

## INNOVATIVE FACADE SYSTEM HUECK TRIGON FS WAS AWARDED THE GERMAN DESIGN AWARD FOR EXCELLENT PRODUCT DESIGN

„Ultra slim – ultra strong – ultra flexible“ was the motto with which the Lüdenscheid aluminium system house presented its new façade solution. HUECK Trigon FS facilitates the elevation widths of 40, 50 and 60mm, the construction designs mullion-transom and transom-transom, as well as the thermal insulation variants Eco, Plus and Pro within one modular system kit. A special highlight of the new façade system is the slim elevation width of 40mm, which is based on the same constructive principle as the other elevation widths. This elegant look in particular has now been recognized by the German Design Council. The new façade system received the German Design Award for outstanding design quality.

The façade solution was awarded the “Special Mention” honour in the awards section “Excellent Product Design – Building and Elements”. With this, the jury honours a consistent, innovative design concept and implementation. “We are very proud of receiving the German Design Award for our new façade system. In the development, we consistently attached great value to an elegant design and slim elevation widths in the development. This decision was now recognized by the German Design Council,” says Christian Wedi, product manager for façade systems at HUECK.



Figure 1: HUECK Trigon FS receives the German Design Award 2021

At the HUECK Climbing Tour in the spring of 2020, the HUECK experts were able to inform numerous fabricators of the intelligently constructed façade solution. The wide range of possible uses and the compatibility with the manufacturer's window and door systems were praised by visitors of the customer events. The developers of the new façade solution also took the time to listen to feedback and suggestions from customers. This valuable feedback influenced the more precise adaptation of the system to the wishes and requirements of architects and metal workers.

HUECK Trigon FS has been further developed to enable tested roof slopes of two degrees. The examination for the use of the façade system in the roof area by the renowned testing institute IFT was passed with flying colors. The performance characteristics are identical to those of the vertical façade (resistance to wind load: 2.4 kN / m<sup>2</sup>, watertightness: RE 1200 Pa, air permeability: AE 1200 Pa). A special feature is that this could be achieved with the components already included in the modular system and that the use of butyl tapes is completely eliminated. Dispensing with adhesive bonding brings added value for metal workers in terms of costs and processing. The transition between the façade and the roof is realized using a hinged bolt. These system accessories complete the modular system to a holistic system.

Furthermore, there is now the additional possibility of building HUECK Trigon FS in a polygonal layout. This additional processing option can be produced with just a few additional work steps. In line with the tried and tested HUECK principle of component sharing, the polygonal façade requires largely identical accessories to those used in previous applications. The polygonal façade can realize the usual filling

thicknesses and offers a 90-degree solution within the same system, which uses the same accessory components.

In addition, the load-bearing capacity of the new façade system was further expanded within the HUECK Boost technology. Supporting loads of up to 900 kg are currently possible and further developments are continuously being worked on. Next to standard glass carriers and the combination with the glass carrier support, reinforced glass carriers, light cross glass carriers with load capacities of up to 475 kg, and heavy duty (HD) cross glass carriers with load capacities of up to 900 kg are now available. The option of selecting the glass carriers depending on the necessary load requirements offers a highly economical system for metal workers.

Another feedback that the HUECK experts received at the HUECK Climbing Tour at the beginning of the year was the desire for a more efficient connector technology.

This customer suggestion was incorporated directly into the product development and a new button connector was created. In line with the HUECK Flex technology, the flexibility of the HUECK Trigon FS was further expanded. In addition to the standard connectors and spring pin butt connectors used so far, the button connector offers an additional inexpensive and easy-to-use variant.

Moreover, visitors to the customer event for the introduction of the new façade solution gave the incentive to develop an improved pressure plate profile. This direct feedback from the market was immediately incorporated into the development process. An additional, pre-punched pressure plate profile is now available for RC2 and RC3 requirements. Due to its simplified form, it offers processing and cost advantages for the metal worker.

All data on HUECK Trigon FS are available to customers at any time online at [www.our-facade.com](http://www.our-facade.com). In addition to individual certificates and material compilations within order catalogs, material packages were also compiled that can be called up in LogiKal. Due to the much simpler input into the calculation tool, the relevant information is more easily available to planners and fabricators.

During the entire product development process, HUECK Trigon FS was developed within the framework of the Cradle to Cradle sustainability certification. The innovative façade system is currently in the certification phase.



Figure 2: HUECK Trigon FS 040 in the construction type mullion-transom and the thermal insulation variant Plus (source: HUECK)