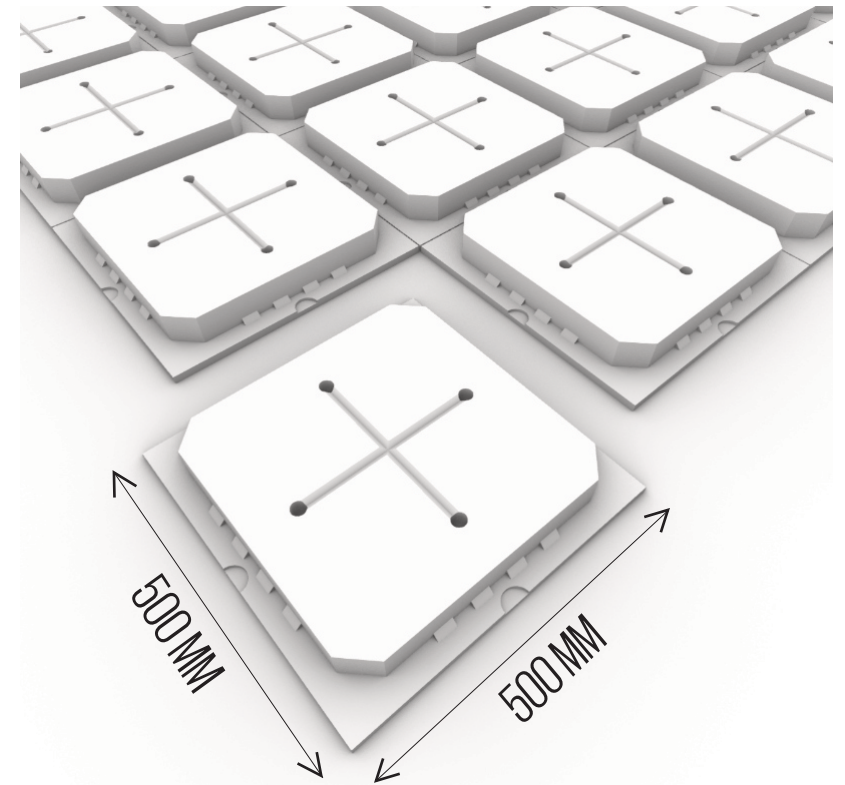
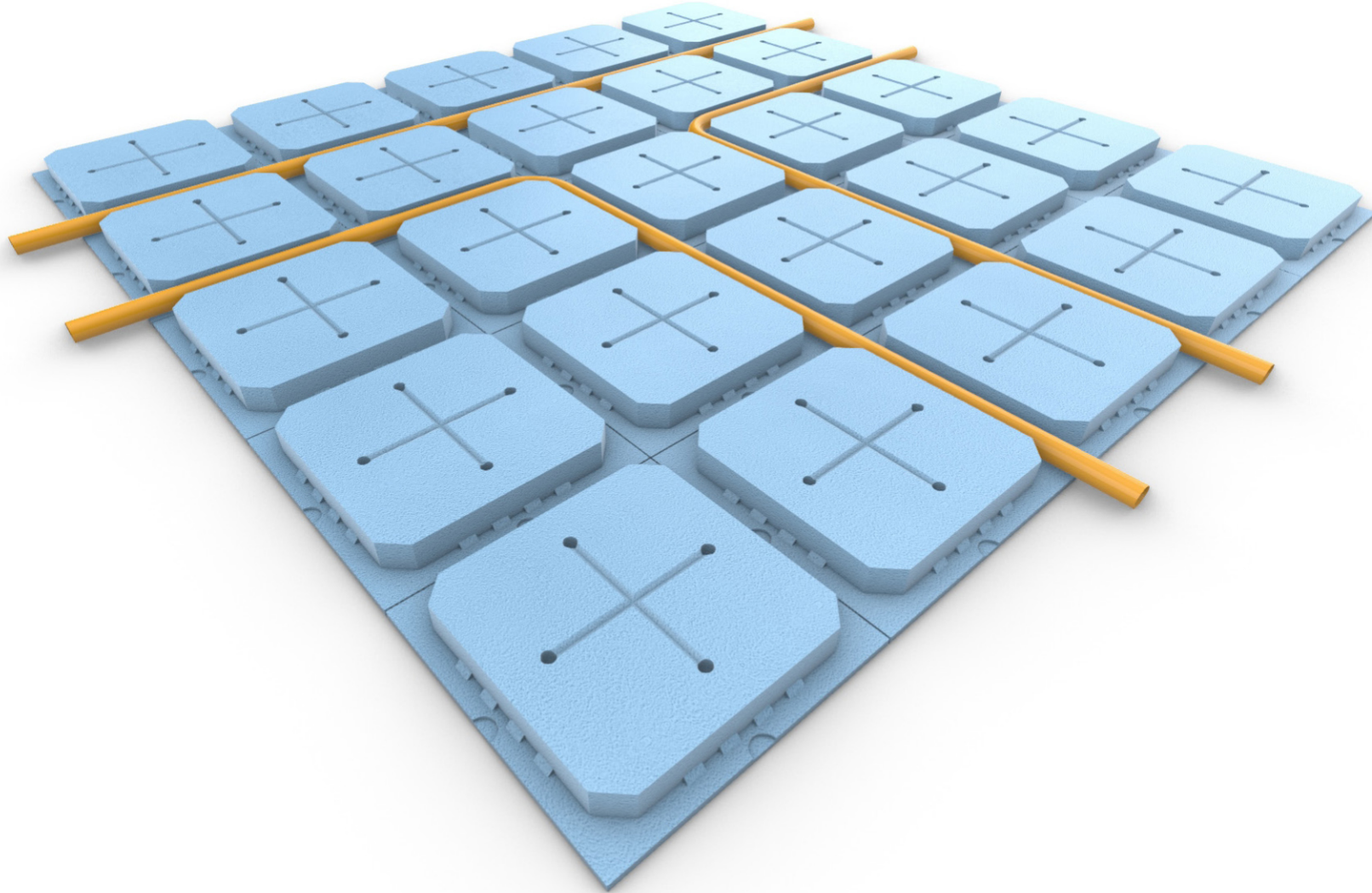


