



**Creative**WEAVE  
form function solution

*Silentmesh*  
*ceiling systems*



WORLD WIDE WEAVE

## New interpretation of ceiling systems

As a leading technical weaving operation, we have established metallic mesh worldwide in the sophisticated architectural arena. We have realised design visions with future-oriented technical innovations for the past 20 years. This is also reflected in numerous ceiling design projects. Well-known references such as the Bibliothèque Nationale de France, the Tonhalle in Dusseldorf, the airports in Athens, Dusseldorf, Paris, Zurich and Singapore, as well as the European Court of Justice in Luxembourg are all prominent examples of our work.

We have systematically built on our expertise in designing the most diverse free-form ceiling solutions from metallic mesh and bundled our know-how in the development of dedicated ceiling systems. We now offer full-scope support for acoustically and visually optimising rooms with tailor-made functional ceilings from a single source.

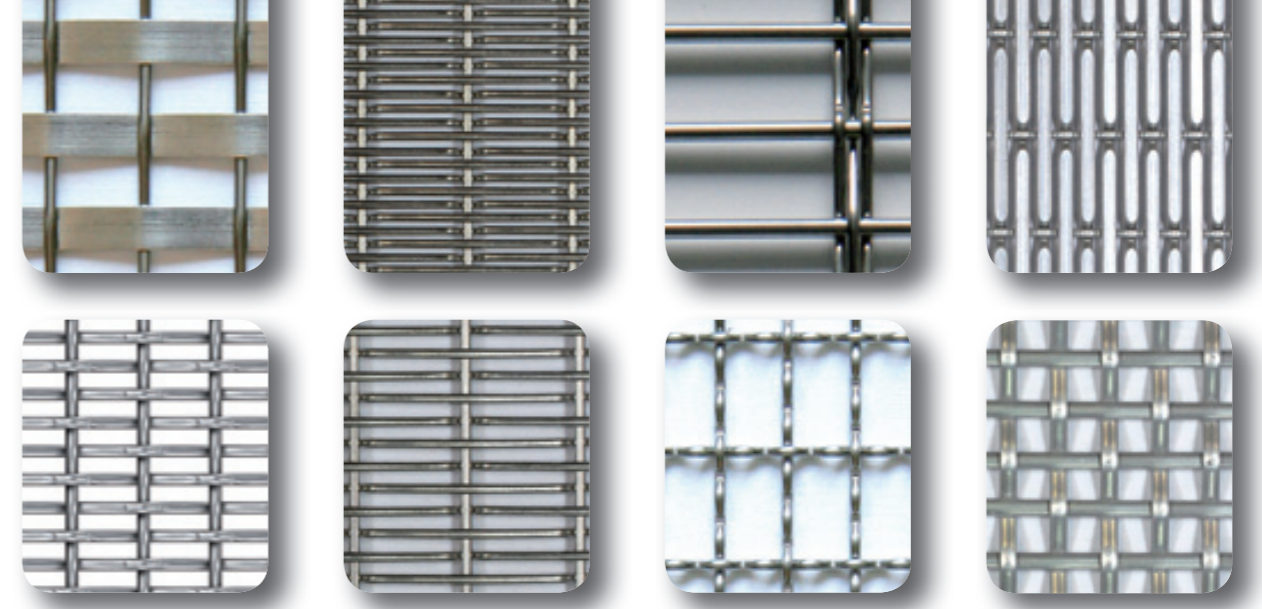
### RANGE OF SERVICES

- Substructures
- Installation planning
- Full assembly/fitting
- Maintenance
- Functional mesh
- Mesh selection
- System design



Heimbs Café, Braunschweig, Germany. Architect: Despang Architekten.  
Mesh: Lamelle/Omega (2)

La Suisse Assurance, Lausanne, Switzerland.  
Architect: ASS Architectes LSA. Mesh: Sambesi (3)



Mesh: Atlantic  
Mesh: Ellipse 52

Mesh: PC-Omega 1510  
Mesh: PC-Omega 1520

Mesh: PC-Tigris 100x15  
Mesh: Hydra 21

Mesh: Alu 6010  
Mesh: Alu 3540  
Further meshes available on request

### TYPES OF MESH

### MOUNTING SYSTEMS

- Visible lay-in mounting with T-rails
- Concealed mounting using clamping or bandrafter grid profiles

### ADVANTAGES OF OUR SYSTEMS PORTFOLIO

- Matched components from a single source
- Sophisticated complete solutions
- Certified systems
- Optimised logistics
- One contact throughout all project phases



GKD Customer Centre, Düren, Germany.  
Mesh: Lago (4)

## Beautifully framed function

Modern ceiling design establishes a sense of creative harmony between form and function. With our systems, we therefore place as much emphasis on the effect and atmosphere of a room as on acoustic and thermal comfort.

