

References

References



Brütten _ Architecture Meets the Local Landscape. TS3 Roof as a Covered Roof Terrace

Architectural challenges arising from building codes, the local character of the area, and the client's interior design requirements, as well as nearly insurmountable technical challenges. TS3-PTS elements were manufactured accordingly, and in combination with TS3 technology, the roof load could be transferred to the exterior walls.



Egg, Canton of Zurich - Single-family home roof with skylight

The floor-to-ceiling windows lend character to this architecturally sophisticated building and flood the interior with light. The skylight brings natural light onto the spiral staircase, setting the scene.



2 Pavilions at the Matt School in Hergiswil

Two spacious wooden shelters were built for the playground at Obermatt School in Hergiswil. The open roofs create sheltered gathering areas and clearly define the outdoor space.



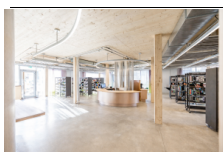
Luegisland apartment building, Schwamendingen

In Zurich's Schwamendingen district, the Luegisland apartment building is an innovative replacement construction on a very small site, impressing with its sustainable timber construction, urban finesse, and functional design., Schwamendingen



Apartment building at 211 Zollikerstrasse, Zürich

The new building is based on a pure TS3 skeleton construction with point-supported flat slabs—completely without beams. The floors, made of continuous CLT panels, connect interior and exterior spaces both visually and structurally. Balconies and living spaces flow seamlessly into one another—a key feature of the TS3 system. The ribbon windows emphasize the openness and provide light, views, and airiness—supported by the delicate load-bearing structure made from the TS3 cast resin composite system., Zürich



Residential and commercial building, Uetikon am See

Preliminary work on the new residential and commercial building at 137 Bergstrasse began in August 2024. Using TS3 technology, an open, three-story building with a steel frame is being constructed, featuring the new municipal and school library on the ground and basement levels, medical practice spaces for primary care on the first floor, and four rental apartments on the second floor., Uetikon am See



Roofing for the pool equipment building, Martigny

The municipality of Martigny built a new utility building for its swimming pool, complete with changing rooms and restrooms. The elegant and functional structure features a sleek TS3 flat roof. Without exposed beams, the roof structure appears very delicate, uniform, and light., Martigny



Canopy over the barracks, Chamblon

A PD/ID shelter featuring an extraordinary folded/angled roof became a reality at the Chamblon Barracks thanks to TS3 technology. This impressive project vividly demonstrates the wide range of possibilities offered by the TS3 system. With their design, the architects not only won the competition but also made a statement about the possibilities of modern timber construction., Chamblon



New Replacement Building for Raiffeisenbank, Gebenstorf

The new Raiffeisenbank Wasserschloss building in Gebenstorf, designed by Merlo Architekten AG, utilizes the TS3 skeleton construction method: columns and wide-span, point-supported cross-laminated timber panels form the load-bearing structure, allowing for wraparound ribbon windows that create an open and bright atmosphere. The wide-span load-bearing structure allows for flexible interior design in the lobby and the office spaces above, which are distributed across the remaining three floors., Gebenstorf



Kindergarten Expansion, Neuendorf

Expanding a preschool while it remains open, without disrupting the spaces below? No problem! TS3 solved this tricky challenge. The results speak for themselves., Neuendorf



Weber Commercial Logistics Warehouse, Seewen

Thanks to the innovative TS3 system, valuable headroom was saved in the Arthur Weber AG logistics warehouse, and the wooden structure was efficiently erected without interrupting operations. This groundbreaking construction method creates sustainable, cost-effective, and versatile buildings., Seewen



Zelgstrasse Development, Uster

On Zelgstrasse in Uster, the developer UBS Sima is creating a pioneering residential neighborhood with a clear focus on environmentally conscious and forward-looking modular construction. Originally planned as a conventional construction project with 164 apartments, it evolved—thanks to an innovative competitive design process—into a flagship project for sustainable, rapid, and low-emission construction—with minimal noise and traffic impact. With the help of the TS3 system, the residential complex is being built in record time., Uster



Expansion of Bahnhofstrasse, Busswil

The existing apartment building from the 1980s on Bahnhofstrasse in Busswil was expanded with an addition and raised by one story with a penthouse level. Using the TS3 system, the addition was able to fully utilize the building code limits without sacrificing ceiling height due to joists., Busswil



Expansion of the Care Center in Loo, Esslingen

The senior care center in Esslingen needed additional space. Thanks to innovative TS3 technology, the existing structural framework could be reused, and the building was expanded by two stories. The short construction time, the use of locally sourced wood, and the flexible interior design made possible by TS3 technology make the building a showcase project for sustainable construction., Esslingen



School Building Canopy, Goldach

Three playground shelters were built for the Goldach School, enhancing the outdoor space both functionally and architecturally. The open wooden structures provide shelter from the elements and a pleasant place to spend time, blending harmoniously into the school grounds., Goldach



Apartment buildings in Unterhub, Zollikerberg

In the apartment buildings on the lower right bank of Lake Zurich, the benefits of TS3 technology and timber construction are both tangible and visible: This construction method allows for flexible room layouts and wooden ceilings that extend from the interior to the exterior without the need for complex cantilevered slab connections., Zollikerberg



Renovation of the school complex, Grossaffoltern

The municipality of Grossaffoltern is expanding and renovating the school complex in several phases. A highlight of the project is the single-story new building, which is completely detached from the existing structure. The delicate-looking cantilevered canopy provides optimal protection for the building itself as well as for people standing beneath it., Grossaffoltern



