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# TOP OF WOOD

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Members of the board, from left to right: B. Abplanalp, Th. Strahm, A. Windisch, T. Jaggi, S. Abplanalp

# High Performance in Timber Construction



Mountain Restaurant, Männlichen, Grindelwald

We at neue Holzbau AG are specialists in timber construction engineering. Our GSA®-Technology is unique and innovative. We are partners in our industry that link between the timber construction, the architects and the contractors.

Whether you prefer advisory services, engineering services or the total project package from the beginning to completion, we are happy to accommodate your needs.



High Performance  
in Timber  
Construction

Building with  
Timber Protects  
the Climate

Top Production  
Techniques





New Gstaad airport, Saanen

We specialise in designing high-performance connectors. We research new connector technologies, bonding techniques and the use of different timber types, such as hardwoods.

Hardwoods are ideal in terms of shear and tensile strength. Timber construction has never been as efficient as it is today. Now, structures, elements that span large distances, elegant arches and minimalist builds are all possible with timber.

In addition, GSA®-Technology makes aesthetically pleasing and nearly invisible connectors possible. If you have a vision for your timber project, we can help you realise it.



Tribune Kulm Hotel, St. Moritz 1)



New wine cellar, WeinStamm, Thayngen 14)

**Building since 1983.**  
**We stand for quality, innovation and reliability.**





# Building with Timber Protects the Climate

Build with timber, protect the climate. Burning timber releases the same amount of CO<sub>2</sub> that the tree took in during its growth. The CO<sub>2</sub> is bound when used for building. A total of 766 kilograms of CO<sub>2</sub> is bound in one cubic meter of spruce, while ash and beech bind 1'125 kilograms of CO<sub>2</sub> per cubic meter.

Each year we process nearly 9,000 cubic meters of timber and bind around 7'500 tons of CO<sub>2</sub>. A car emits an average of 200 g of CO<sub>2</sub> exhaust fumes per kilometre. The 7'500 tons equals around 37.5 million kilometres of exhaust fumes.

It's clear that our customers make a huge contribution to saving the climate.



Bridge Neumatt, Burgdorf 4)

We have two decades of experience in the production of glulam with spruce. In addition to ash and beech, we also produce elements in oak and robinia.



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Freilager (timber house) Zurich 2)



Cultivation and new construction Harder Kulm, Interlaken 5)



Raw laminate warehouse in Lungern 4)

**80 percent of the timber we use comes from Swiss forests. In our raw laminate warehouse, we store over 50 different elements.**

Timber is renewable, completely recyclable, and does not affect the ecological balance. New processing and connector techniques have increased the scope in which timber can be used.

Timber products such as Accoya® can even be used outdoors without a problem.



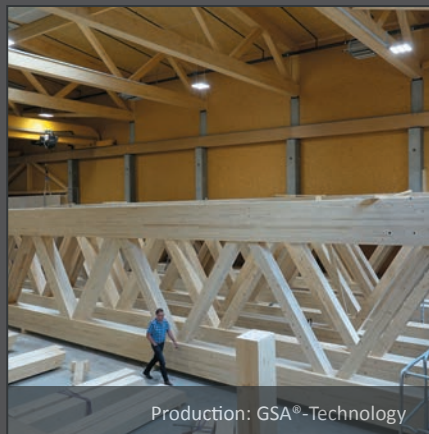


CNC joinery machine (K2i 4)

# Top Production Techniques



Glulam production 4)



Production: GSA®-Technology



CNC-Portal processing center 4)

neue Holzbau AG's CNC technique is the most modern and versatile in Switzerland.

Our multi-purpose machine concept allows each timber element to be produced optimally. From slats

to arch beams, no element is too small or big for us.

We are able to produce, to the exact millimetre, high-quality work in every dimension and form.



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Our planning department is very experienced, capable and efficient. Thanks to our direct relationship with production, we can advise you in each step of the process. You'll reap the benefits of our experience as we guide you through every project phase.

From your plans, we can undertake the engineering, shop drawings and materials list as well as production. We will organise the transport and logistics, 'pack and go', and will deliver the products to the site 'just in time'.

We will support you in the assembly and fitting. Our latest CAD/CNC technology and user-friendly plugs bring a high level of efficiency to the project.

If required, we can also provide an informative 3D visualisation for your customers. In our research laboratory, we are developing new possibilities and uses of 3D technology for timber construction engineers.



Quality control at KZ-machine 4)



Machine operator at CNC joinery machine 4)

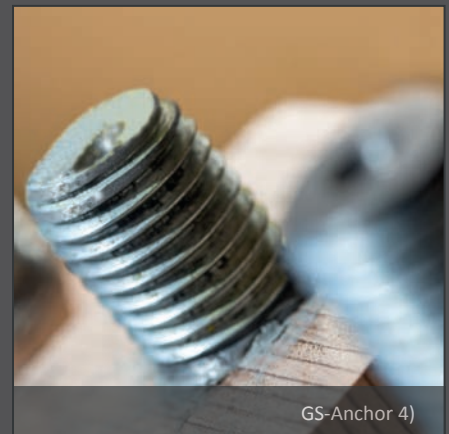
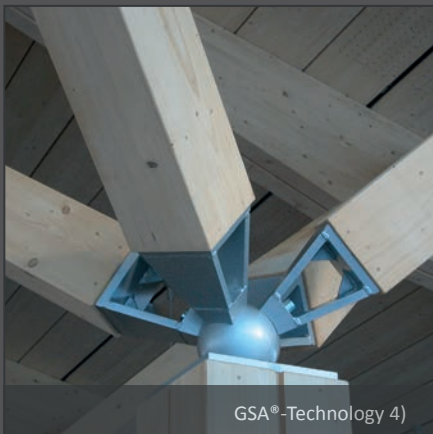
**We provide the engineering,  
the shop drawings,  
the production and the logistics – nationally  
and internationally.**





