



WORLD WIDE WEAVE

## **Acoustic comfort and light deflection: the perfect symbiosis**

Ceiling systems made of metallic mesh from GKD

**State-of-the-art ceiling systems meet the exacting demands of modern interior architecture. As a key component of room design, their form, function and material make a significant contribution to the well-being and comfort of those using the room. Construction companies also expect cost-effectiveness and flexibility so that the desired ceiling solution can be mounted quickly and without the need for structural modifications, regardless of the respective room layout. GKD – GEBR. KUFFERATH AG (GKD), manufacturer of mesh solutions made of metal and other weaveable materials, sets new standards here with its technically mature ceiling systems. The world market leader in the field of architectural and design mesh offers innovative ceiling solutions made of stainless steel and aluminium mesh from a single source. It thereby combines the extraordinary visual appearance of the woven texture with a high level of acoustic comfort and effective light deflection. As such, the systems also make an important contribution to successful certification in accordance with LEED and DGNB.**

A pleasant atmosphere, room-based acoustic comfort and utilisation of daylight play a major part in creating a sense of well-being for building users. As both a visual and a functional interior design element, suspended ceilings play a key role here. As standard systems or a custom-shaped ceilings, metallic mesh ceilings from GKD open up a virtually unlimited array of options for creative and user-oriented interior architecture. Whether for hotels, restaurants, offices, shops or for congress or cultural buildings: the



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precisely matched system consisting of metallic mesh panels, substructure and accessories makes architectural ideas a reality in both a flexible and representative manner. With the SILENTMESH acoustic ceiling system, planners and contractors address the entire range of complex requirements for open room planning in new buildings or modernisation or refurbishment projects. The metallic mesh plates can be optionally equipped with highly effective sound absorption mats or acoustic fleece, thus reducing reverberation and improving speech intelligibility.

### **Precisely formed ceilings**

The composite (CMP) mesh from GKD combines outstanding stability with a monolithic appearance, making it the ideal choice for large-area, grid-free ceiling designs with high optical and acoustic requirements. Manufactured from twelve-millimetre-thick aluminium honeycomb supporting plate with an aluminium mesh surface layer and an intermediate layer consisting of acoustic fleece, CMP mesh enables the design of precisely formed, sag-free ceilings. The rigid panels are up to 4 metres long and 1.25 metres wide and lower the number of joints required due to their large size. Furthermore, to meet the very highest requirements with regard to acoustic comfort, GKD also offers the CMP mesh with a 25 millimetre-thick honeycomb supporting plate and an acoustic fleece intermediate layer. Without any additional insulation material – thus making it fibre-free – this mesh type achieves sound absorption values of up to  $a_w = 0.9$ . What's more, the lightweight aluminium construction ensures easy handling during assembly or inspection even for very large plate formats, thereby underlining its efficiency.

### **Brilliant lighting**

On top of this range of outstanding acoustic solutions, the innovative Atlantic Glow mesh type also offers components for improved and more even interior



lighting. With this combination of effective sound absorption and efficient light deflection, the high-gloss aluminium mesh overcomes the limitations of conventional ceiling materials. The highly reflective mesh panels significantly improve the transmission of daylight, thus contributing to natural lighting and an even distribution of light. This is an advantage that comes into play in particular when the sun is shining and solar protection is activated, when much of the light hitting the slats is reflected onto the ceiling. A ceiling design with Atlantic Glow guides the light reflected by the solar protection slats onto the ceiling far into the room, thereby flooding rooms with natural light. This not only increases the sense of well-being enjoyed by the user, but also considerably reduces energy consumption for artificial light. With these two effects, Atlantic Glow makes an important contribution to meeting elementary Green Building requirements. Moreover, the innovative mesh lends every room a unique identity thanks to its exceptional appearance – in glossy silver or with a gentle champagne-coloured finish.

