



PerfPRO

**Minimal application.
Maximum air flow rate.
Durable corrosion protection.**

The 50 per cent thinner coating means that the air permeability can be improved by more than 20 per cent

PerfPRO –

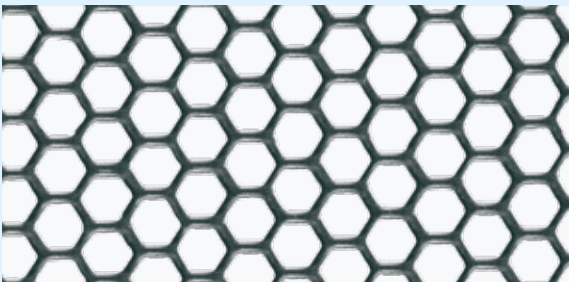
Innovative corrosion protection from SCHÄFER Perforated Metal

PerfPRO sets new standards

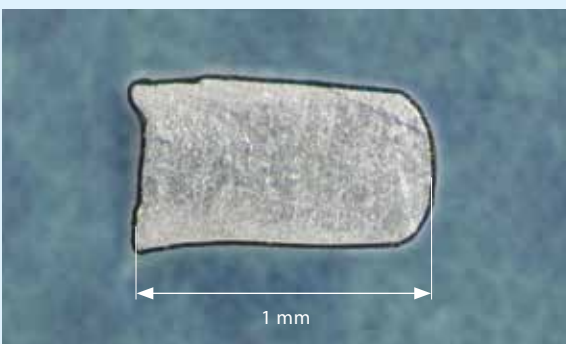
PerfPRO is the innovative, robust and durable corrosion-protection coating from SCHÄFER Perforated Metal. It was developed in collaboration with a partner to set new standards and exceed the expectations of end customers. The metallic corrosion protection is applied evenly after perforation of the steel sheets.

This enables a 50 per cent thinner coating, a larger hole diameter and thus an improved air flow rate of more than 20 per cent. **PerfPRO** has undergone comprehensive testing in independent institutes and has passed with flying colours – far beyond the requirements of the standard.

PerfPRO coating



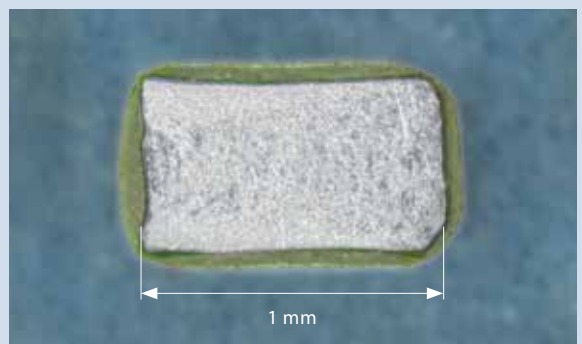
PerfPRO coating
(transparent application)