Ceiling systems with CreativeWEAVE metallic mesh are extremely flexible and can follow any architectural idea in terms of size, shape and design. They are available as element or raster ceilings and as freely formed ceiling panels. The extraordinary aesthetics of the metallic mesh turn ceilings into a visual experience. In its interaction with light, the high-grade surface creates targeted accents or lends the Silentmesh acoustic ceiling a kind of monolithic presence.

*National Gallery of Victoria, Melbourne, Australia.  
Architect: Mario Bellini. Mesh: Baltic (6)*



*Tonhalle, Dusseldorf, Germany.  
Architect: HPP Hentrich-Petschnigg & Partner GmbH + Co. KG.  
Mesh: Omega 1540 Bronze (special mesh) (5)*

*Tonhalle, Dusseldorf, Germany.  
Architect: HPP Hentrich-Petschnigg & Partner GmbH + Co. KG.  
Mesh: Omega 1540 (7)*



*Hilton Frankfurt Airport Hotel, Frankfurt, Germany.  
Architect: JOI - Design. Mesh: Mandarin (8)*

### METALLIC MESH

- Available in either stainless steel or aluminium (other materials on request)
- Mesh-typical transparencies
- Non-combustible
- Corrosion resistant
- Easy care
- Fully adjustable
- Recyclable

### ADVANTAGES OF METALLIC MESH CEILING SYSTEMS

- Design freedom
- Ease of installation
- Elegant aesthetics
- Selectable, sprinkler-compatible structure depending on the mesh
- Maximum functionality
- Virtually unlimited service life
- Low maintenance costs

### FUNCTIONAL CEILINGS

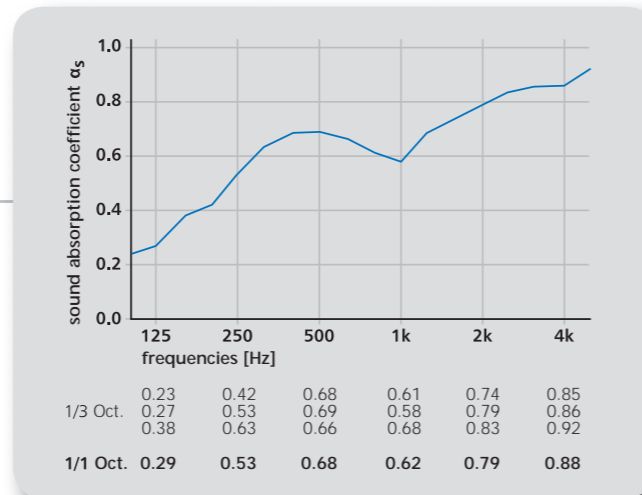


**Silentmesh**  
acoustic ceiling system

## Creatively optimised acoustics

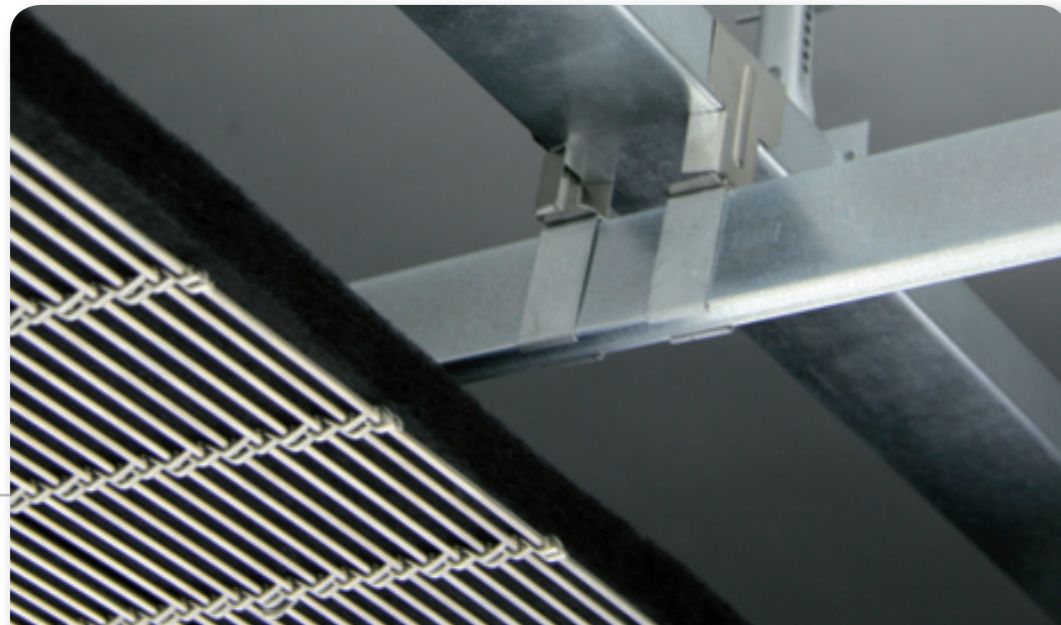
The **Silentmesh** acoustic ceiling system, available with stainless steel or aluminium mesh, opens up virtually limitless design options. Ceiling panels made of standard products and grid/raster ceilings characterise our portfolio of complete solutions for a high level of room-based acoustic comfort.

