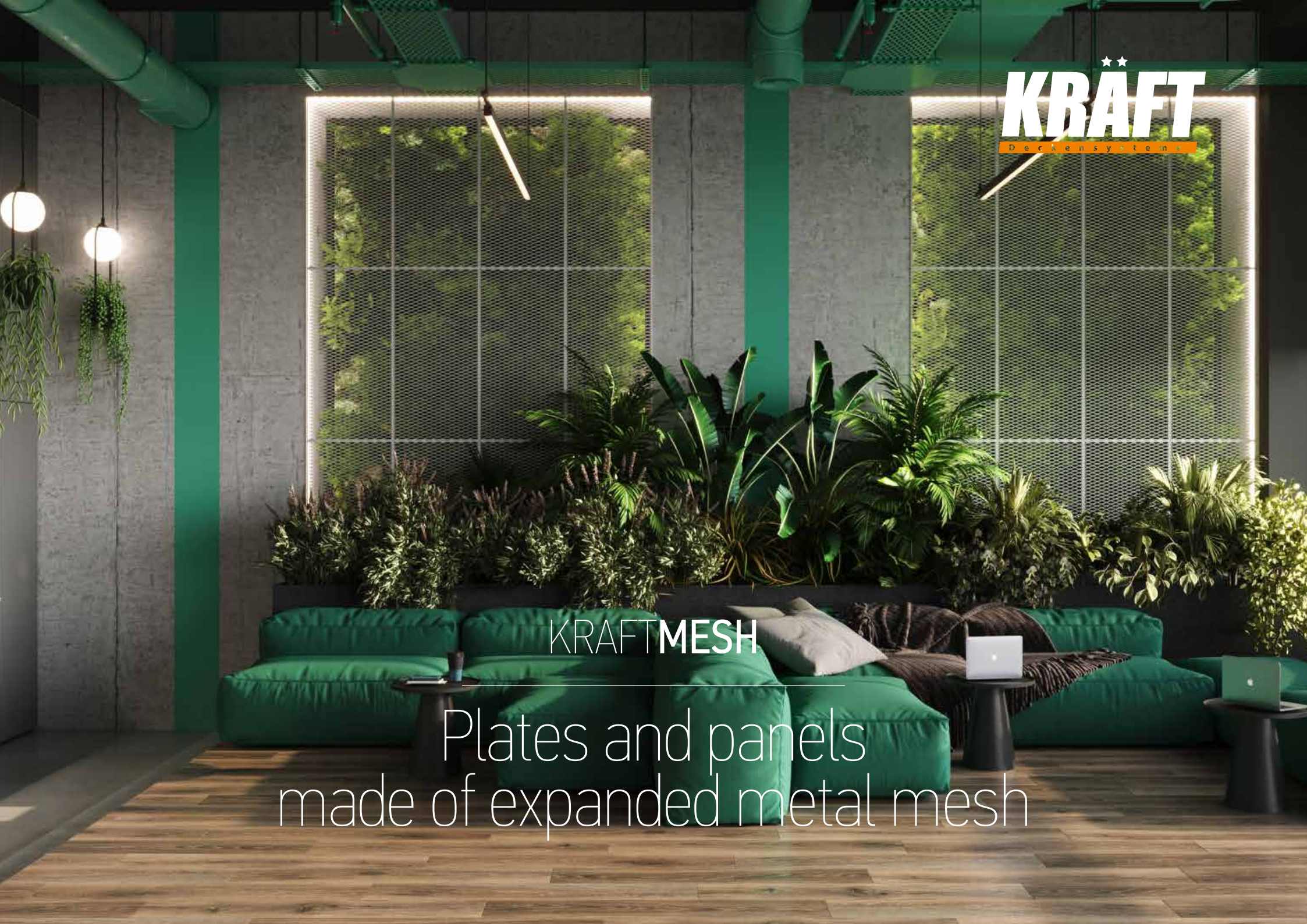


KRAFT
Deckensysteme

KRAFT**MESH**

Plates and panels made of expanded metal mesh

The first KRAFT production line for suspended ceilings was launched in 2012.

As of 2024, we produce over 45 types and modifications of suspended ceilings, our own lighting systems, acoustic panels, and more.