Semiramis V-Train, Zug

The Tech Cluster Zug is home to the Semiramis sculpture, which symbolizes the connection between high-tech and nature. TS3 played a key role in ensuring that the complex wooden shells now appear to float weightlessly at a lofty height., Zug



KIJUZU, Zuchwil

Set amid attractive residential areas popular with young families, a single-story wooden building is being constructed in Zuchwil, Solothurn, to house the local daycare center., Zuchwil



Apartment Building on Bachstrasse, Buchs

A multi-family home constructed using timber framing was built on Bachstrasse in Buchs, in the canton of Aargau; the project had originally been planned as a reinforced concrete structure. TS3 technology made it possible to change the building material during the planning phase., Buchs



Feld 1 School Building, Richterswil

Due to the growing number of students, the municipality of Richterswil has decided to expand the space available at the Feld 1 school building. This will create an additional 1,542 square meters of space for classrooms, group rooms, and a music room., Richterswil



VIDIT Canopy and Shelter, Bubikon

Building for the future! Sustainable construction with a low environmental footprint—that is one of the key goals in the construction of the new Hustech Installations AG building. Thanks to TS3 technology, the large spans of the canopy over the main building were constructed with relatively slender supports., Bubikon



New Construction of the Lido Hopfräben, Brunnen

The entrance area of the Lido Brunnen has been redesigned. Large-format cross-laminated timber panels cover the entrance area. The end-joint grouting using TS3 technology allows for a wide column grid., Brunnen



Apartment building at 52 Wehntalerstrasse, Zürich

The new replacement building at Wehntalerstrasse 52 in Zurich-Unterstrass features eight apartments of varying sizes. Environmental considerations and durability are top priorities at the W52 intergenerational housing complex., Zürich



Fasanenhof Apartment Building, Frenkendorf

The first four-story timber post-and-beam structure was built in Frenkendorf. Thanks to TS3, the building—which was originally planned to be constructed of concrete—can now be built using wood. The design process for cross-laminated timber panels, which provide multi-axial load-bearing capacity, is similar to that for reinforced concrete., Frenkendorf



15 Blümlimattweg, Thun

Switzerland's first apartment building with a wooden basement featuring TS3 joints was constructed at Blümlimattweg 15 in Thun. The building also serves as the living lab for the DeepWood research project and incorporates innovative approaches to building physics., Thun



ON5 Office Building, Vancouver

oN5 is the first TS3 building in North America. The oN5 office building pays tribute to the beauty, structural performance, and sustainability of solid wood., Vancouver



Lokstadt Pavilion, Winterthur

Where locomotives and machinery were once built, a new neighborhood is now taking shape right next to the Winterthur train station. A dome-shaped pavilion roof using TS3 technology has been constructed in front of the "Krokodil" building., Winterthur



Handl Commercial Construction, Haiming Tirol

In the Austrian Tyrol, a 650-square-meter cross-laminated timber panel was constructed in just two days using TS3 technology. This is a world record: it is the largest single piece of CLT., Haiming Tirol



Apartment Buildings in Hollerach, Grossaffoltern

Four apartment buildings featuring the new TS3 technology are being built in Grossaffoltern in the Bernese Seeland. This is the world's first residential development to utilize this innovative technology., Grossaffoltern



Carport, Nottwil

A carport featuring TS3 technology and a 5-meter column spacing was added to an existing garage in Nottwil., Nottwil



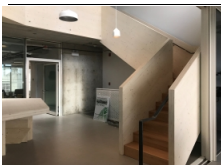
Anandia Canopy, Comox BC Canada

TS3 technology was used for the new canopy as part of the renovation and expansion of the Anandia Cannabis Center in Vancouver, British Columbia, Canada., Comox BC Canada



Hirschenbad Pavilion Restaurant, Langenthal

Where the people of Langenthal once bathed in tin tubs, the Burch family now treats you to a meal at the Hirschenbad restaurant. TS3 technology was used in the construction of the new pavilion., Langenthal



TS3 Stairs by Naikoon Contracting, Vancouver

In early January 2019, the first staircase using TS3 technology was installed. The showcase project was completed in Naikoon Contracting's new office building in Vancouver., Vancouver



Outdoor test bench at the Bern University of Applied Sciences, Biel

Supports, panels, done: In the courtyard of the Bern University of Applied Sciences in Biel stands a permanent test rig featuring the new TS3 technology and the world's first balcony bonded at the front. This clearly demonstrates the new possibilities for timber construction., Biel



Flück Holzbau AG Work Platform, Wangen bei Dübendorf

Flück Holzbau AG has installed the TW-Agil 3000, a joinery system that is unrivaled in Switzerland. To process the cut-to-size wooden components, the timber construction firm commissioned Timbatec and TS3 to build a wooden work platform., Wangen bei Dübendorf



TS3 Long-term field trial at ETH Zurich, Zürich

In recent years, the innovative Timber Structures 3.0 (TS3) technology has been developed. This technology makes it possible to bond the end faces of timber components made of solid wood, laminated timber, or cross-laminated timber. This allows for the creation of point-supported, multi-axial load-bearing panels or truss structures in any shape and size., Zürich



New Construction of the Berger Apartment Building, Thun

A four-story apartment building made of wooden elements is being constructed in the Lauenen villa district of Thun., Thun