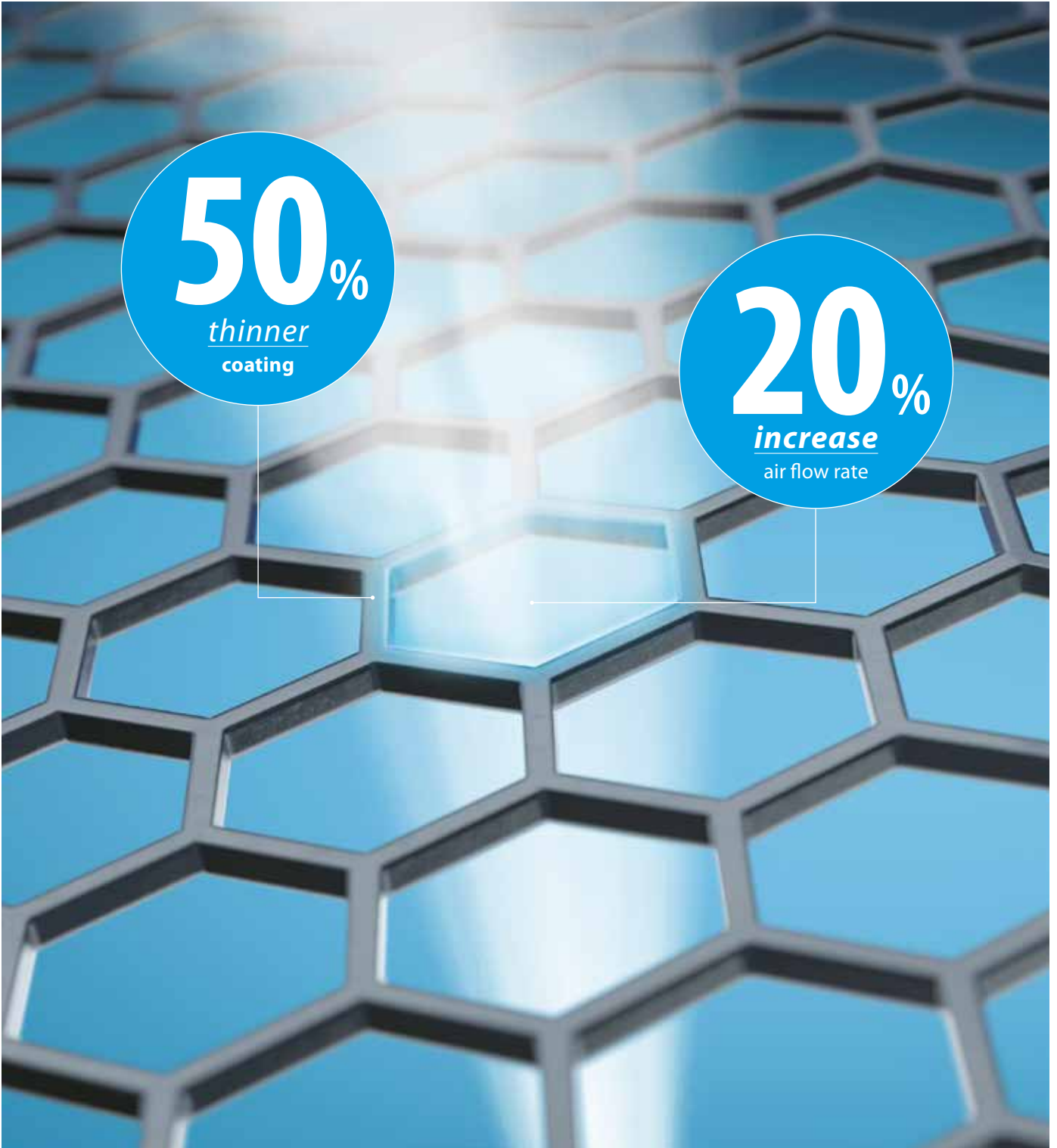


Conventional coating



Conventional coating
(e.g. dip coating and powder coating)





“Our independent tests confirm the uniform, metallic 3D coating of PerfPRO – free from edge alignment and defects. The thin layer structure increases the air permeability, which significantly improves the cooling capacity – for example in ventilation grilles of engines – compared to conventional coating processes.”

Quote from an independent institute report

PerfPRO – The highest standards of durability and reliability

Independent tests exceeded expectations

The effective corrosion protection and the resulting high durability are confirmed by independent test centres: **PerfPRO** therefore passed the salt spray test for corrosion resistance in accordance with DIN EN ISO 9227 NSS:2023-03 with flying colours with over 1008 hours – far exceeding the requirements of the standard. The adhesion test using thermal shock, based on DIN EN ISO 2819:2018-09, and the heat storage test were also successfully passed.

Independent testing institutes confirm the positive properties and associated benefits of a **PerfPRO** coating. **PerfPRO** was also successfully subjected to extensive thermal shock adhesion tests (based on DIN EN ISO 2819:2018-09) and a heat storage test. Here too, the innovative coating solution impressed across the board.

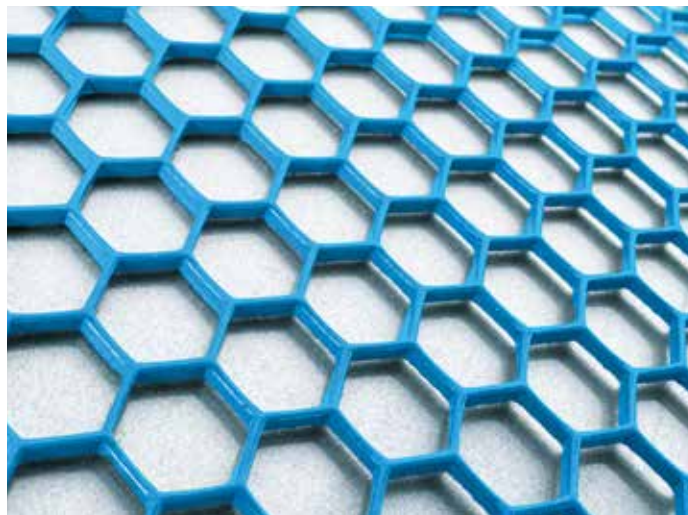
Two versions to choose from

Users can choose from two versions: On the one hand, the zinc-nickel **PerfPRO** coating and, on the other hand, the advanced version **PerfPRO+** with additional powder coating. Both versions guarantee maximum air permeability and

