

Yawal SA, Poland

In focus: building elements with concealed hardware

■ **Aluminium** For almost 25 years, Artur Blukacz has worked in product development at the Polish system supplier Yawal. He spoke with Roto Inside about the developing demand for aluminium building elements in the Central European and Eastern European markets.

Yawal SA, based in Herby in Poland, is currently one of the largest manufacturers of heat-insulating aluminium profiles in Central and Eastern Europe. It boasts around 700 employees and supplies more than 1000 customers in 17 countries. The Yawal factory processes more than 25,000 tonnes of aluminium each year. Since the founding of the company in 1993, it has based its growth on an awareness of trends and quality in its product and system development.

“When I joined Yawal, an installation depth of 50 mm was the standard approach.”

Blukacz, who is currently the Head of the Development department at Yawal, still clearly remembers the days when thermal separation with a width of 12 mm was the ‘gold standard’. “We now offer windows with an installation depth of 102 mm and thermal separation with a width of 64 mm.” These key figures alone clearly indicate the challenges faced by aluminium system suppliers over the last two decades.

Thermal insulation meets durability

Blukacz and his colleagues are very proud that Yawal profiles are used to create aluminium windows that customers rate as premium products. “With our windows, we are able to easily achieve the passive house standard while also offering impressively robust and durable elements, not to mention the benefits of the design we can achieve using aluminium.” Yawal prefers to use narrow profiles and concealed window hardware and door hinges.

Concealed hardware for the best possible design

Yawal has worked closely in partnership with Roto since its founding. Both companies strive to achieve regular, intensive mutual exchanges, Blukacz reports. “The Roto AL Designo concealed hardware and the Roto Solid C door hinge are exactly what we have been looking for: concealed, durable, well-designed hardware technology.” Customers were impressed with the introduction of the new door hinge two years ago. The main door models in the Yawal Prestige range were considered to have received another substantial upgrade:

“Solid C makes good main doors simply even better.”

Yawal is one of the most important aluminium-processing companies in Central and Eastern Europe.



Extrusion

“Its wide range of applications makes this hinge a true all-rounder in our view,” Blukacz states. It reliably ensures that even doors weighing 140 kg are easy both to open to an angle of up to 110°, and to close. The hinge also supports burglar-inhibiting entrance door designs in accordance with RC 2. The uninterrupted gasket level minimises heat losses.

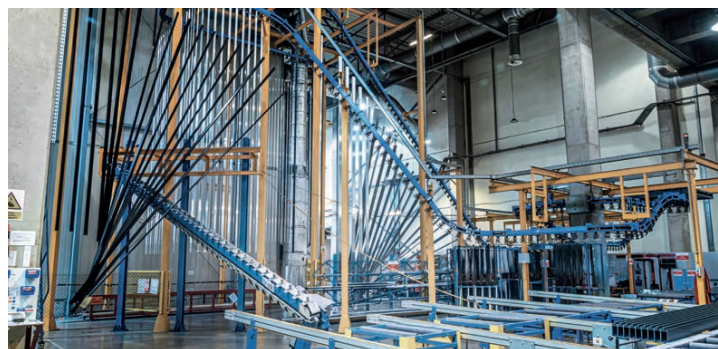
Easy to install and versatile

“Production and installation of heavy aluminium doors are made easier when working with Solid C, as it allows leaves and frames to be set up at different workstations. The routings for the hinge and lock are created using the same tool. This avoids the need for a tool change and therefore saves time,” the experienced specialist adds.

“The fitters are also particularly impressed with the FixClick function for quick and secure mounting and removal.” The height adjustment between -2 and +4 mm and the 3D adjustment also play a significant role in ensuring that on-site work is as convenient as possible. Because all hinges are easy to access, it is possible to adjust the height and gasket compression (±1.2 mm) as well as perform lateral adjustment (±3 mm) at a later stage without any problems. The self-lubricating bush in the door hinge means that no door maintenance is required.

For heavy and large windows

The benefits of the Roto AL Designo concealed window hardware are not limited solely to its appearance. “We appreciate the leeway that this hardware product range provides us,” Blukacz states. This makes it easy to keep up



An inside look at automated production

Photos: Yawal

with the continuing trend towards larger and heavier window sashes. Sashes using Roto AL Designo regularly reach up to 180 kg, while those using Roto AL reach up to 160 kg. “We are also extremely glad that, as of this year, special approval is no longer required for installing particularly high sashes. The approved standard application range of up to 3000 mm in height has arrived at just the right time. For the commercial sector in particular, elements approaching this height are more and more in demand.”

Tightly sealed sliding system with high operating convenience

Development of a new Yawal sliding system will begin shortly. “Using Roto Patio Inowa, of course,” Blukacz clarifies. “In our view, this hardware is the absolute best on the market in terms of sealing, operating convenience and design.” Blukacz has seen at trade fairs, for example, that end consumers reacted extremely positively to sliding doors with this concealed hardware. They praised its easy and intuitive operation. However, before the introduction of the new sliding system, the Yawal Sales department has another project planned.

The latest product: slim ventilation flaps

The Polish aluminium system supplier is currently in the process of launching very slim, tall ventilation flaps using Roto AL Designo hardware. Architects and facade planners, with whom Yawal regularly collaborates, immediately

recognised the benefits of these products: natural ventilation in high-rise buildings with no risks or significant heat losses. Blukacz is convinced:

“Ventilation flaps are an important issue for the future.”

He ends our conversation by summarising that, for more than two decades, Yawal has worked hand-in-hand with Roto as it has continuously expanded its product range. “We introduce innovations very quickly, as they allow us to meet the extremely high expectations of our customers. We also work flexibly to respond to the individual wishes of our customers. There is actually nothing that we cannot make.” Roto has played an active role in both of these aspects – speed and flexibility. “Which is why both companies will continue to make history together.” www.yawal.com



Artur Blukacz,
Director
Research and
Development,
YAWAL S.A.



➤ **Product information for the Roto Solid C concealed door hinge**

www.roto-frank.com/en/roto-solid-c-c7140