

REASONS FOR THE TABIHAUS® SYSTEM



At TABIHAUS®, we are committed to **Construction 4.0**.

Concept of the construction site as the installation point, not as the place of manufacture of the system. Controlled manufacturing process with the highest standards of quality and process control, which provides perfect dimensional control of the product.

Extreme lightness. Advantages of lightness in construction. Resistance to seismic and structural movements. High speed of work execution. Absence of high load cranes. Reduction of injuries to workers.

Dry construction. Elimination of water inside the building. Elimination of the future risk of dampness. TABIHAUS® is made with Epsom Salt, a natural desiccant. No bacterial proliferation. Elimination of mortar silos.

XPS URSA 100% obtained mainly from food industry waste, we contribute to sustainable architecture. In addition, there is almost no waste on site, and the waste is non-toxic, and at the end of its life cycle, 100% recyclable.

CO2 footprint. Cold production process and low temperature drying. We avoid product fragility and help to reduce the CO2 footprint in the construction sector.

Extremely simple to install. No high level of operator qualification is required for correct installation of the system. Frontal screwing and sealing of the panel edges.

Very high thermal insulation. The TABIHAUS® panel is composed of a highly insulating Epsom Sal board ($K=0.18$ W/mK), on an XPS ($K=0.035$ W/mK). The result is minimum transmittances in minimum thicknesses. Gain in useful square metres of living space.

Acoustic insulation. The system provides a $R_{s,w} = -22$ dB, which, when implemented with mineral wool, makes it possible to achieve very high acoustic reductions, exceeding the maximum requirements of building regulations.

Refractoriness of 4 hours. Almost no linear thermal expansion (0.047%).

Excellent thermal behaviour, both to stress and thermal shock.

Highly resistant. Combines lightness with very high resistance. Excellent behaviour against hard and soft body blows and scratches. Very high results in bending and compression tests.

Very high load-bearing capacity. Allows the subsequent installation of metal systems for ventilated façades, as well as the installation of gutters, aerials, air-conditioning equipment, etc.

Permeable to water vapour. Impermeable to water and air, but very permeable to water vapour with a $\mu = 54$.

Support for architectural firms through the 'exclusive architecture area' on our website: www.tabihaus.com, where you will find our own software for modelling and completion of the various building regulations. In addition, PDF drawings and CAD's of the construction solutions, BIM implementation, and certificates of the system and its components. In-house architecture and engineering departments to obtain the best solution for each project.

Support for promoters. TABIHAUS® is the end of budget deviations. Our programme will tell you exactly the number of units to be used in each project, whether panels, polymer or fasteners.

Support for construction companies. We instruct the installers, either on site or at our facilities. Our programme will also provide you with a cutting and assembly plan of each panel, so that you know exactly where and how they should be installed.

Shall we work?