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ONDABLOCK: ceramic innovation for more efficient, industrialised construction

Actualidad Empresarial | 26/11/2026 | 20:01



The construction industry is undergoing a transformation driven by the search for faster, more sustainable processes adapted to new market demands. Industrialisation is playing an increasingly prominent role, encouraging the adoption of solutions that simplify on-site work and help improve productivity in both new construction and renovation projects.

Against this backdrop, Castellón-based company SMART TILE, S.L. has developed ONDABLOCK, a dry modular system that changes the conventional method of installing porcelain tiles, eliminating the need for mortar and cement-based adhesive to fix them to the substrate. It offers an alternative to traditional methods through technology that combines recycled materials, mechanical assembly and ease of installation.

Modular technology that simplifies installation

The operation of ONDABLOCK is based on a recycled thermoplastic polymer base attached to the back of each ceramic tile. This structure has a wave-shaped geometry designed to facilitate mechanical assembly between modules, allowing them to be joined precisely without conventional adhesives. In this way, the technology aims to simplify certain operations and reduce the time needed to complete the work.

One of its key features is its rapid installation, with rates that, according to the company, can reach between 25 and 30 square metres per hour, depending on working conditions. This can shorten project timelines, reduce certain auxiliary tasks and make project planning easier, particularly where completion time is an important factor.

Another application is in renovation work. The system can be installed directly over existing coverings, provided they meet the necessary requirements for stability, evenness and strength. This avoids certain demolition tasks, reduces the amount of rubble generated and helps lessen the disruption associated with construction work. It also makes localised repairs easier, as damaged tiles can be replaced individually without removing large sections of flooring.

Innovation expands the possibilities for the ceramic industry

ONDABLOCK's versatility allows it to be used in a variety of spaces, from private homes to hotels, offices and commercial premises. Its development reflects an evolution in the ceramic sector in which innovation is no longer limited to finishes, formats or designs, but also extends to the methods used to install materials.

At the same time, the project is assessing its performance through tests relating to thermal behaviour, sound insulation, impact resistance and load-bearing capacity. Its compatibility with radiant heating systems is also being studied, an important consideration for expanding its potential use in different construction projects.

The emergence of alternatives such as ONDABLOCK reflects this new technological dimension of the ceramic industry, where the properties of porcelain tiles are complemented by installation methods adapted to the needs of the building sector. In this context, porcelain tile installation is incorporating modular solutions that aim to simplify work, optimise resources and offer new possibilities for both construction and renovation.

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