



Report

Expo2025 wooden architecture

Sustainable architecture using wood attracts world attention

EXPO 2025 Osaka/Kansai Expo is about 450 days away from opening on April 13, 2025. The event will be held for 184 days from April 13th to October 13th, with the theme of "Designing a future society where life shines." Construction is progressing at a rapid pace at the planned site for the Expo on Yumeshima, an artificial island in Osaka City. Since the first World's Fair was held in London in 1851, it has been held 47 times in the past, but the

World's Fair, where authentic wooden architecture will attract attention, will be held in Osaka in 2025. It can be said that the Kansai Expo will be the first. Against this backdrop, this magazine will report on the latest trends surrounding the Osaka/Kansai Expo that you should know about for our main readers, those involved in wooden houses, buildings, and related businesses.

The world's largest wooden deck
What is of great interest to the



Approximately 110 pavilions are planned at the Expo site.

main readers of this magazine, those involved in wooden houses, buildings, and related businesses, is the wooden buildings used in related facilities. The deck that surrounds each country's pavilions and theme halls is also known as the "Ring" and is expected to not only become a

symbol of the Expo venue, but also one of the largest wooden structures in the world. The length of the circumference is 2 kilometers. The building area is approximately 60,000 m² (floor area: 60,000 m²). The height is 20m (outside) to 12m (inside), the width is 30m, and the



Completed image of the Japan Pavilion: Building using domestic CLT

Special Feature: Wooden Pavilion

inner diameter of the circumference is approximately 610m, surrounding the pavilions of each country. Construction of the large roof (ring) will begin on June 30, 2023. After the foundation work was completed, 420mm square pillars and 210mm x 420mm beams were assembled into a unit on the ground. The units are lifted and assembled using a crawler crane. As of January of this year, about half of it was completed (photo). The total construction cost for the large roof (ring) is planned to be approximately 35 billion yen. A wooden pavilion was also announced. Approximately 110 pavilions are planned for the Expo, and approximately 50 uniquely designed "Type A" pavilions are planned. In addition to the Japan pavilion, wooden buildings are

also being planned in developed European countries. There is. The Japan Pavilion, which is currently under construction, has a site area of 12,950 square meters, a total building area of approximately 11,360 square meters, three floors above ground, and a hybrid structure of steel and wood construction, using domestically produced CLT for the wooden structure. . In the design, based on the Japan Pavilion's concept of "a relay to the next life," planned a circular design that embodies the "relay of life" and "cycle of life."

On December 19th, the groundbreaking ceremony for the Italy Pavilion, the first for an overseas pavilion exhibitor, was held at the pavilion's planned construction site at the Expo venue in Yumeshima, Osaka. At

@courtesy of Italy Pavilion - Italy at Expo 2025 Osaka



Groundbreaking ceremony held at the groundbreaking ceremony for the Italy Pavilion

the groundbreaking ceremony, Ambassador Mario Vattani, Commissioner General for Italy at Expo 2025 Osaka, and other related parties attended the ceremony (Marco Prencipe, Consul General of Italy in Osaka, Kimishi Nishio, President and CEO of Nisio Holdings Co., Ltd., Hiroyuki Ishige, Secretary General of the 2025 Japan Association for World Expo 2025, Hirofumi Yoshimura, The Governor of Osaka Prefecture, Kei Kinukawa, Representative Director and Vice President of Kosei Construction Co., Ltd., and Tsutomu Himeno, Government Representative/Ambassador Extraordinary and Plenipotentiary

(Kansai) attended.

The Italy Pavilion has been designed by architect Mario Cucinella. To build the Italy Pavilion, a team of Italians and Japanese work together, with the participation of Nishio Holdings, Kosei Construction, and Nomura Kogeiha.

Ambassador Mario Vattani, Commissioner General for Italy at Expo 2025 Osaka, commented, “We look forward to working together to ensure the success of the Osaka-Kansai Expo and to further strengthen and develop the partnership between Italy and Japan.”



Venue under construction (EXPO 2025 Osaka/Kansai Expo)