

Japan's First CLT-constructed Hotel Huis Ten Bosch's "Henn-na Hotel"

Framing Begins for New Building Uses CLT Construction Method

Sumitomo Forestry Co., Ltd. (President and Representative Director: Akira Ichikawa; Head Office: Chiyoda-ku, Tokyo) announced today that, together with Kajima Corporation (President and Representative Director: Yoshikazu Oshimi; Head Office: Minato-ku, Tokyo), which will manage design and construction, it has begun second round construction of a new building to the Henn-na Hotel project operated by Huis Ten Bosch Co., Ltd. (President and CEO: Hideo Sawada; Head Office: Sasebo City, Nagasaki Prefecture) on September 30, 2015. This represents the first time that the cross laminated timber (CLT^{*1}) construction method has been used in Japan to build hotel facilities.



Source: Kajima Corporation

1. One of the Massivholz construction materials experiencing growth in Europe, CLT comes in large panels of layered and bonded sawn planks with the grain direction of each plank running perpendicular in each layer. CLT was first standardized in Japan on December 20, 2013 under the Japanese Agricultural Standard (JAS).

■ Henn-na Hotel, Huis Ten Bosch

Employing robots and renewable energies, Huis Ten Bosch's Henn-na Hotel is a completely new category of hotel that achieves both comfort and productivity. The hotel's name, which means "different hotel" in Japanese, was chosen "with the promise that the hotel itself will always change and adapt to the constantly changing world."

The plan was for Kawazoe Laboratory, Institute of Industrial Science, the University of Tokyo, to manage the first round of construction, which opened in July 2015, and for Kajima Corporation to manage the second round, under the following three initiatives. Sumitomo Forestry is collaborating on design and construction using CLT in the second round.

◇ Three initiatives of the Henn-na Hotel

- The implementation of construction methods expandable to the world, intended to reduce construction costs
- The implementation of automation and service robots aimed to reduce labor costs
- Initiatives towards saving energy and the implementation of solar power intended to improve the self-sufficiency rate of fuel and light expenses.

Refer to Huis Ten Bosch press release: <http://www.h-n-h.jp/en/qa/pdf/01.pdf>

■ Henn-na Hotel, Huis Ten Bosch: second round construction of new building

In the second round of construction, a wooden hotel will be built in harmony with the abundant nature surrounding Huis Ten Bosch, which means “house in the forest.” As Japan’s first hotel facilities constructed using the CLT construction method, Henn-na Hotel was selected among the second Fiscal 2013 Leading Projects for Wood Construction Technology^{*2} promoted by Japan’s Ministry of Land, Infrastructure, Transport and Tourism (MLIT).

This hotel building is a combination of construction units that can be used for a range of applications, with the building material coming in modules that can be loaded into shipping containers in an effort to expand CLT production volumes and improve transport efficiency.

The lamina (sawn planks) used in CLT for this project is constructed of Japanese cedar timber, an abundant resource in Japan, with the aim of helping promote the use and distribution of Japanese timber. The cedar lamina, which includes produce of Nagasaki Prefecture, is being sourced from regions within Kyushu.

Each guest room will have two exposed CLT walls to provide a positive balance between highlighting the qualities of wood and reducing the time and effort spent on interior construction, and to improve the therapeutic effect of the indoor environment. Wall columns and wall beams also hide the column and beam formworks to achieve roomy indoor spaces.



Source: Kajima Corporation

2. An initiative aimed at contributing to the realization of low-carbon societies by developing buildings that use large quantities of timber, which is a reproducible, circulative resource. It subsidizes part of the cost of large constructions using timber that employ leading design and construction technologies especially in the areas of construction and fire prevention.

■ Henn-na Hotel, Huis Ten Bosch: second round construction of new building:

Overview

Project name	: Huis Ten Bosch’s Smart Hotel Project
Hotel name	: Henn-na Hotel, “promising an ever-changing hotel”
Business operator	: Huis Ten Bosch Co., Ltd.
Location	: Huis Ten Bosch, Sasebo, Nagasaki, Japan
Site area	: 16,577.56 m ²
Floor Area	: 2,049.71 m ²
Construction and number of floors	: Wooden CLT construction (guest wing) / Steel frame construction (walkways, bridges, etc.)
Use	: Hotel facilities
Number of guest rooms	: 72 rooms (54 T-type rooms of 20 m ² and 18 F-type rooms of 18 m ²)
Construction time	: From August 2015 through February 2016 (planned)
Planned opening	: March 2016
Design	: Kajima Corporation, with design collaboration by Sumitomo Forestry (CLT construction design and construction method development)
Construction	: Kajima Corporation, with CLT construction and technical assistance by Sumitomo Forestry