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PRESS INFORMATION

PREFABRICATION IS KEY

Wieland Electric supports efficient processes in modular construction with pluggable electrical installation systems

Modular construction is the answer to the current challenges of the construction industry. Given the shortage of skilled workers and cost pressures, it is important to avoid time-consuming activities in the factory and on the construction site. For the electrical installation trade, this is achieved with the help of serially prefabricated, pluggable system components such as those provided by Wieland Electric as part of its PREFAB solution portfolio. This means that the electrical installation can already be integrated into industrial prefabrication, which saves time, costs, and personnel. Thanks to their plug & play functionality, the electrical installation systems enable quick, easy, and safe installation from the distributor to the socket, thus contributing to highly efficient construction processes.

Efficient processes thanks to pluggability and prefabrication

The core elements of Wieland PREFAB® are the gesis® and RST® connector systems, which have already proven themselves in conventional building construction and have been designed, continuously developed and optimized in accordance with standards. Special tests have now ensured that the PREFAB gesis® CLASSIC and RST® CLASSIC series are suitable for industrial, modular building production. Both systems are the only ones on the market to date that can be installed without hesitation in areas that are subsequently inaccessible, such as walls, insulation material or concrete.

Just as in conventional construction, the installation connector systems also achieve cost-effective electrical installation in modular construction, with time savings of 70 percent and cost savings of 30 percent. They are characterized by standardized interfaces for the electrical installation and building automation trades and have mechanical and colour coding that reliably prevents mismating. In addition to a large number of standard components, the Wieland PREFAB® system portfolio also includes the option of individual product configurations, such as specific cable lengths, so that scalable, customer-specific infrastructure solutions can be realized.

Different prefabrication stages

Depending on the degree of prefabrication at the construction company, the PREFAB solution package can be customized to meet the requirements of the modular construction process. With pluggable solutions and sophisticated systems, Wieland Electric makes it possible to pre-install the electrical infrastructure in the precast factory so that the modules and wall sections only need to be positioned on site and connected according to the plug & play principle. Alternatively, Wieland Electric pre-assembles the system components for the electrical installation at the factory so that they only need to be laid in the prepared installation zones of the building elements and plugged together on site. This reduces both the installation work on site and the time pressure, and the electrical trade is considerably relieved on site.

Modular solutions for modular buildings

Whether schools, hotels or residential buildings - Wieland PREFAB® solutions are suitable for a wide variety of building types and demonstrate their strengths in all modular designs. With the standardized interfaces of gesis® and RST®, PREFAB becomes a modular system. The prefabrication of the electrotechnical infrastructure can even be extended to switch and socket units. Detailed, customer-specific system planning by Wieland

experts in advance also helps to better structure the construction site process. Projects can therefore be implemented faster and with better quality.

In addition, the PREFAB portfolio from Wieland Electric includes plug-in, pre-installed and tested sub-distribution boards for the electrical infrastructure in star or bus topologies. In conjunction with the gesis® or RST® installation connector system, the distribution boards are also pre-installed and tested at the factory with all fuse and control devices ready to plug in, so that they can simply be connected on site using plug & play. This not only avoids installation errors and interface problems for the trades involved, but also eliminates the need for time-consuming installation work on the construction site.

IMAGEMATERIAL



For smooth and cost-efficient construction processes: Wieland PREFAB® significantly increases the degree of prefabrication of modular buildings. (Image: Wieland Electric)



Plug-in electrical installation solutions, such as those that Wieland Electric has been offering for decades in the building sector, also enable rapid installation in modular construction and contribute to greater planning reliability. (Image: Wieland Electric)



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PRESSCONTACT

Magdalena Montagna

Content Marketing & Communication

Phone: +49 (951) 9324 - 316

E-mail: magdalena.montagna@wieland-electric.com

ABOUT WIELAND ELECTRIC

Wieland Electric, founded in Bamberg in 1910, is the inventor of safe electrical connection technology. Today, the family-owned company is one of the leading suppliers of safety and automation technology and has been the global market leader in the field of pluggable electrical installations for building technology for over 30 years.

Wieland Electric assists customers with on-site support all over the world as a capable service partner and solution provider. This is possible thanks to around 1,700 employees and subsidiaries as well as sales organizations in over 70 countries. In addition to Wieland Electric GmbH, STOCKO Contact GmbH & Co. KG has belonged to Wieland Holding since 1998.

The company's core industries include mechanical engineering, wind power, intralogistics and HVAC, as well as building and lighting technology. The broad portfolio includes components, products, and solutions for electrical installation, connection technology, power distribution, safety technology, and the control cabinet. In addition, Wieland Electric offers an extensive service and training program. With cross-industry experience, a great product diversity and numerous service offerings, the company has consistently developed from a component supplier to a solution provider in recent years.