

Expressive appearance with 3D perforated sheets facade **Customised perforated sheets for large-scale free-form facades**

Neunkirchen, 5th April 2022. For the new EDEKA building in the Tailfingen district of Albstadt in Baden-Württemberg, a partially transparent 3D facade has been created using perforated sheets. For this structure, SCHÄFER Perforated Metal supplied 1,250 square metres of perforated aluminium sheets with a double-sided matt metallic powder coating. The free-form design required custom-made segments in 23 widths and 179 lengths.

"The EDEKA project in Tailfingen is one of the buildings for which it made sense to plan in 3D, instead of 2D as is usually the case with facades. The building has a very angular shell, which is enveloped by the perforated lamella facade, creating a soft, curved line that dynamically rounds off the exterior view of the building", says Anna-Lena Haardt, project manager at LACKER in Waldachtal.

Therefore, LACKER designed a substructure that carries the transition from polygonal to a free-form curved line. Static requirements resulted in the selection of a steel construction that protrudes freely up to three metres from the actual shell of the building.

The triangular shape of the lamella profiles – which were not originally designed as profiles but as sheets with folded edges – was dictated by the architecture. The advantage of the lamella profiles, which were specially manufactured for this project, is the integrated groove to hold the perforated sheets, a feature that kept assembly work to a minimum. The perforated sheet segments are inserted into the sections from above at a height of up to 14.5 metres.

"We have already worked with SCHÄFER perforated sheets several times and know the great variety of possible perforations. In the end, we decided to use two millimetre thick perforated aluminium sheets with staggered round perforations", explains Anna-Lena Hardt.

"For this project, we supplied large quantities of different perforated sheet segments ready for installation with notched corners, folded edges and a DB 703 powder coating. The RV 8.0 – 10.0 specification results in a free cross-section of 58 percent, which creates the facade's partial transparency", adds Thomas Schmidt, Business Unit Director at SCHÄFER Perforated Metal.

PRESS RELEASE



Images and captions:

Fig. 1: Fassade-Edeka_Bild-1_(c)_Schaefer-Werke-GmbH.jpg

Caption: Manufacture of customised perforated sheets for large-scale free-form facades

Fig.2: Fassade-Edeka_Bild-2_(c)_Schaefer-Werke-GmbH.jpg

Caption: Edeka in Albstadt's Tailfingen district offers an expressive appearance

Fig.3: Fassade-Edeka_Bild-3_(c)_Schaefer-Werke-GmbH.jpg

Caption: 3D facade made of perforated Aluminium sheets from SCHÄFER Perforated Metal

Fig.4: Fassade-Edeka_Bild-4_(c)_Schaefer-Werke-GmbH.jpg

Caption: Perforated sheets inserted into triangular sections with matt metallic powder coating

About SCHÄFER Perforated Metal (www.schaefer-lochbleche.de/en/):

Working with the slogan "Perforated metal made to measure – individual and fast", SCHÄFER Perforated Metal in Neunkirchen supplies a wide and quickly available range of high-quality perforated metal sheets for all industries and applications. Using high-precision tools, the company can meet virtually any customer requirements regarding material, perforation pattern, dimensions, machining and delivery. SCHÄFER Perforated Metal is a division of the internationally successful SCHÄFER WERKE.

About LACKER GmbH (www.lacker.de):

LACKER GmbH stands for innovative and technically sophisticated solutions for facade construction and window technology in glass and metal, from unconventional facades and glass roofs to ventilation elements and special constructions. Founded in 1964 and certified according to DIN EN ISO 9001:2015, this family-run business provides all solutions from a single source, from planning to professional installation. With its 100 employees, the company is also constantly working on further developments and innovations to be able to offer its customers optimum solutions in first-class quality for every project.

Sales: SCHÄFER Lochbleche GmbH & Co. KG, Pfannenbergstraße 1, D-57290 Neunkirchen,
Tel: +49 2735 787-05, **E-mail:** info@schaefer-lochbleche.de

Marketing: SCHÄFER Werke GmbH, Christina Fuß, Pfannenbergstraße 1, D-57290 Neunkirchen,
Tel.: +49 2735 787-636, **Fax:** +49 2735 787-284, **E-mail:** cfuss@schaefer-werke.de

Press: KONTAKT PR · Agentur Schmalbrock, Alte Reichsstraße 5, D-86356 Neusäß,
Tel.: +49 152 0771 0402, **Fax:** +49 821 5082 4499, **E-mail:** presse@kontaktpr.net