

Economical as a matter of principle

Great energy savings with high quality drying

Over the last three years, the company Ziegler Holzindustrie has been relying more and more on Mühlböck's Type 1306 Pro dry kilns. Decisive factors for this choice were positive experience, good advice and the fact that promised performance levels were achieved in terms of energy efficiency and drying quality.

At *Ziegler Holzindustrie*, based in the German town of Plössberg, 20 dry kilns from Mühlböck, Eberschwang are already in operation. "Two years ago, we purchased our very first dry kilns 1306 Pro for our sawmill in Plössberg", explains authorised representative Andreas Sandner. Eight of them have now been running since 2018. An order for another four of this type of dry kiln has just been placed. Commissioning is scheduled for 2021. "Due to the favourable experiences to date, to the fact that all promised performance levels have been achieved and to the good advice from Mühlböck's German sales partner Lauber (Alfdorf/Germany), we have decided once again to purchase this type of equipment", emphasizes Sandner.



Double energy saving

The two biggest cost factors involved in the drying of lumber are the consumption of thermal and electrical energy. Another decisive factor in the assessment of overall cost-effectiveness is the quality of the drying process. With the 1306 Pro drying system, according to their own data Mühlböck has developed a system that outperforms all other comparable systems in terms of energy savings and the quality of the drying process. "The aim of our innovation is to make our customers more successful and even more competitive. For this, systems are needed that are designed specifically to meet the current as well as the future requirements of our customers", explains CEO Richard Mühlböck.

The unique layout of the 1306 Pro dry kiln enables a reduction of both its heat demand (up to 25%) as well as its power

consumption, without any restrictions on the drying process. This is made possible in part by a Heat Recovery system that works in conjunction with the fans in the supply and exhaust air unit to achieve greater efficiency. This on-board Heat Recovery system with its innovative supply and exhaust air system ensures that 100% of heated air is actually used in the system to dry lumber.

Optimised airflow

The active supply and exhaust air ventilation system, in conjunction with streamlined air spaces in the mezzanine ceiling and deflection areas, optimised distribution of fans and vertically installed heating coils deliver an even airflow across all the lumber stacks in the 1306 Pro model. "In collaboration with external specialists and through a large number of airflow simulations, the Mühlböck R&D department

was able to develop a solution that delivers an excellent air distribution through the entire lumber stack cross section, which in turn ensures uniform drying", states a Mühlböck specialist as he outlines the benefits of the system.

The dry kiln 1306 Pro can be configured precisely to suit customer's needs in a tailor-made way.

"These dry kilns are remarkably energy-efficient and have also been adapted individually to suit the demanding requirements relating to noise emissions", underlines Sandner.

"We wish to offer our customers solutions that on the one hand are cost-effective while on the other will still be operating without any problems in 20 years from now, in a resource-conserving manner", adds Mühlböck.

The 'From Tree To House' vision

The Ziegler Group has a total of 1500 employees at 18 locations. "With the From Tree To House vision, our Group has set itself up strategically to process timber all the way from the sawmill to full-service provider", emphasizes Sandner. Ziegler produces lumber as well as gluelam and laminated plywood. The Group operates in the house-building sector (timber frame construction) and operates its own fleet of vehicles, with 150 trucks and plans to engage in pellet production in 2021 (200,000 tons p.a.). By 2022, Ziegler will be producing prefabricated houses, in which it has already invested € 220 million.

The dry kilns 1306 PRO save up to 25% at the heating requirement and reduce the power consumption.



The active supply and exhaust air units are very efficient with the heat recovery system.

