



WORLD WIDE WEAVE

Breaking new ground in room acoustics

Ceiling systems made of composite mesh designed for the highest sound absorption without additional insulating material

The future is open-plan: whether open-plan offices, conference centres or reception halls, the trend towards flexible use of space, short communication paths and transparency is a defining feature of modern, sustainable architecture. As a result of this development, optimum acoustics are becoming a key challenge for developers, architects and planners. As well as delivering top performance, the ceiling plays a major role in creating a pleasant environment and a sense of well-being in open spaces. The Silentmesh range of metallic mesh acoustic ceilings from GKD – GEBR. KUFFERATH AG combines optical and functional properties for the design of representative interior spaces. With its 25 mm thick honeycomb supporting plate, the latest composite (CMP) mesh enables highly effective noise protection without the need for additional absorbers such as mineral wool.

The decisive factor for good acoustic room conditions is a balanced ratio of reflective and absorbent materials. And because sound-reflecting surfaces such as glass, stone or concrete are increasingly used for walls and floors, the ceiling is gaining additional importance in open-plan room design. Suspended ceilings as a visual and functional room design element hide technical installations such as media technology and air conditioning systems while at the same time enabling lights to be seamlessly integrated and allowing tailor-made room acoustics.



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An acoustic heavyweight

Metallic mesh from GKD is tried and tested in countless interior applications. Two years ago, GKD made another breakthrough in large-scale ceiling design for applications with high visual and acoustic demands with the launch of CMP mesh. Its design as sandwich panels consisting of aluminium honeycomb base plate with laminated metallic surface layer and acoustic fleece as an intermediate layer combines outstanding stability with an attractive visual appearance. And its acoustic effectiveness has now been improved yet further through the latest development. With a 25 millimetre thick honeycomb supporting plate – the original version had a thickness of 12 millimetres – and an intermediate layer of acoustic fleece, the mesh achieves sound absorption values of up to $\alpha_w = 0.9$ (NRC = 0.85) without any additional insulation material, thus eliminating the need for mineral wool insulation. As well as guaranteeing acoustic comfort, the overall structure is also fibre-free. What's more, the new CMP variant increases the cost-effectiveness of assembly and adjustment work.

Monolithic effect

Rigid panels up to four metres long and 1.25 metres wide enable the design of high-quality, grid-free ceilings without sagging. Large panels reduce the number of joints and underline the monolithic two-dimensionality of the ceiling structure through their butt joint design, while a surface layer made of lightweight aluminium mesh makes the composite system particularly easy to handle. The perforated plate mounted to the back allows hidden mounting of the mesh to the clamping profile using simple L-shaped brackets.

Talented all-rounder

Silentmesh from GKD is a byword for metallic mesh ceiling solutions with precisely matched, technically mature system components consisting of



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mesh plates, substructure and accessories. Manufactured from either stainless steel or aluminium mesh, the systems impress with their virtually unlimited service life, simple assembly and minimal care requirements in addition to their outstanding visual appearance. The ceiling systems are quick and easy to adjust and allow lights and sprinklers to be integrated effortlessly thanks to recesses incorporated during production.

Holistic service

The mesh appearance and system design are individually adapted to the requirements of the specific application, thus allowing it to be used in an almost unlimited array of applications. This makes Silentmesh an attractive, sustainable alternative not only for major representative projects, but especially for refurbishment, renovation and modernisation measures. And because all components are supplied from a single source, GKD provides reliability and security during the phases of planning, logistics and implementation. The world's leading manufacturer of woven solutions made of metal and other weaveable materials thereby underlines its expertise as a solution partner. With this latest development of the CMP mesh, the company once again sets the standard for highly effective acoustic ceiling systems.

4.630 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)



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and COMPACT FILTRATION (compact filter systems). With its seven plants – including the headquarters in Germany and other facilities in the US, Great Britain, South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai, Qatar and worldwide representatives, GKD is never far from its customers.

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