**Silentmesh** lends rooms pleasant acoustics through a highly effective sound-absorption matt or certified acoustic fleece matting. Ceiling fittings, such as lights, downlighters or sprinklers, are easy to integrate. On request, we can also incorporate tailor-made openings and trimmed sections when preparing the meshing at our facility. The overall system is designed in line with the ceiling standard DIN EN 18168 / DIN EN 13964. **Silentmesh** is also fully adjustable, and can be removed and refitted.



Sound absorption coefficient based on the example of Tigris, 62%

Clamping profile for secure, adjustable insulation.  
Mesh: PC-Tigris (9)



Acoustic fleece matting with hotmelt coating.  
Mesh: Alu 6010 (10)



Clamped mounting with simple clamping profiles. Mesh: PC-Omega 1520 (11)

### MODULE SIZES FOR LAY-IN MOUNTING T15

- 600 x 600 mm / 1200 x 600 mm
- 625 x 625 mm / 1250 x 625 mm
- Imperial raster

### SOUND ABSORPTION LAYER

- Polyester (10, 20 or 30 mm thick), construction material class B1 (flame resistant)
- Acoustic fleece matting
- Black or white

### ACOUSTIC EFFECT

- Sound-absorbent
- Improved room acoustics
- Improved speech intelligibility

### AREAS OF APPLICATION

- Conference/meeting rooms
- Open plan offices
- Reception halls, foyers
- Waiting rooms
- Hotels
- Airports, railway stations
- Museums, libraries
- etc.

## Holistically designed systems

**Silentmesh** is an acoustic ceiling system with metallic mesh for visible lay-in mounting using a system of T-rails or concealed clamped mounting with bandrafter or single clamping profiles. Wall connections are established with wall anchors (with or without shadow gap), wall friezes or are butt-jointed. The design of the entire system is in line with DIN EN 13964.

The system is attached to the load-bearing structural ceiling using metal anchors approved by the building authorities. Adjustable, galvanised nonius brackets are then used to suspend the ceiling at the intervals defined by DIN EN 18168, DIN EN 13964 or in line with static stipulations.

The substructure, consisting of the base and supporting profiles, employs galvanised CD-profiles in line with DIN EN 14195. T15 or T24 mounting profiles are available for lay-in mounting (standard T15 mm high-gloss chrome, aluminium in natural colour, black, white or coloured on request). Alternatively, clamped and suspended installation options are also available.

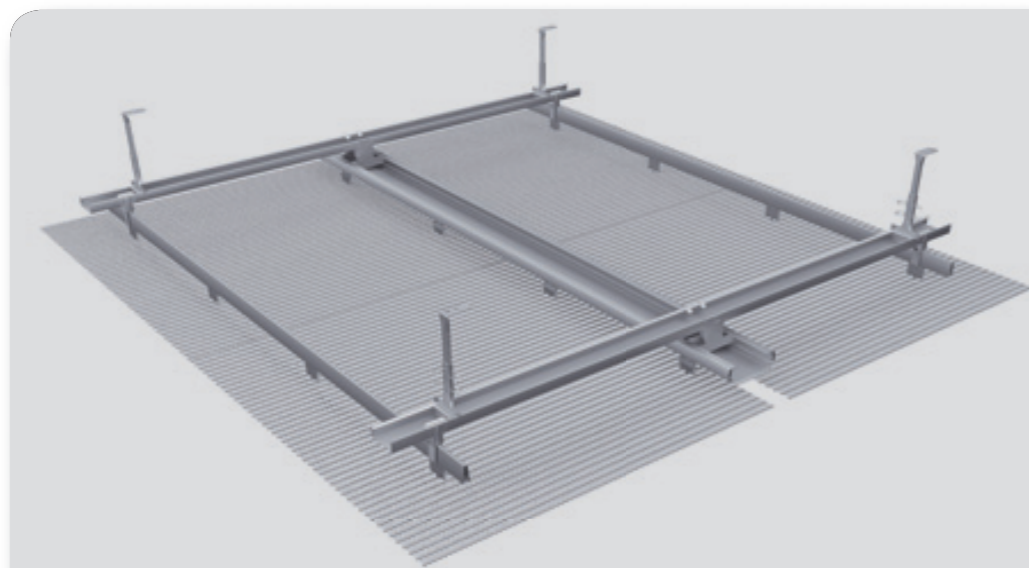
The sound absorption matt is available in both polyester and acoustic fleece, construction material class B1. The surface layer is manufactured from stainless steel or aluminium meshing and complies with the ceiling standard DIN EN 13964.

