

**ONE SYSTEM, TWO PROFILE DEPTHS AND ENDLESS POSSIBILITIES -
"THE HUECK LAMBDA WS/DS 075/090 IS A REAL ALL-ROUNDER"**

HUECK System GmbH & Co. KG, based in Lüdenscheid, is currently marketing its new modular systems for windows and doors, which have been extensively refined and offer extremely high levels of consistency, under the slogan "Ingenious diversity. Looking ahead." The HUECK Lambda WS/DS 075/090 not only offers a high level of insulation variability that extends all the way to passive house standards, but it also has a wide range of scalable options for soundproofing and safety. The system is well-thought-through right down to the smallest detail, and additional strengths include its flexible usage and combination possibilities, – including the option to combine with the HUECK Trigon FS façade system. The newly refined system will be presented at roadshows at 14 locations both in Germany and abroad from the 4th of May.

Nowadays, construction projects in urban environments need to meet demands for adapted soundproofing, variable safety options, high levels of insulation and certified sustainability. "At the same time, architects and planners want elegant aesthetics, transparency and a high degree of design flexibility", says Thomas Leimkühler, head of system management at HUECK. In order to keep up with all of these requirements, two tried-and-tested series have been harmonised and combined to create a universal modular system in the form of the HUECK Lambda WS/DS 075/090. "The result is a genuine all-rounder", explains Leimkühler. "I don't know of any other system currently on the market that's as versatile, as scalable or as economic in terms of its processing, or that has as many different combination options".

One system – Endless possibilities

Because the modular system ensures a completely uniform appearance in both 75 mm and 90 mm profile depths, it opens up a wide range of possibilities in terms of transparency, insulation, soundproofing and safety. This makes it possible to have sash weights of up to 300 kilograms for the windows, for example, with sash dimensions of up to 1635 mm in width or 2835 mm in height. The windows in the series can be designed both with integrated sashes and as outward opening windows, window façades or ventilation flaps, as well as with French balconies. The modular system also offers the same level of flexibility when it comes to the doors, with sash weights of up to 300 kg, sash widths of up to 1500 mm and sash heights of up to 3100 mm. A vast range of different door hinges and lock solutions provides additional flexibility for options ranging from economical doors all the way to elegant building and house doors. Another highlight of the modular window and door system is the fact that it is extremely easy to combine with the innovative HUECK Trigon FS façade system. This intelligently designed and versatile solution isn't just available in the three elevation widths of 40, 50 and 60 mm; it can also be used either as a mullion/transom or transom/transom construction or as a structural glazing façade.

Optimised for processing right down to the smallest detail

"The identical parts principle has been a consistent feature of our solutions for a long time, as has a design that is optimised for practical use from a metal window manufacturer's perspective", explains Jens Kochheim, HUECK product manager for the window division. "As part of the harmonisation phase, we have refined the Hueck Lambda 075/090 modular system right down to the smallest detail". The symmetrical geometries of both profile depths, for example, means that standardised connectors, glazing systems,

accessories and fittings can be used across all the different series. All variable options, such as insulation, burglar protection or soundproofing, are comparatively easy to install. "As before, our top-tier solution is the innovative HUECK GEN 4.0 window fitting, which is unmatched in terms of installation speed even in its concealed form, with a standard installation time of just three minutes", Kochheim explains. In addition, thanks to a patented clamping technique, HUECK engineers have reduced the amount of work required to install the barrel hinges.

Economical burglar protection

Windows and doors in the HUECK Lambda WS/DS 075/090 series can be fitted with certified burglar protection up to RC3 as required. "With our windows, in particular, the burglar protection system is unparalleled in terms of its installation efficiency, which makes it particularly economical", says Kochheim. "It can even be easily retrofitted without having to remove the window". Alongside the burglar protection system, the modular system also provides escape door functions for extra door safety, with a wide range of scalable and combinable options for emergency exits and panic doors. "HUECK Lambda DS 075/090 meets every need, whether it's a simple mechanical escape door or a smart high-end solution with child-proof locks and safety door locks.", adds Dirk Vollmer, HUECK product manager for the door division. "We are particularly proud of our double-leaf full panic door with certified RC3 burglar protection, which is something that only very few providers have in their range".

Insulation through to passive house standard

With the HUECK Lambda WS/DS 075/090, insulation can also be easily adapted to specific requirements. The "eco", "plus" and "pro" insulation options mean that the system is able to meet any thermal requirements across the two profile depths - from a more economical solution all the way to certified passive house standard.

Soundproofing and ventilation

The new modular system also provides genuine alternatives for adapted soundproofing for construction projects in areas affected by noise pollution. The HUECK Lambda WS 075/090 makes it possible to create soundproof windows with sound reductions of up to 49 decibels that look the same as "normal" windows from the outside. "This is beneficial if a high level of soundproofing is only required on one side of the building, such as on a busy road", says Kochheim. The innovative Hueck Lambda Silent Air integrated soundproofing solution is also as unique as ever. It provides effective protection against noise not only when the window is closed, but also in the ventilation position. "Silent Air still absorbs 31 decibels of outside noise even when the window is tilted", Kochheim explains. "And a reduction of just ten decibels makes it feel like the noise in a room has been reduced by half". HUECK Lambda Silent Air is extremely flexible in terms of option combinations, and can be used as an individual solution in a modular system, with a top or bottom light window, or integrated into a window strip.

Certified sustainability

These days, property developers, planners and architects are increasingly coming up against the challenge of adopting a holistic approach in order to work in as resource-efficient and environmentally friendly a manner as possible. "The HUECK Lambda WS/DS 075/090 is able to meet these demands", confirms Leimkühler. "When designing this trailblazing system solution, our engineers focused on resource

efficiency, recyclability, exchange and retrofit capabilities, low maintenance, and a long service life right from the development stage". The HUECK Lambda WS/DS 075/090 also has an EPD as well as Cradle-to-Cradle (C2C) Bronze certification.

More information at www.hueck.com



Image 1: HUECK Lambda WS 075 Plus
(source: HUECK)



Image 2: HUECK Lambda WS 090 Pro
(source: HUECK)



Image 3: HUECK Lambda WS 090 SA I
(source: HUECK)



Image 4: HUECK Lambda DS 075 with
bottom rail (source: HUECK)



Image 5: HUECK Lambda DS 090 with
bottom rail (source: HUECK)



Image 6: HUECK Lambda DS 090 with
overlapping door filling on the outside
and inside (source: HUECK)