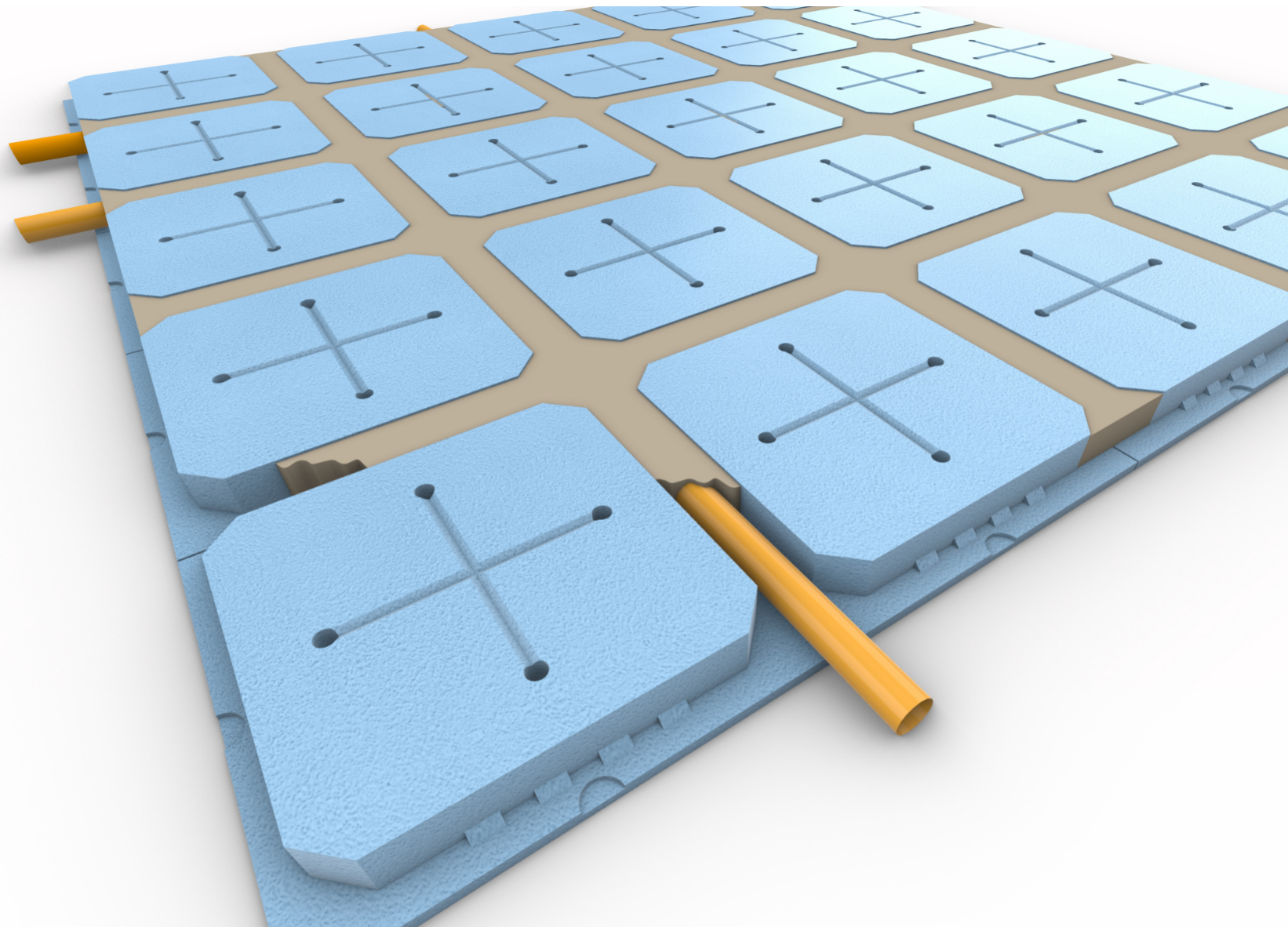
The purpose of the FLOORXTRA® patent is to make more efficient the current complex and costly process of creating the subfloor — the first screed that covers the systems and is in direct contact with the reinforced concrete slab. The conventional method involves the use of heavy materials that are difficult to handle, prepared on-site, and require skilled labor for installation.

