

HUECK PRESENTS AN EXTENSION OF THE INNOVATIVE TRIGON FS FAÇADE MODULAR SYSTEM: "ULTRA SAFE" - THE FIRE PROTECTION FAÇADE HUECK TRIGON FS 050/060 FP30

"Ultra slim - ultra strong - ultra flexible" has been joined by "Ultra safe". With the Hueck Trigon FS 050/060 FP30, the aluminium systems provider Hueck has extended the successful façade design Hueck Trigon FS with a new, certified fire protection façade system. Like the entire Trigon modular system, this fire protection construction also meets the highest demands for flexibility, versatility, economical processing, energy efficiency and sound insulation.

As an extension of the Hueck Trigon FS façade design, this new Hueck Trigon FS 050/060 FP30 fire protection façade forms part of the modular system. "The newly developed fire protection façade is based on the same constructive basis and enables an identical appearance with a fire resistance class of 30 minutes", explains Johannes Driessen, Hueck Product Manager for the façade sector. "Apart from a few necessary modifications, we consistently continue the proven concept of our modular Hueck Trigon FS system. At the same time, we have learned from the valuable experience of our previous fire protection façade design Hueck Trigon 50 FP30. Its advantages have been combined with the innovative aspects of the Hueck Trigon FS façade series to create the new Hueck Trigon FS 050/060 FP30."

Constructive principle

"With the new fire protection façade, we not only fulfil a frequently expressed customer request, but we also continue the concept of our innovative Trigon FS façade design," explains Driessen. Hueck Trigon FS 050/060 FP30 is available in 50 and 60 millimetre elevation widths and can be configured as a mullion/transom or transom/transom construction. The transom profiles are offered in dimensions from 84 to 224 millimetres; the mullion profiles are available in 85 to 225 millimetres. Furthermore, the extensive profile range is complemented by pressure plates and cover profiles, as well as split mullions.

Ultra safe

The new fire protection façade Hueck Trigon FS 050/060 FP30 has been tested according to DIN EN 1364-3 and achieves 30 minutes of fire resistance. According to its classification under DIN EN 13501-2, it meets the requirements E 30, EW 30 and EI 30. In addition, fire exposure from both sides has been proven. Moreover, the height and width of the façade are unlimited; the maximum fixing distance is 6,000 millimetres and the maximum mullion spacing is 3,022 millimetres.

Ultra strong

The Hueck designers also designed the new façade to be extremely adaptable in terms of load capacity. Sophisticated structural engineering allows for infill weights of up to 1,000 kilograms and thus pane sizes of maximum 1,500 x 3,000 millimetres, optionally in portrait or landscape format. Both monolithic and insulating glass from two glass manufacturers can be used.

Ultra flexible

With its advanced fire protection systems, Hueck System GmbH & Co. KG represents certified fire protection solutions up to the highest fire resistance class in the construction industry. The Hueck Trigon FS 050/060 FP30 modular system builds on this expertise and is compatible with the tested insert elements of the proven Hueck Lava 77-30 CE fire protection series. Here, not only the single-leaf but also the double-leaf Lava fire protection door can be used for exterior applications.

Energy efficiency, sound insulation & burglar protection

The new fire protection variant of the Hueck Trigon FS meets all modern energy efficiency requirements. "At Hueck, we are very proud of the high sound insulation of up to 46 decibels that can be achieved in the fire protection system," emphasises Driessen. The soundproofing values of the fire protection design have been verified in extensive tests. "Moreover, the fire protection façade can be designed as a burglar-resistant façade in RC2 and RC3 with the same appearance."

Economical processing

As always, Hueck engineers kept in mind the most cost-effective processing of the system. "We have consistently implemented the Hueck concept of easy processing and series compatibility at the highest level in this modular system kit as well," explains Sascha Beuler, who, as a development engineer, was significantly involved in further developing the fire protection façade. This includes particularly easy assembly through the use of identical parts with cross-series system components such as accessories, additional profiles, aids and tools. "We have coordinated the construction and processing in such a way that manufacturing as a mullion/transom and as a transom/transom construction is possible with a uniform tool pool," Beuler explains. The whole system is complemented by an extensive accessory program with building connections, scaffold anchors, façade brackets, sunshade fastenings, and equipotential bonding. "Specifically for planners and architects, we also provide very comprehensive documentation with helpful preliminary static dimensions," adds Beuler.

Sustainability

Beyond flexibility and versatility, Hueck Trigon FS 050/060 FP30 meets the sustainability requirements of Hueck and its parent company Hydro. "We want to contribute to a more economical and efficient use of resources with our product concepts," summarises Driessen. "At the same time, we provide builders, planners and investors with a reliable basis for planning sustainable construction projects eligible for funding." The profiles of the systems can be produced as standard from Hydro CIRCAL 75R, an aluminium alloy consisting of at least 75% post-consumer scrap. This achieves a carbon footprint of maximum 1.9 kg Co2e / kg Al. On request, a 100% recycled alloy is also possible, offered on a project basis as Hydro CIRCAL 100R, with a carbon footprint below 0.5 kg CO2e / kg Al.



Image 1: Hueck Trigon FS 050 FP30 - Mullion / Transom (source: Hueck)