

ZIEGLER GROUP

Production plant for flexible wood fiber insulation boards completed in record time

INDUSTRY

Insulation materials industry

PLACE

Hütten/Grafenwöhr, Germany

COMMISSIONING

October 2021 to October 2022

SOLUTION

Planning and implementation of a production line for flexible wood fiber insulation boards

CUSTOMER

ZIEGLER GROUP is an owner-managed business group with over 3,200 employees at 34 locations and activities worldwide. The group is active as a global player in its core business sector, wood processing, in-house construction, logistics, mechanical engineering, gastronomy, and decoration. What connects activities in all sectors is the vision of making it possible to build intelligent wooden houses that are 100 % sustainable.



INITIAL SITUATION

To cover the entire value chain on the way to a 100 % ecological wooden house, in 2021 ZIEGLER GROUP decided to start producing sustainable insulation boards made from wood fibers. Thanks to its know-how in wood processing and using raw materials of value from its sawmills, the company could create enormous synergies and further improve its environmental performance in this context. With the establishment of naturheld GmbH, ZIEGLER GROUP laid the foundation for this expansion and planned to enter the market in record time by building a new production plant within one year. To meet that ambitious goal, the company teamed up with renowned industry partners, such as Grenzebach.

» In Grenzebach we have found a highly competent and experienced partner who supplied us with the complete machinery and the necessary know-how and took care of the installation work up to commissioning of the plasterboard facility. «

Stefan Ziegler

Managing Director of ZIEGLER GROUP



CHALLENGES

The new plant was to be equipped with two production lines with a total capacity of 2 million m³/year, with the production of flexible insulation boards alone accounting for 1.5 million m³/year. Grenzebach was awarded a contract for the supply of the complete production line. Three months before the construction work for the mega-project began, the entire planning had to be revised due to a change of location. In the view of the trade press, completing con-

struction within one year as planned was almost impossible. Moreover, operational and construction planning had to be closely coordinated with establishing the second production line. And finally, the COVID-19 pandemic resulted in shortages of workforce and materials during the construction phase.

IMPLEMENTATION

Despite the tight schedule and the many challenges encountered, Grenzebach completed all work within

one year and handed over a cutting-edge production line for wood fiber insulation boards that set standards in many areas. For example, the line features a new fiber blending system which provides higher capacities and better blending results than existing systems. The curing oven is an entirely new development, and the highly energy-efficient production line offers maximum flexibility regarding thickness, dimensions, and product characteristics. It provides the highest board quality and maximum efficiency.

BENEFITS

Powerful

The capacity is 6 t/hour, which is among the highest on the market, and the output can be increased up to 10 t/h to meet market demands.

Sustainable

The line is designed to be energy-efficient. The energy it requires is generated by climate-neutral combustion of the owner's wood waste.

Flexible

The line's high flexibility allows a wide range of products with different thicknesses, dimensions, and properties to be produced.

CONCLUSION

With its production line from Grenzebach, naturheld GmbH now has one of the world's largest production locations for wood fiber insulation materials. It takes a big step forward towards a 100 % ecological wooden house. Due to Grenzebach's industry expertise and the efficient combination of product and equipment know-how, a production line was set up whose performance and capacity sets standards and meets the latest requirements in raw material, energy, and ecology.

Grenzebach BSH GmbH

Rudolf-Grenzebach-Straße 1
36251 Bad Hersfeld
Germany
+49 6621 81-3000
gypsum@grenzebach.com
www.grenzebach.com