FLOORXTRA® is a lightweight and durable single-component solution, easily installed by non-specialized labor and without the use of dedicated tools or machinery. It is easy to transport thanks to its low weight and reduces installation times by over 50%, while keeping the work area clean and accessible throughout the process.





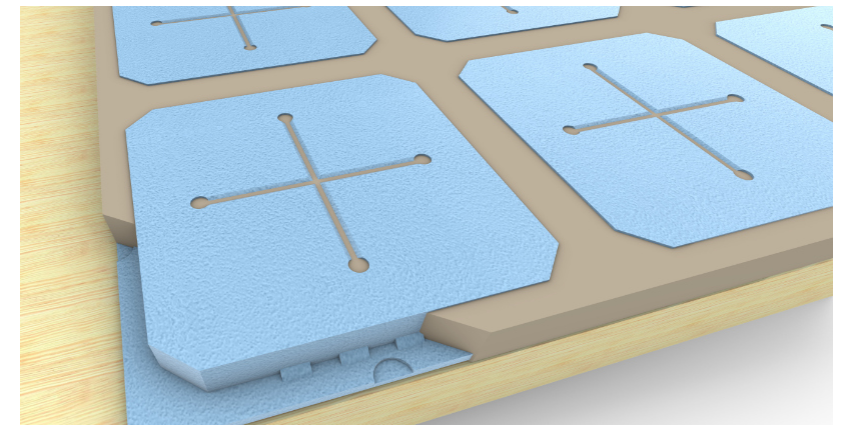
The basic FLOORXTRA® module is a molded polystyrene element with a density not lower than 35 kg/m³, resistant to foot traffic. It can be laid mainly dry or glued to the slab, depending on the needs and characteristics of the construction site. The resulting empty spaces between the adjacent elements will accommodate the systems and will later be filled with lightweight mortar.