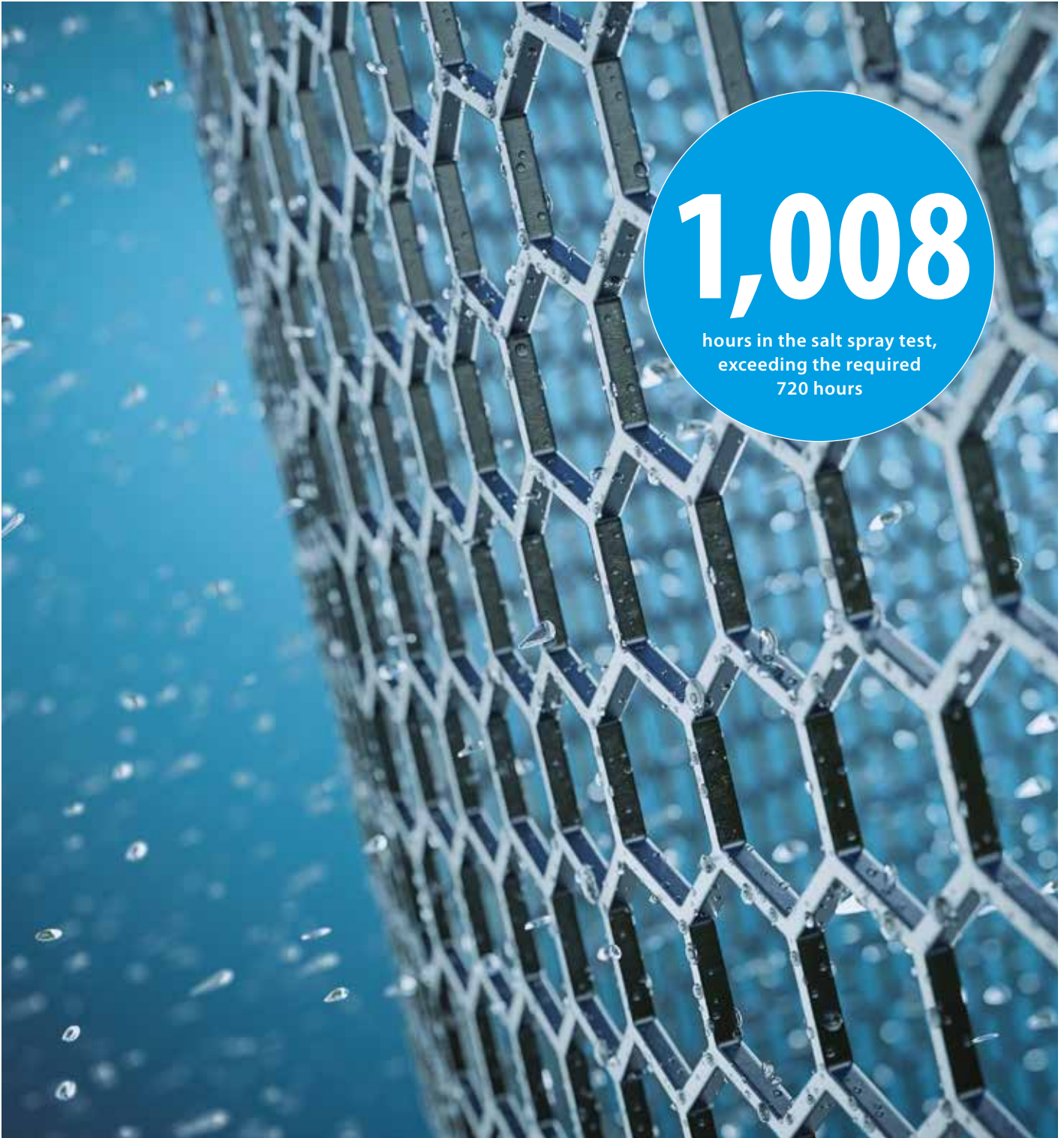
lasting corrosion protection. **PerfPRO+** also enables individual colour adjustments according to customer requirements – ideal for aesthetically sophisticated integration into design concepts.



