

# Press Release



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Covestro cooperating with construction equipment suppliers

## Facade element with efficient thermal insulation

### Advantages over aluminum elements thanks to PU composite material

Exterior cladding contributes significantly to the appearance of buildings, but it can also perform other important functions, such as shielding interiors from sound or the sun's UV rays. Rear-ventilated facades, whose elements are typically made of aluminum, play a special role here. However, they have one major disadvantage: the metal acts as a thermal bridge, as it has a higher thermal conductivity than the surrounding materials. This can cause condensation, which negatively affects the thermal insulation.

[FISCO GmbH](#) was able to implement the idea of the Dutch construction supplier [fischer Benelux B.V.](#) for a completely new [force-bearing fixture](#) through the already installed insulation material: The ThermoBracket fastening element was specially developed for rear-ventilated facades with very efficient thermal insulation. It is based on the aliphatic polyurethane (PU) composite Desmocomp® from [Covestro](#) and is easy to install.

“Our composite material is highly resistant to UV radiation, making it ideal for long-term outdoor use,” explains Andreas Hecking, an Aliphatic Composites Specialist at Covestro. “It also meets the high flame retardancy requirements for this application, making it attractive to the construction industry.”

Desmocomp® has a similar mechanical strength to aluminum, but its thermal conductivity is 1,000 times lower than with the standard metallic product. Therefore, even a low layer thickness of the composite material is sufficient to achieve good insulating performance. This both leads to a gain in the usable surface area on the building and contributes to the saving of CO<sub>2</sub> emissions and material – and thus to the conservation of resources.



**About Covestro:**

With sales of EUR 12.4 billion in 2019, Covestro is among the world's largest polymer companies. Business activities are focused on the manufacture of high-tech polymer materials and the development of innovative solutions for products used in many areas of daily life. The main industries served are the automotive, construction, wood processing and furniture, and electrical and electronics industries. Other sectors include sports and leisure, cosmetics, healthcare and the chemical industry itself. Covestro has 30 production sites worldwide and employs approximately 17,200 people (calculated as full-time equivalents) as of the end of 2019.

**Forward-looking statements**

This press release may contain forward-looking statements based on current assumptions and forecasts made by Covestro AG. Various known and unknown risks, uncertainties and other factors could lead to material differences between the actual future results, financial situation, development or performance of the company and the estimates given here. These factors include those discussed in Covestro's public reports. These reports are available at [www.covestro.com](http://www.covestro.com). The company assumes no liability whatsoever to update these forward-looking statements or to make them conform to future events or developments.