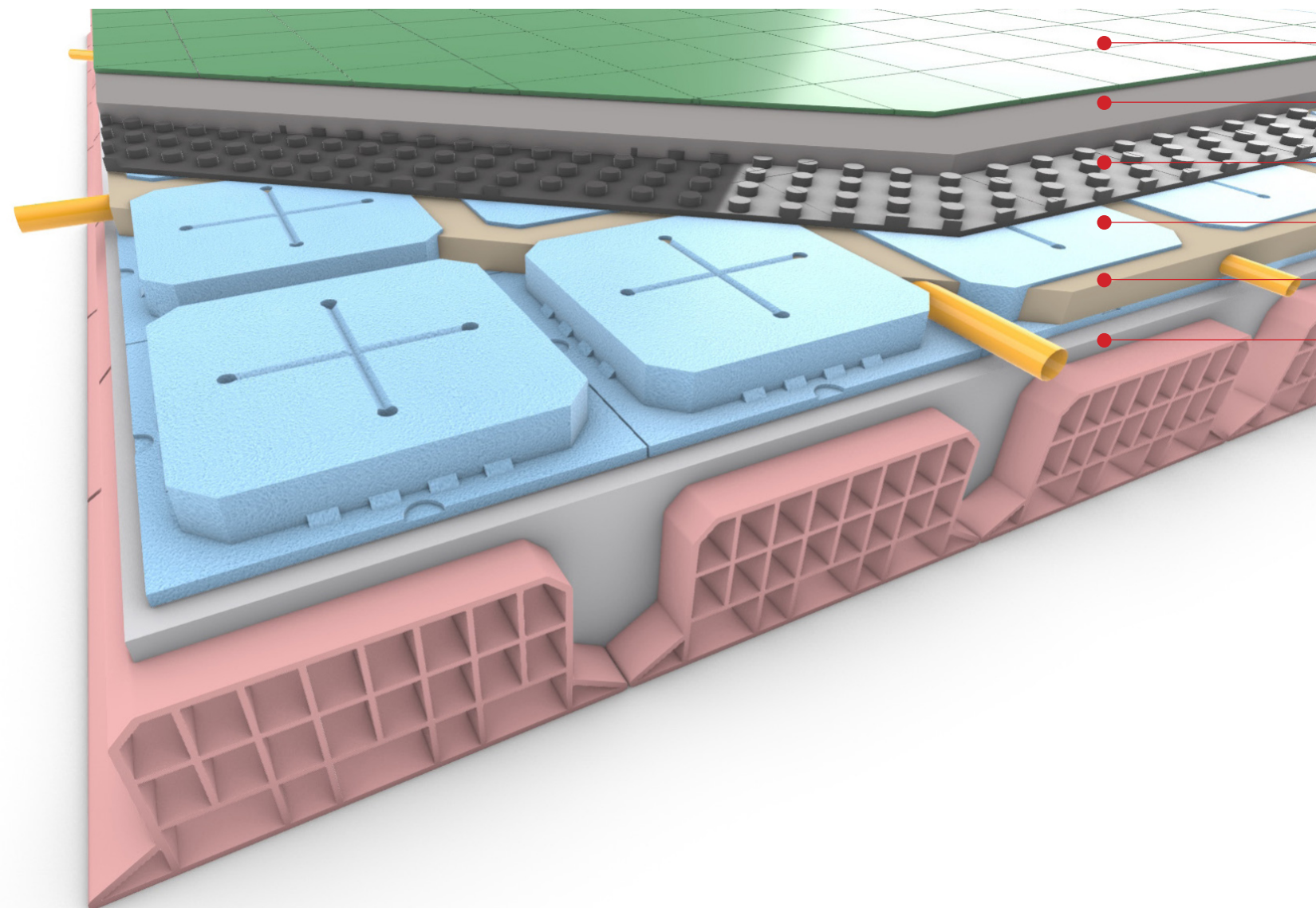


The orthogonal grid obtained with the mortar embeds and locks the elements and systems in place, creating a solid, flat horizontal support.

In cooperation with the subsequent subfloor layer, and given the small spacing between the hardened mortar courses, this structure will provide overall load-bearing capacity equal to that of a traditional subfloor.

FLOORXTRA® therefore proves suitable for any accidental load foreseen on all types of finished slabs. The considerably lower weight of the subfloor layer made with FLOORXTRA® allows a reduction in the structural requirements of the slab, since the structural load becomes proportionally lower. This feature makes it particularly advantageous for floors in buildings with wooden load-bearing structures, often eliminating the need for a reinforced concrete topping.





Finished flooring

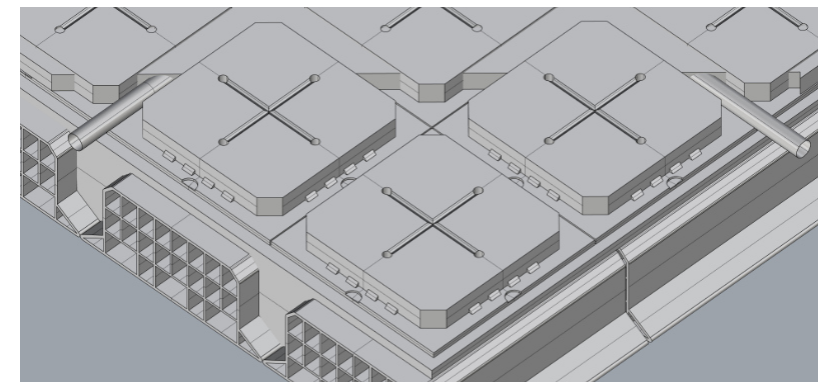
Second screed (final subfloor)