PerfPRO



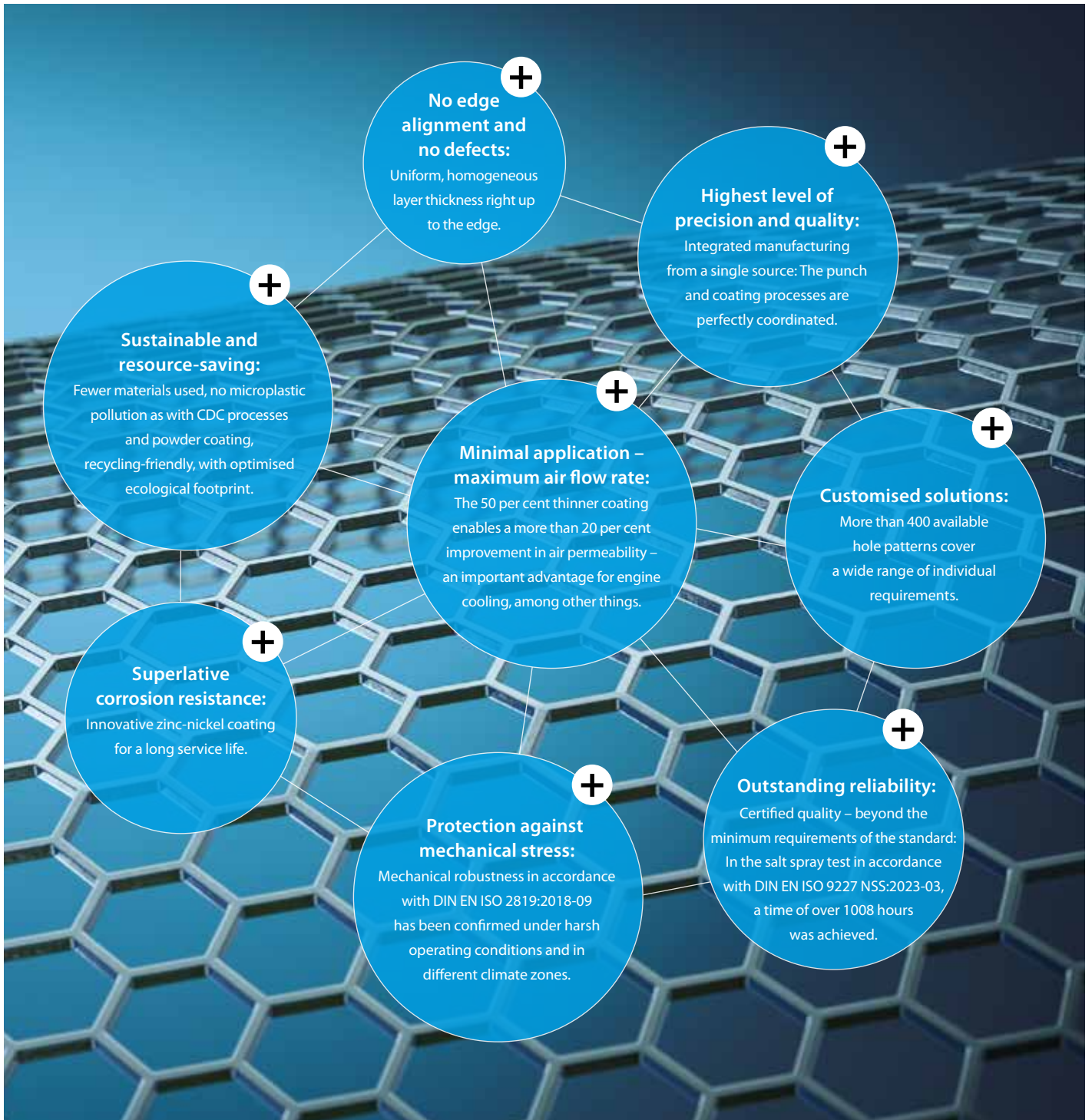
PerfPRO+



“While the standard for black passivated zinc-nickel surfaces in accordance with DIN EN ISO 19598:2017-04 only requires 720 hours without base material corrosion, PerfPRO clearly exceeded these requirements with 1008 hours. The coating therefore fulfils the highest demands in terms of durability and corrosion resistance.”

