



**fermacell**<sup>®</sup>

# fermacell Project & Solution

Jacob's Cross, St. Jakob in Haus, Tyrol, Austria

- Construction of the world's largest summit cross with a viewing platform
- 1,587 m<sup>2</sup> of 12.5 mm **fermacell** Gypsum Fibreboards
- Project completed in 2014

## Jacob's Cross, St. Jakob in Haus, Tyrol, Austria

### The Project

The majestic Jacob's Cross at the summit of the Buchensteinwand in Pillersee Valley in the district of Kitzbühel towers over the landscape. Almost 30 metres high, it is the world's largest, fully accessible summit cross and houses seminar and function rooms as well as exhibition areas. It was constructed in response to an initiative of Bergbahn Pillersee, a local mountain railway company that wanted to create a tourist attraction in the form of a powerful place offering spectacular views. The project received EU grants and a subsidy from the tourism fund. **fermacell** Gypsum Fibreboards allowed the fire-protection requirements to be met.

### Project Requirement

Developing an adequate fire-protection concept was one of the greatest challenges posed by this construction project, which was begun in November 2013.

The façade design, featuring larch shingles, each 50 cm in length, had to be considered in terms of the fire-protection plan.

### Solution

The fire-protection concept was developed in co-operation with **fermacell**. The solution was to install **fermacell** Gypsum Fibreboards, which scored highly on account of their superior stability, rapid installation and efficient finishing. At the same time they ensured that the building had a non-combustible lining in compliance with the required fire-resistance classification of EI-30. A total area in excess of 1,587 square metres was lined with **fermacell** Gypsum Fibreboards, 12.5 mm thick. The partial prefabrication of the wall components speeded up the construction process considerably.

As a specialist company, **fermacell** plays a truly vital part, particularly when it comes to timber constructions. **fermacell** Gypsum Fibreboards meet the high requirements regarding static stiffeners and fire-resistant linings in multi-storey timber constructions. Due to their homogeneous texture and fibre-reinforcement, these boards offer superior resistance to mechanical stresses, while possessing material and application properties that are very similar to wood. Environmental certification from the renowned eco Institute guarantees that the product is eco-friendly.



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Overview	
<b>Client</b>	Bergbahn Pillersee Ges.m.b.H; 6393 St. Ulrich am Pillersee
<b>Creative concept</b>	Toni WurZRainer, TIM GmbH, Neugasse 20, 6365 Kirchberg
<b>Design</b>	a2 architektur Dötlinger & Naglich, 6370 Kitzbühel
<b>Planning</b>	BM Ing. Josef Straif Planungs GmbH, 5760 Saalfelden
<b>Timber construction</b>	Huetz Holzbautechnik GmbH & Co KG, 6392 St. Jakob im Haus
<b>Steel construction engineering</b>	Oberhofer Stahlbau GesmbH, 5760 Saalfelden

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