Radiant panel heating/cooling system

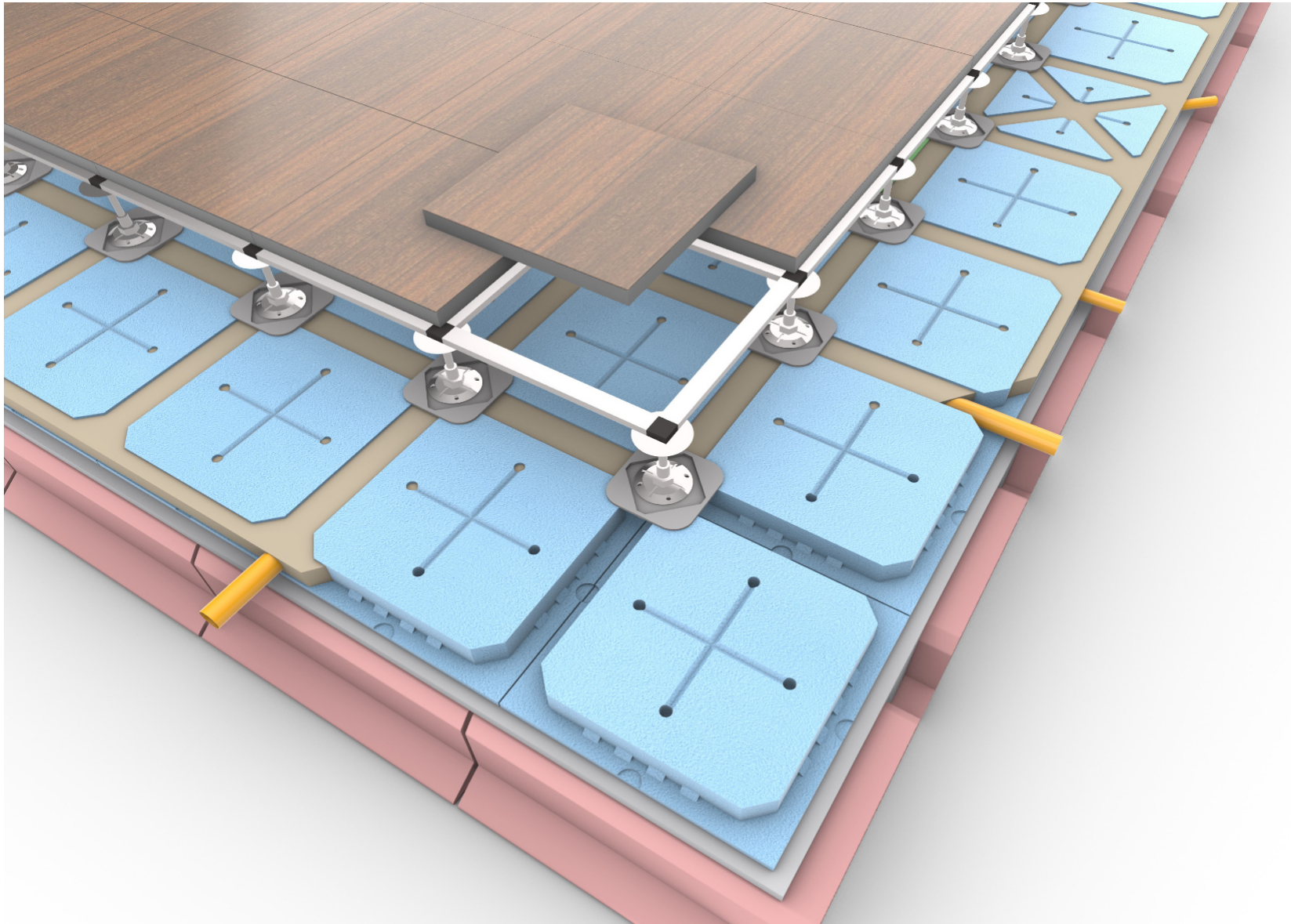
FLOORXTRA® panel

Lightweight mortar

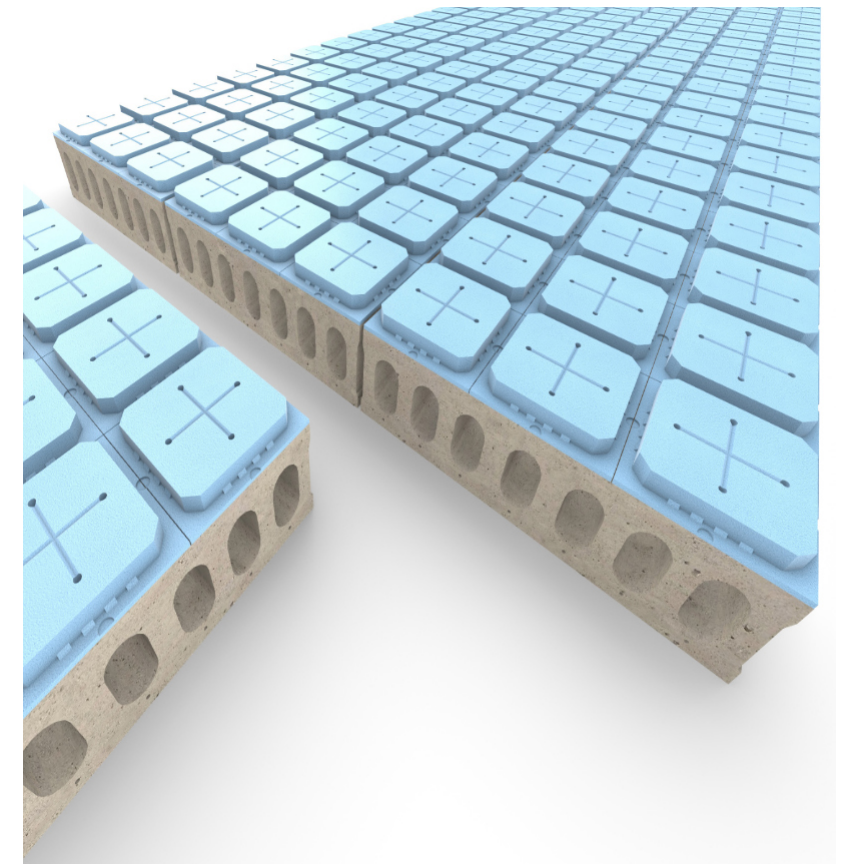
Reinforced concrete slab

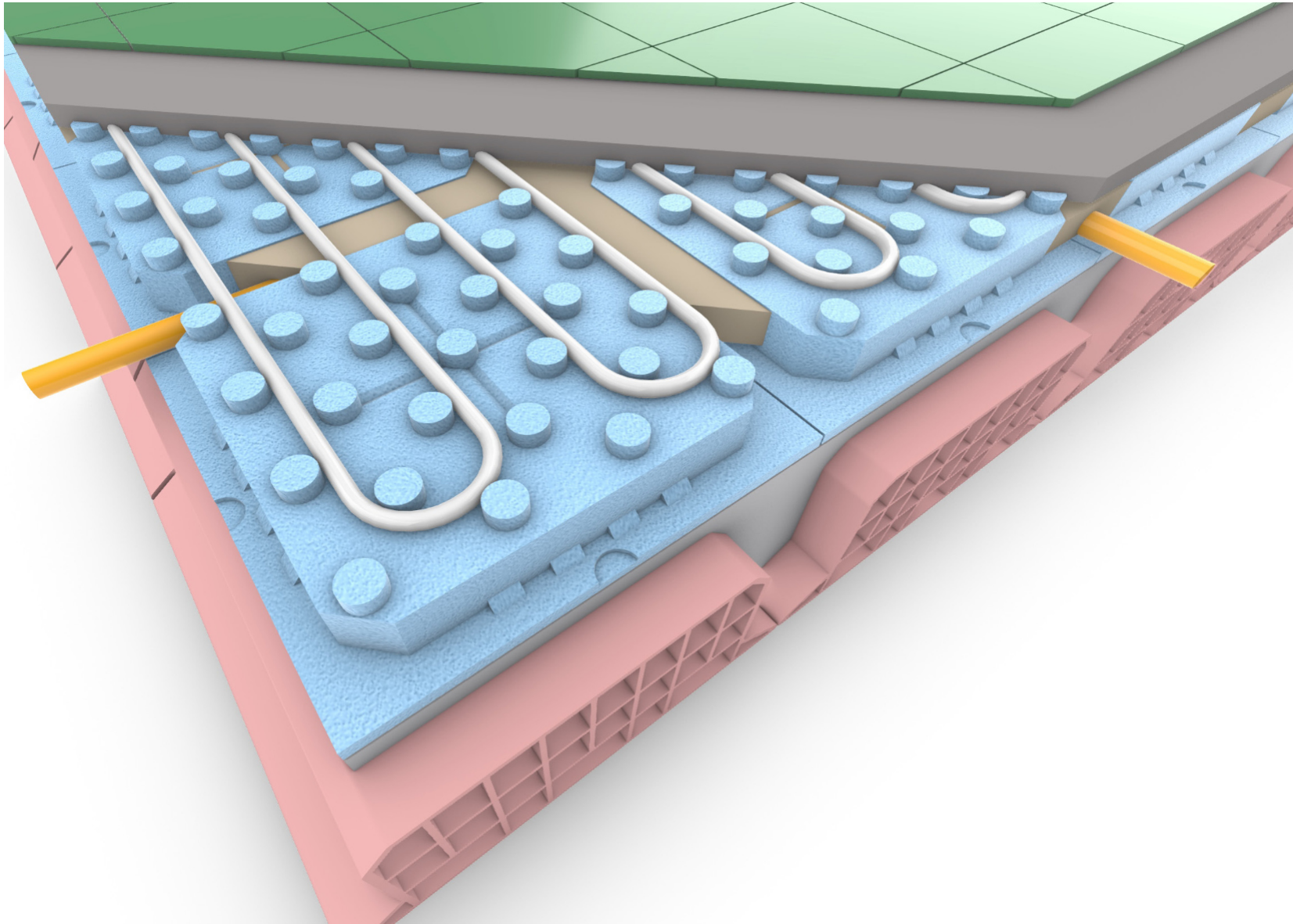


FLOORXTRA® thus proves effective both technically and economically compared to the conventional process currently in use. Its simplicity and the substantial benefits it offers make widespread adoption of this new and innovative method plausible among professional operators in the sector.