### **Safe and sound**

Thanks to the free selection of sizes and systems, GKD ceiling systems open up a range of design options that meet the very highest standards when it comes to visual appearance and functionality. The modules are available in all common grid sizes, and even in customised forms on request. Available as a clamped, suspended or lay-in system, they can be fitted to every load-bearing bare ceiling with minimal effort. Wall endings are implemented by means of an end profile with or without shadow gap, wall friezes or are butt-jointed. Alongside their unique optical appearance, all systems impress thanks to their virtually unlimited service life and minimal maintenance requirements. They are quick and easy to adjust and allow lights and sprinklers to be integrated effortlessly thanks to recesses and prefabricated parts. GKD delivers all components from a single source with a fully



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dimensioned substructure. As a full-scope solutions expert, the renowned manufacturer offers customers the peace of mind that comes from having a reliable partner offering high-performance ceiling systems – from planning, through manufacturing and logistics, right up to realisation.

*5,882 characters incl. spaces*

### **GKD – GEBR. KUFFERATH AG**

The owner-run technical weaver GKD – GEBR. KUFFERATH AG is the global market leader for metal and plastic woven solutions. Under the umbrella of GKD – WORLD WIDE WEAVE the company combines four independent business units: SOLID WEAVE (industrial meshes), WEAVE IN MOTION (process belt meshes), CREATIVE WEAVE (architectural meshes) and COMPACT FILTRATION (compact filter systems). With its seven plants – including the headquarters in Germany and other facilities in the US, Great Britain, France, South Africa, China, India and Chile – as well as its branches in Spain, Dubai, Qatar and worldwide representatives, GKD is never far from its customers.

**For more information:**  
GKD – GEBR. KUFFERATH AG  
Metallweberstraße 46  
D-52353 Düren  
Tel.: +49 (0) 2421 / 803-0  
Fax: +49 (0) 2421 / 803-233  
E-mail: [solidweave@gkd.de](mailto:solidweave@gkd.de)  
[www.gkd.de](http://www.gkd.de)

**Please send a reprint to:**  
[impetus.PR](mailto:impetus.PR)  
Ursula Herrling-Tusch  
Charlottenburger Allee 27-29  
D-52068 Aachen  
Tel.: +49 (0) 241 / 189 25-10  
Fax: +49 (0) 241 / 189 25-29  
E-mail: [herrling-tusch@impetus-pr.de](mailto:herrling-tusch@impetus-pr.de)

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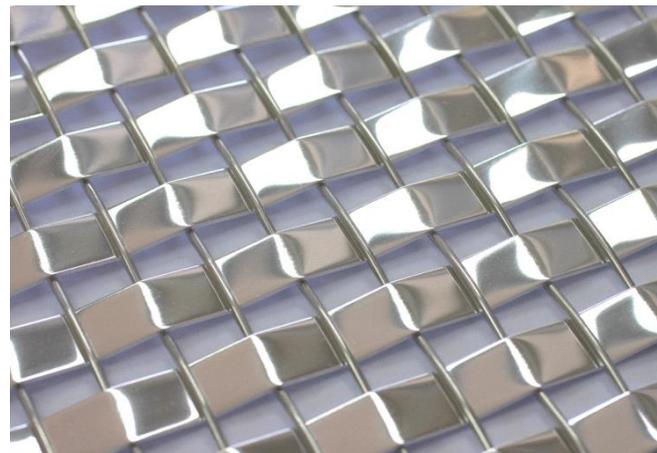
Picture 1: As both a visual and a functional interior design element, suspended ceilings play a key role.



Picture 2: CMP mesh enables the design of precisely formed, sag-free ceilings.



Picture 3: To meet the very highest requirements with regard to acoustic comfort, GKD also offers the CMP mesh with a 25 millimetre-thick honeycomb supporting plate and an acoustic fleece intermediate layer.



Picture 4: Innovative high-gloss woven aluminium Atlantic Glow made by GKD.

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Agentur für Corporate Communications GmbH

Ursula Herrling-Tusch  
Charlottenburger Allee 27-29  
D-52068 Aachen  
Tel: +49 [0] 241 / 1 89 25-10  
Fax: +49 [0] 241 / 1 89 25-29  
E-Mail: herrling-tusch@impetus-pr.de