

Relocatable indoor pool built using modular timber construction

Stuttgart, Germany



Project details

Client	Stuttgarter Bäder, vertreten durch Hochbauamt, Landeshauptstadt Stuttgart
Architecture	4a Architekten
Project type	Leisure and sport
Construction type	Wood element construction, Modular construction
Services	Joint GC building shell, Timber construction
Construction	2025, 2026
Locality	Stuttgart
Country	Germany

The removable, transportable POOL out of the BOX

The architecture of the indoor pool, with its 25-metre basin, five lanes and a partial moving floor, was designed by 4a Architekten from Stuttgart. Blumer Lehmann provided the modules, components and timber construction expertise. The full-featured temporary pool can be set up in a short time and dismantled again after use, before being transported and reassembled elsewhere. Modular timber construction is central to the concept of the relocatable indoor pool. Some 28 modules on the ground floor and 18 on the upper floor make up the entrance area and common areas, changing rooms, technical and sanitary rooms. The modules are equipped with the interior finishings, furniture and swimming pool technology at the factory. The ceilings and installations are also largely prefabricated and fitted out in the factory, as is the grey-painted larch wood facade. The load-bearing hall structure will be erected as an element construction. The cross-laminated timber roof elements are delivered ready for assembly and connected on site.

All connections in modular and element construction – from screw joints to waterproof seals – have been designed so that they can be detached again. This requires precision in prefabrication, well thought-out, detailed solutions for interior finishing and building technology, and maximum coordination between statics, technology and assembly. This is especially important because the statics and load assumptions have to work reliably not just for one, but for multiple locations.

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The fascinating world of wood

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Innenausbau im Holzbau: Rohbau eines Schwimmbads mit sichtbarer Holztragstruktur und installierter Beckenanlage.



Transport und Verladung im Modulbau: Ein vorgefertigtes Holzmodul wird per Kran auf den Lkw gehoben und für den Einsatz auf der Baustelle vorbereitet.



CLT-Beckenkonstruktion im Aufbau: Montage der massiven Holzwände eines Schwimmbads auf der Baustelle.

Modulare Holzbauweise im Einsatz: Ein vorgefertigtes Raummodul wird nachts per Kran präzise auf der Baustelle positioniert.

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Drei Personen besprechen auf der Baustelle den Fortschritt eines modularen Holzbaus, umgeben von Gerüst und bereits montierten Holzelementen.