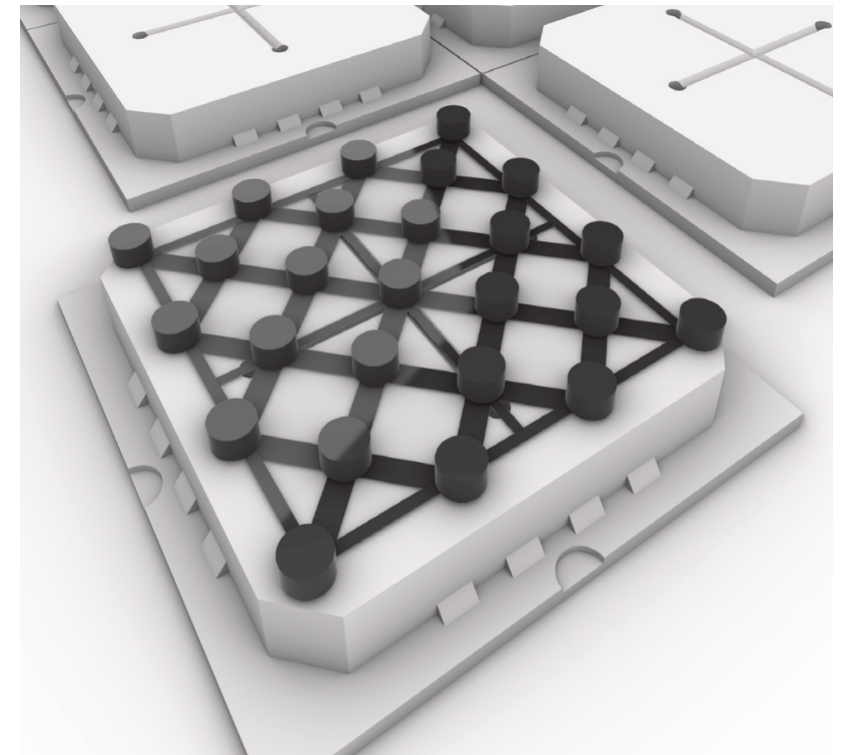


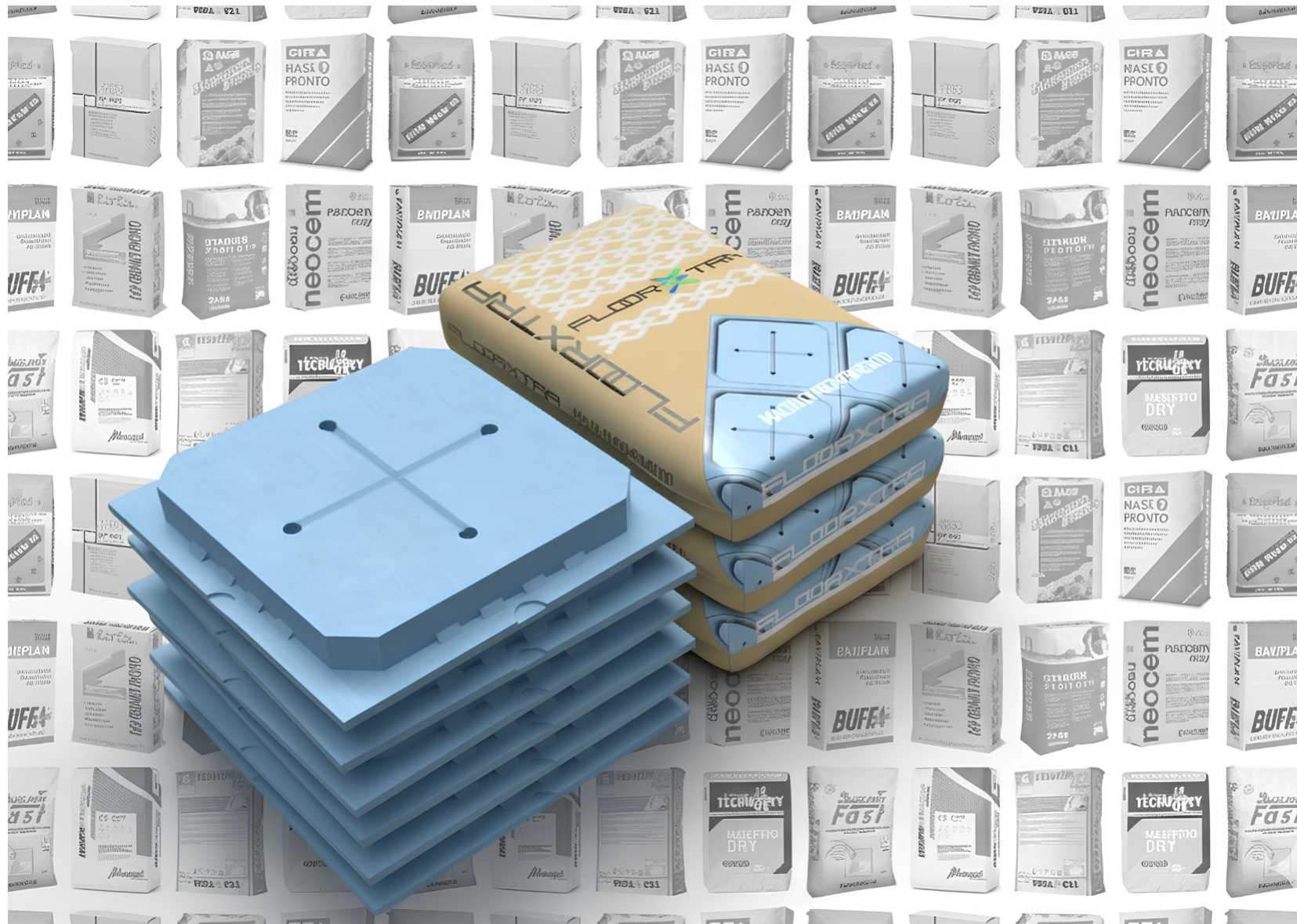
For the substantial Italian market, additional utility patents may be associated with the FLOORXTRA® invention patent – for example, for floating floors or to complement prefabricated slabs – in order to meet construction needs in non-residential buildings as well, thereby expanding its market reach.





It is also conceivable to associate accessory polymer components, either as overlapping elements or with a specially shaped surface designed to directly accommodate pipes for radiant heating/cooling systems. In a single industrial product and a single installation operation, the subfloor layer, radiant insulation, and heating/cooling layer could all be achieved, drastically reducing on-site execution times and related costs.





The images of the various products are used solely for explanatory purposes and not for comparison. Images, trademarks, and logos are the exclusive property of their respective owners.

Following the commercialization of the primary polystyrene element, a lightweight mortar marketed under the same brand could be introduced, further increasing revenues.

FLOORXTRA® would stand outside the existing competitive framework, creating its own unique segment in which, as of today, it would be the only product offering an alternative to standardized solutions — addressing the same need but with different materials and methods, achieving significantly improved results.

The main advantages are reduced installation times and the use of general labor already present on site — benefits that translate into substantial economic returns for the end user.

The ISTAT C18 report (www.istat.it/it/files) and other sources (notably ANCE: ance.it/temi/studi-e-analisi) estimate the potential market at over ten million square meters annually in Italy.

Even with minimal initial market penetration, FLOORXTRA® could represent a considerable business



The idea for the FLOORXTRA® patent stems from daily on-site experience, where it becomes evident that many processes, still today in my view, remain too anchored to traditional methods and systems — approaches that are increasingly outdated considering the new materials, innovative industrial processes, and advanced technologies currently available.

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FLOORXTRA
THE SUBFLOOR SMART SOLUTION

