

New plugin for the calculation of the positions of the securing anchors in sandwich and core-insulated double walls

The ThermoPin® is a securing anchor made of glass fibre reinforced plastic (GRP), which connects the facing and load-bearing layer of core-insulated precast concrete elements such as sandwich walls and core-insulated double walls. It penetrates the insulation. ThermoPins to be installed horizontally absorb horizontally acting forces, ThermoPins to be installed diagonally absorb vertical forces, e.g. resulting from the dead load of the façade. Since it conducts practically no heat, material-related thermal bridges are meaningless with this securing anchor system.

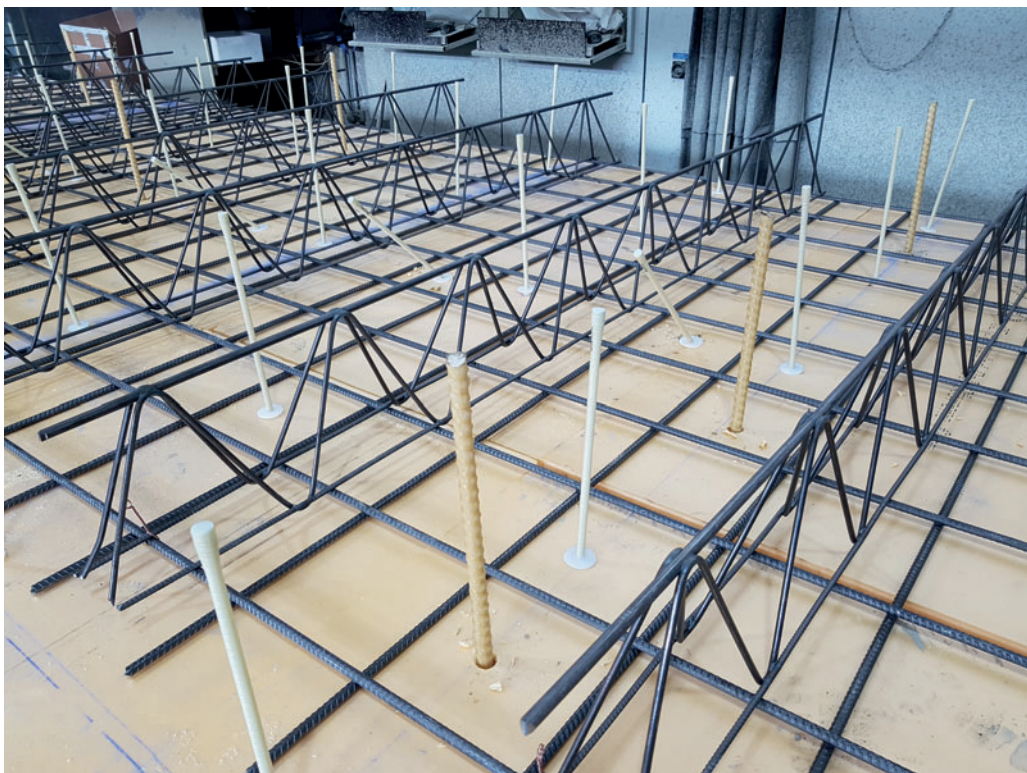
Low installation costs due to quick and easy installation

During production, the ends of the securing anchor are simply concreted into the facing and load-bearing layer. Since it

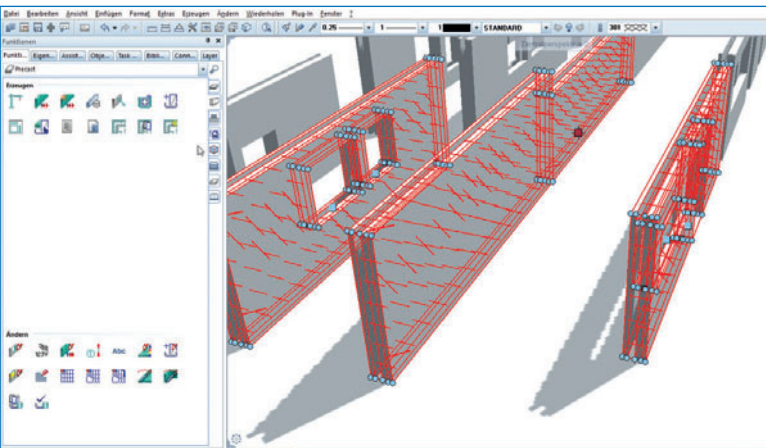
does not have to be fastened any further, installation is quick and uncomplicated. The fixed plastic ring ensures correct installation and ensures that the penetration point in the insulation is sealed and concrete cannot flow into the opening. Thus, the bar ultimately disappears into the concrete and is not visible on the surface. The result is perfect surfaces without visible flaws. Due to its corrosion resistance, the ThermoPin is also suitable for use in narrow structural elements.

Advantages of the ThermoPin planning software

The placement of the ThermoPins follows certain rules, which result from the building authority approvals of the system. To ensure that the product can be installed properly, the number and type of ThermoPins to be used must be calculated. So far, this time-consuming process has been carried out manually. By integrating the ThermoPin into the PLANBAR software



ThermoPin – Production of a core-insulated double wall with sandwich balustrade



Calculation of the positions of the securing anchors for the selected elements and automatic placement of the ThermoPins in PLANBAR

(Version 2020), users of this software can now have the ThermoPin drawn fully automatically into their precast concrete parts. The software can quickly plan the ThermoPin not only into individual panels, but also into the relevant walls of entire projects, so that the customer only has to order the matching ThermoPins. Window and door openings, etc. are taken into account. The complete process - from drawing to manufacturing the wall - has thus been enormously accelerated.

Within the software, individual ThermoPins can be moved or deleted under the responsibility of the user. The ThermoPin-Tool thus facilitates proper and professional work with the ThermoPin. ■



Learn more about how the ThermoPin planning software works in a video.



FURTHER INFORMATION



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