KRAFT SUSPENDED CEILINGS ENJOY WELL-DESERVED POPULARITY BECAUSE:

1 We use tested raw materials and reliable equipment — as these are guarantees of product quality and safety.

2 All our products undergo quality control during production and certification.

3 We keep up with the latest trends in the ceiling systems market and continually introduce new products and innovations.

4 We are constantly increasing our product range, giving our clients ample choice.

5 We offer not just individual products — we provide complete professional ceiling system solutions.

OUR ADVANTAGES

EXPORT 25+ countries	**DISTRIBUTORS** 70+ distributors and offices	**DESIGN DEPARTMENT** Implementing modern ideas	**ENGINEERING OFFICE** Innovative developments
ACCOMPLISHED PROJECTS 1500+ projects per year	**CERTIFICATION** Certificates from the EU	**MANUFACTURING** Factories in Ukraine and Turkey	**LOGISTICS** Streamlined logistic solutions
PRODUCT RANGE 45+ types of suspended ceilings	**WAREHOUSE PROGRAM** Popular models in stock	**STAFF** 250+ employees	**SOFTWARE** Onliner 2.0 — a distributor platform developed internally

WHY CHOOSE MESH PANELS FOR YOUR PROJECTS?

DESIGN

Design options: any color as per RAL, various cell sizes, can be used as separate elements.

LIGHTING

The mesh design allows integration of main or decorative lighting, highlighting the aesthetics of the space.

FIRE SAFETY

Metal panels are non-flammable and do not obstruct the evacuation of combustion products, which is important for public premises.

VENTILATION

The mesh structure does not interfere with ventilation, which is especially important for large spaces and areas.

DURABILITY

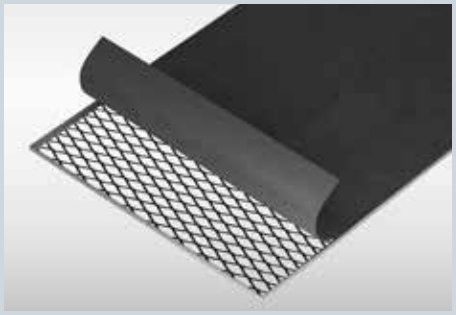
Mesh metal systems are ideal for use in impact-resistant infrastructure, such as gyms or railings.

FACADES, WALLS, PARTITIONS

Mesh panels can be used on building facades, walls, as partitions, or as railings and barriers.

ACOUSTICS

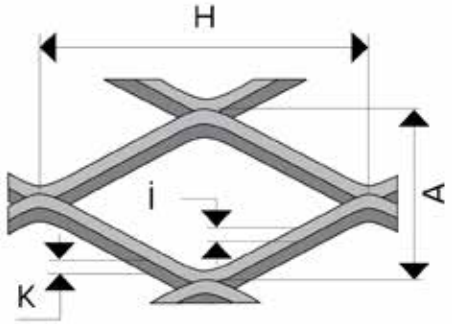
Metal panels and metal cassettes with sound-insulating mats provide excellent acoustic properties.



ENVIRONMENTAL FRIENDLINESS

Mesh metal panels and cassettes are made from high-quality steel, which can be fully recycled.

Sizes and parameters of cells



All panels are made of expanded metal mesh. The cells of the expanded metal mesh have several sizes — cell width (H) and height (A), thickness (K) and height (I) of the metallic mesh filament. Different ratios affect the permeability, transparency, structural integrity, strength, and weight of mesh panels.

Characteristic	16×8 mm	30×13 mm	42×14 mm	60×20 mm
Dimensions of the product H×A×I×K (mm)	16×8×2×1	30×13×3×1	42×14×3×1	60×20×4×1
Material	High-quality galvanized steel in compliance with PN-EN 13964:2014-05			
Weight of the panel 600×600 mm, kg	1,85	1,64	1,73	1,68
Weight of the panel 1200×600 mm, kg	3,70	3,28	3,52	3,35
Weight, kg/m^2	5,14	4,56	4,80	4,65
Transparency	50%	54%	57%	60%

WAVE EFFECT

Due to the technological process, the mesh cells have an elongated shape. These elongated cells create a repetitive pattern that resembles waves oriented along a single axis.

WHY CONSIDER THE DIRECTION OF THE WAVE IN SUSPENDED CEILING PANELS?

