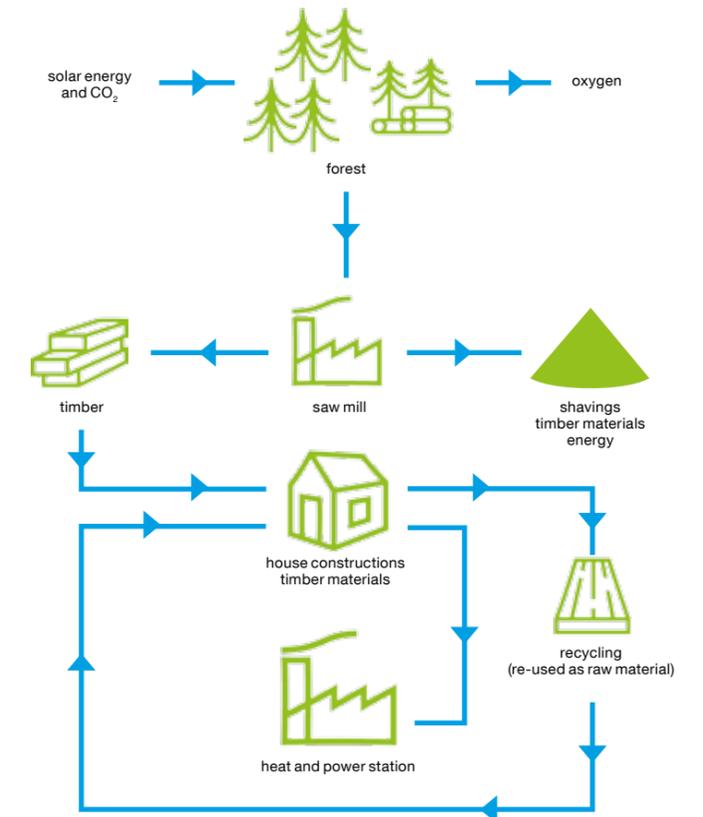
Stora Enso products are manufactured from responsibly sourced wood. The wood supply chains to Stora Enso's Wood Products units are covered by a wood traceability system, which is third-party certified according to PEFC™ or FSC® Chain of Custody system, or according to both systems.

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).



FSC® trademark licence C125195

### Natural cycle: wood can be 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>.

# Post and Beam Construction



## Specifically designed for the Japanese market

To become the leading provider of innovative wood-based solutions, the Wood Products division's strategy is to grow in businesses where it has a strong and sustainable market position, higher profitability and room for differentiation.

Housing in Japan includes both modern and traditional styles, whereas wood is the standard construction material. Being a full assortment supplier for the traditional Japanese housing market is bringing the division closer to its targets. Efforts to strengthen our customer focus, service and improve value chain performance are emphasised.



## Glue-laminated Posts and Beams by Stora Enso

Stora Enso provides structural glue-laminated posts and beams for the Japanese market. We offer a variety of lengths and heights to meet the needs and demands of our customers. Due to high stability, optimal strength values and planed surface, our posts and beams are easy to build and work with.



### Technical details

Thicknesses:	90, 105, 120 mm (posts), 90–390 mm (beams)
Widths:	90, 105, 120 mm
Lengths:	2.650–5.985 m (post-spruce) 2.650–3.985 m (post-pine) 2.750–5.985 m (beams)
Wood species:	Spruce and pine
Moisture content:	12% ± 2%
Grades:	According to JAS structural glue-laminated timber
Strength class:	According to JAS structural glue-laminated timber
Produced in:	Austria, Estonia, Poland

## Edge Glued Mabashira by Stora Enso

### Structural Timber for the Japanese market

Stora Enso provides edge glued Mabashira utilising high quality production experience in structural glue-laminated timber. The stable and high quality and form stability adapt well to local requirements. A variety of lengths are offered to meet the needs and demands of our customers.



### Technical details

Thicknesses:	27, 30, 45 mm
Widths:	105, 120 mm
Lengths:	2.985, 3.985 m
Wood species:	Spruce and pine
Surface:	Planed
Moisture content:	12% ± 2%
Processing:	Planed lamina, glue-laminated, re-cut into Mabashira size, square-moulded, PET
Grades:	No hit and miss, limited tolerance for bow and crook
Strength class:	N/A
Produced in:	Austria



## Hagarazai by Stora Enso

Stora Enso provides further processed timber studs, floor joists and roof rafters. These products are ideal for Japanese houses due to their good stability, optimal strength values and smooth surface. The stable and high visual quality adapt well to local requirements. All standard sizes are available in a uniform quality

### Technical details

Thicknesses:	15–45 mm
Widths:	40–120 mm
Lengths:	2.700–3.985 m
Wood species:	Spruce
Surface:	Planed
Moisture content:	18% ± 2%
Processing:	Planed, finger-jointed
Grades:	A, B
Strength class:	N/A
Produced in:	Austria, Czech Republic, Finland, Russia

## Genban by Stora Enso

Stora Enso provides a steady supply of basic construction wood as raw material for all structural parts in a timber frame house. These items are well adapted to Japanese requirements due to their stable and high visual quality and easy further processing. Products are available in flexible sizes and lengths.

### Technical details

Thicknesses:	22–75 mm
Widths:	125–220 mm
Lengths:	2.985–5.400 m
Wood species:	Spruce
Surface:	Rough
Moisture content:	18% ± 2%
Processing:	Sawn
Grades:	A, B
Strength class:	N/A
Produced in:	Finland

## Lamina by Stora Enso

Stora Enso manufactures rough laminas for glue laminated posts and beams. These items are well adapted to Japanese requirements due to their stable and high visual quality and effortless further processing.

### Technical details

Thicknesses and widths (rough):	24/28x110/127 mm (post), 30/34x110/112/127 mm (beam)
Lengths:	2.985–5.985 m
Wood species:	Spruce and pine
Moisture content:	12% ± 2%
Processing:	Rough
Grades:	A, AB
Strength class:	N/A
Produced in	Austria, Czech Republic, Estonia, Finland, Sweden



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