Josef Andrek, Managing Director of the Institute for Electroplating and Surface Treatments Solingen (IGOS)

PerfPRO – Benefits at a glance



PerfPRO – Designed for the toughest conditions

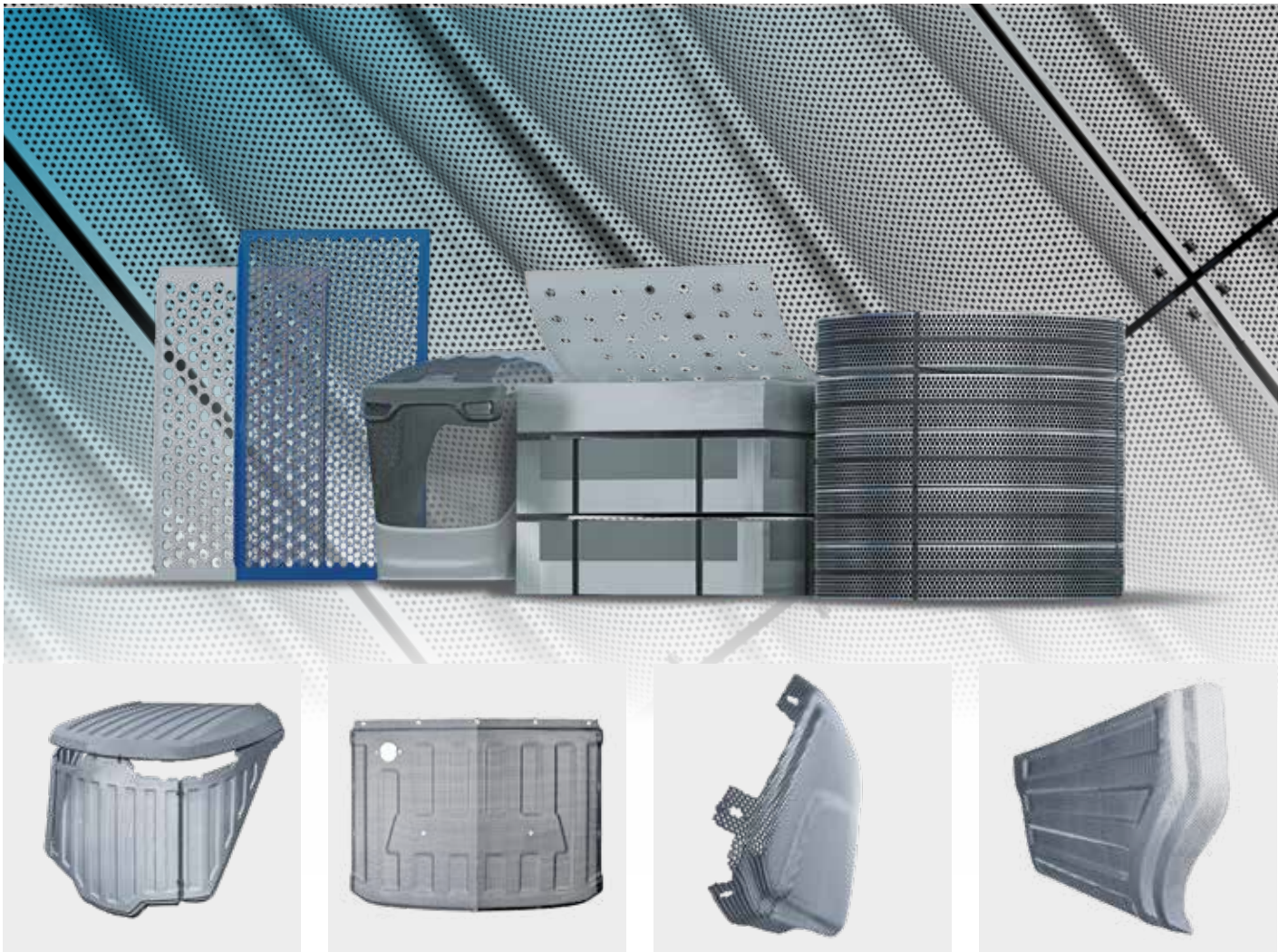
With their design advantages, perforated sheets are indispensable in many applications, including in vehicle construction and the construction industry. To fulfil the highest requirements for durability and reliability, SCHÄFER Perforated Metal has developed **PerfPRO**: The innovative zinc-nickel coating combines reliable corrosion protection, verified through

extensive testing, with the advantage of a higher air flow rate. This improves cooling capacity and thereby contributes to greater efficiency, for example in vehicle construction.

Stationary applications also benefit from the advantages of the new type of corrosion protection.



Perforated sheets made to measure



Perforated sheet processing for complex and extensive projects

Thanks to its many years of experience in the metalworking industry and its in-depth understanding of our customers' requirements, SCHÄFER Perforated Metal offers customised solutions in the field of sheet metal processing and processing. In order to deliver products that not only meet the highest quality standards but also fulfil a wide range of requirements, our expertise ranges from precise steel processing to sophisticated sheet metal working.

As your manufacturer of perforated sheet components, we understand that every requirement is unique. We therefore attach great importance to personalised advice and planning in order to find the optimum solution for your individual project when processing the perforated sheet and shaping it into the desired form.