The modules are available for all common grid sizes/rasters (EN, DIN, Imperial). Freely sculpted forms are also available on request.

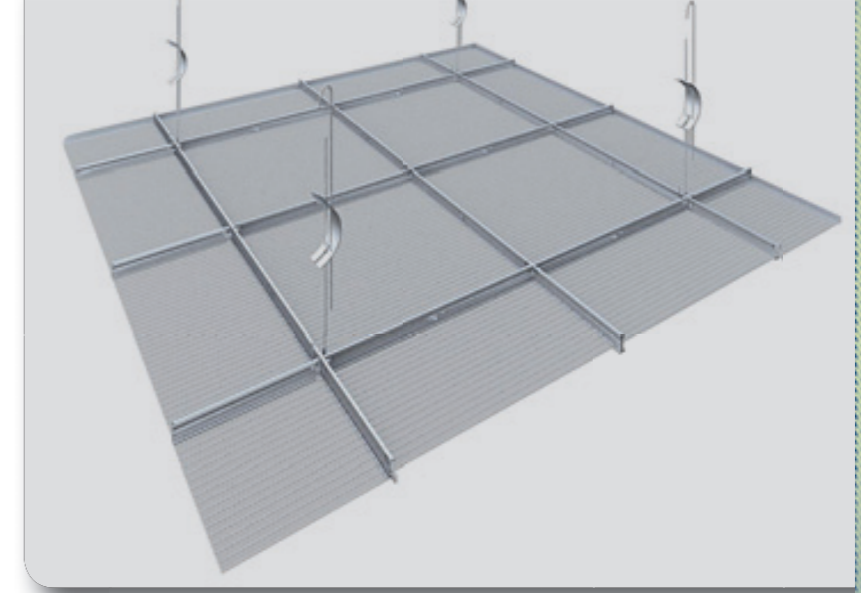
All components are technically and visually matched. The system is then delivered with a fully dimensioned substructure and installation plans.

The openings and trimmed sections required for ceiling fittings, such as lights, downlighters or sprinklers, are prepared and implemented at our facility prior to delivery.

**Silentmesh** is fully adjustable, and can be removed and refitted.



Clamped mounting (12)



Lay-in mounting (13)

### LAY-IN SYSTEM SPECIFICATIONS

#### System description:

Design of the entire system in line with DIN EN 13964.

Installation of the load-bearing structural ceiling using metal anchors approved by the building authorities, load capacity  $\geq 5$  kN per anchor. Suspended using adjustable, galvanised nonius brackets, intervals in line with DIN 18168, DIN EN 13964 or static requirements.

Substructure, base frame consisting of galvanised CD-profiles in line with DIN EN 14195 as base and supporting profile.

T15 or T24 mounting profiles for lay-in mounting (standard T15 mm high-gloss chrome). Alternatively, clamped and suspended installation options are also available.

Polyester sound-absorption layer (10, 20 or 30 mm thick), construction material class B1. Alternatively, acoustic fleece matting is available, construction material class B1.

Surface layer made of metallic mesh in line with the latest version of DIN EN 13964. Module sizes: 600/600 mm, 1200/600 mm, 625/625 mm or 1250/625 mm.

The fitting of lights, downlighters, sprinklers, etc. can be incorporated in the design during production with dedicated holes/recesses.

The ceiling systems can be taken down without any tools.

### CLAMPING SYSTEM SPECIFICATIONS

#### System description:

Design of the entire system in line with DIN EN 13964.

Installation of the load-bearing structural ceiling using metal anchors approved by the building authorities, load capacity  $\geq 5$  kN per anchor. Suspended using adjustable, galvanised nonius brackets, intervals in line with DIN 18168, DIN EN 13964 or static requirements.

Substructure, base frame/raster consisting of galvanised CD-profiles in line with DIN EN 14195 as the support profile. Support profile grid/raster made of clamping rails (alternatively as joint backing with bandrafter grid profiles).

Surface layer made of metallic mesh in line with the latest version of DIN EN 13964. The surface layer is attached to the clamping profiles using the patented GKD metallic mesh suspension brackets.

Module sizes: 600/600 mm, 1200/600 mm, 625/625 mm or 1250/625 mm, other sizes freely selectable depending on the maximum spans of the individual mesh types.

Polyester sound-absorption layer (10, 20 or 30 mm thick), construction material class B1. Alternatively, acoustic fleece matting is available, construction material class B1.

The fitting of lights, downlighters, sprinklers, etc. can be incorporated in the design during production with dedicated holes/recesses.

The ceiling systems can be taken down without any tools.

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