First multi-storey timber construction by Stora Enso in Hamburg – CLT comes from Austria

Stora Enso Building and Living supplies Cross Laminated Timber (CLT) elements for three innovative multi-family houses at the old goods yard in Hamburg

Ybbs an der Donau, April 2nd 2014: Construction of a multi-storey residential complex, made of solid wood, has completed in Hamburg and the residents have now moved in. The demands of private company, BaugemeinschaftPlan_A, were high from the outset. A total of eleven families have created a shared living space that meets the highest ecological requirements and facilitates flexible space solutions. The architecture is attractive yet functional. Due to the high degree of prefabrication of CLT elements, the construction period can be kept short. Stora Enso Building and Living supplied the CLT solid wood elements for the innovative project and these were manufactured in the CLT unit in Ybbs an der Donau.

Photo: Martin Kunze

Sustainable housing to meet the highest demands

Highly sustainable, energy-efficient and architecturally sophisticated – these were the requirements from BaugemeinschaftPlan_A. To meet these demands, wood was chosen as the building material. Wood is a renewable resource that binds CO2 long-term. In addition, CLT is manufactured by Stora Enso Building and Living from sustainably managed forests. This results in additional advantages in
terms of environmental aspects. "Architecture has rediscovered wood as a building material. With the new CLT solid wood construction product, innovative designs can be implemented. CLT can also be combined with other building materials and its use results in shorter construction periods and space savings. All this makes wood a popular building material for contemporary projects", says Herbert Jöbstl, SVP of Stora Enso Building and Living in Central Europe and he is pleased about the new trend towards wood construction. More and more architects consciously choose wood as a building material, just like this project in the Hamburg urban development district of Barmbek. The architect, Neil Winstanley, of the executing architecture firm, spinearchitects, is one of the new residents.

**Convincing technology and appealing architecture**

As well as ecological aspects, the architect appreciates the effectiveness of the CLT building material. Building with wood creates more living space because the walls can be thinner compared to conventional building materials. In addition, the construction period is shortened, so costs on the construction site are reduced. The 120 millimetre-thick CLT elements were prefabricated in the Stora Enso unit in Ybbs an der Donau and then assembled on site. Once the base layer was completed, all four wooden floors were able to be completed within two weeks per house. Key issues such as noise and fire protection can be easily regulated in solid wood construction and easily meet all regulatory requirements.

The timber constructions offers an additional advantage for residents, as well as a particularly homely atmosphere. The indoor climate in wooden buildings is more pleasant and healthier than in conventional buildings because wood naturally regulates humidity. In addition, wood smells good, looks beautiful and is contemporary. Therefore, residents in wooden houses show demonstrably less symptoms of stress and have healthier lives.

**Project data**

- **Client:** Baugemeinschaft Plan_A GbR, Hamburg  
- **Project:** New construction of three family-friendly multi-family houses with 11 residential units in solid wood construction  
- **Architecture:** spinearchitects GmbH, Willy-Brandt-Straße 45, 20457 Hamburg, Germany  
- **CLT producer:** Stora Enso Building and Living, Ybbs an der Donau  
- **Installed amount of CLT:** 540 m³  
- **Construction period:** 10/2012 – 11/2013  
- **Timber construction:** Terhalle timber construction  
- **Structural design:** Assmann planen und beraten GmbH, Hamburg
About CLT

CLT is a solid wood construction product which is made of at least three layers of single-ply boards, glued together transversely, and is currently produced in a size of up to 2.95 x 16 m. CLT solid wood panels consist of several layers and are available in different panel thicknesses, depending on the static requirements. The lamination is carried out using environmentally-friendly adhesive. CLT offers almost unlimited possibilities regarding design concept, style and architecture and is completely compatible with other construction materials. CLT is suitable for interior and exterior walls, as well as floors and roofs. The finished tailored CLT panels are delivered directly to the construction site, where they are then fitted by a construction company. With an annual capacity of 120,000 cubic metres, Stora Enso is the world's largest producer of CLT.

www.clt.info

About Stora Enso Building and Living

Stora Enso Building and Living provides wood-based innovations and solutions for everyday living and housing needs. Its product range covers all areas of urban construction, from supporting structures to interior design and environmental construction. The further-processed products include massive wood elements and housing modules, wood components and pellets. A variety of sawn timber goods complete the selection. Building and Living serves public and private sector customers, such as construction companies, merchandisers and retailers. Building and Living has more than twenty production units in Europe and operates globally, with its main markets in Europe, the Middle East and North Africa, and Asia Pacific. The products are made of renewable, high-quality European pine or spruce with 100% traceability. With carbon captured in the wood products, they offer a truly sustainable means of reducing climate change.

www.storaenso.com
buildingandliving.storaenso.com

Questions and Images

bettertogether
Lindengasse 26
1070 Vienna
+43 1 8902409
office@bettertogether.at