# GSA<sup>®</sup>-Technology

## The Perfect Connector System



Together with Professor Ernst Gehri, neue Holzbau AG has developed GSA<sup>®</sup>-Technology, an innovative connector system for timber projects. We have been implementing this system for two decades, and GSA<sup>®</sup>-Technology can be found in more

than 2,000 projects worldwide.

Our in-house research laboratory allows us to test specific objects and quickly present certification



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GSA®-Technology is an ideal connector system for challenging timber constructions. Three components are used: steel, timber and resin.

GSA®-Technology simplifies the work of the engineer. Ductility, rigidity and load-bearing capacity are guaranteed.

GSA®-Technology offers a number of key advantages:

- Standardized system: This means high availability and a short response time.

- Higher level of completion: This means a higher level of precision and quality, as well as lower costs.
- Architecture: Aesthetically appealing, nearly invisible connections.
- Fire prevention: The connectors are protected, thereby improving fire behaviour.
- Efficient assembly due to the plug GSA®-connector elements.



GSA®-LMV 4)



Laboratory, neue Holzbau AG, Lungern 4)



Resinating of GS-Anchor 4)

**GSA®-Technology is currently the highest performing and most complete connector system in timber construction.**



# Around the World



Community Center, Portsmouth UK

With the development of GSA®-Technology, neue Holzbau AG has established itself as a leader in timber connector techniques.

Now, large spans, elegant arches and minimalist structures pose no problem. In addition, various timber types widen the spectrum and possible applications in architecture.

The following reference objects show the diversity of our company.



Tesco Store Ystradgynlais, UK



Jesus College, Cambridge, UK



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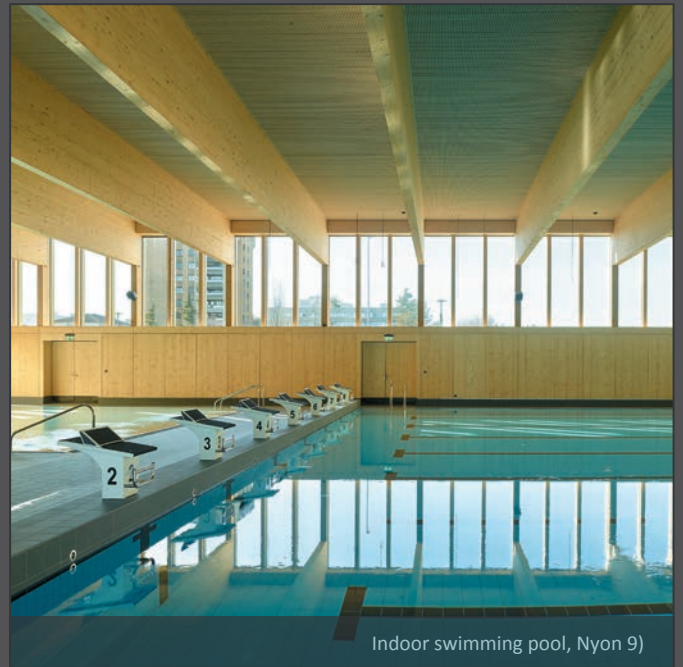
Bath world Aquabasilea, Pratteln



New interstate service area Gotthard, Erstfeld 8)



New tennis halls, Bürgenstock Hotels & Resort, Obbürgen 7)



Indoor swimming pool, Nyon 9)

**We are active in Switzerland and worldwide.**



Lower James Street, London, UK 10)





# Your Vision is Our Challenge



Double nursery school, Riehen 12)



NWCD-7, Birmingham, UK



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Valley station 3-S cable car small Matterhorn, Zermatt 11)

Mountain station 3-S cable car small Matterhorn, Zermatt 11.)

Timber as a building component has a thousand-year tradition. Today's timber construction is highly advanced. New processing and connector techniques have also increased the application possibilities.

Whatever your ideas, our engineers and technicians can help you find the best solution. Our aim is to apply the use of timber optimally.



Bridge Serata, Thalwil 13)



Sport and multi-purpose hall, Sargans



Schoolhouse North Strathfield, AUS





Quality assessment 4)

# We Work for You



Quality control 4)



Stock turnover in raw materials warehouse 4)



Plan monitoring 4)



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Warehouse 4)

We support you in every project phase. Based on your plans, we can undertake the engineering, shop drawings and materials list as well as production. We will organise the transport and logistics, 'pack and go', and deliver the products to the site 'just in time'.



Finishings 4)



Preparation 4)



Production of glulam 4)





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