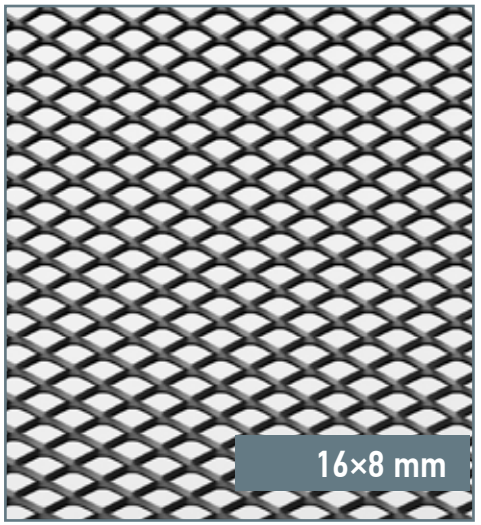
The direction of the wave determines how much space behind the ceiling is visible; the orientation of the cells affects the perception of the interior and the distribution of light.

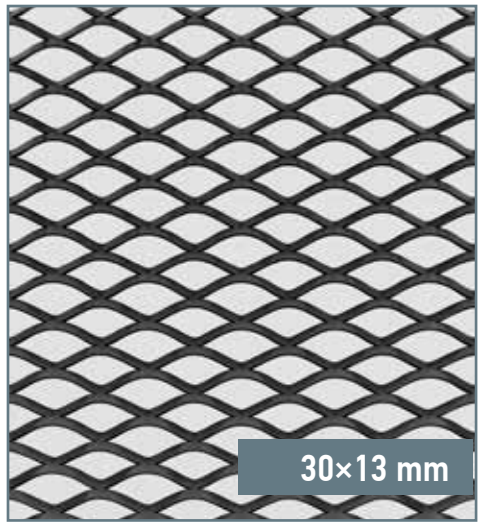
HOW TO USE?

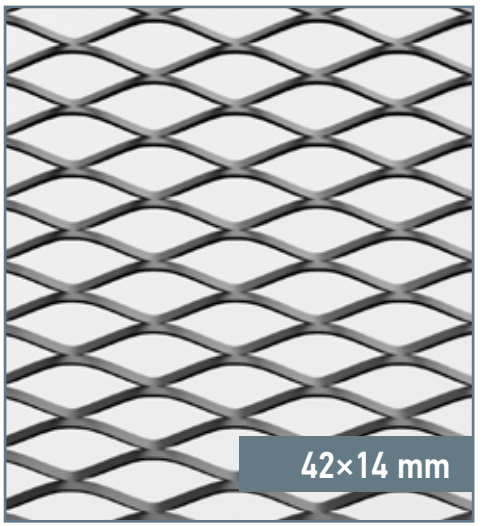
To hide communications — orient the cells to reduce the visibility of technical areas.

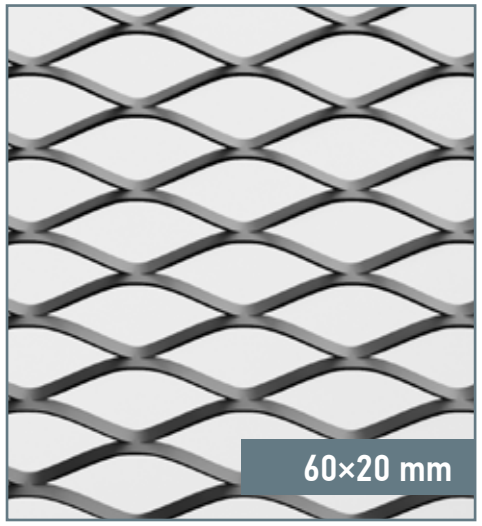
For visual lightness — use a direction that creates the effect of open space.

STANDARD CELL SIZES





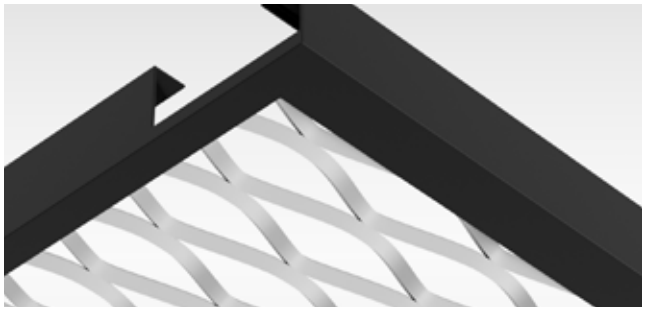




Types of connection between the mesh and the frame

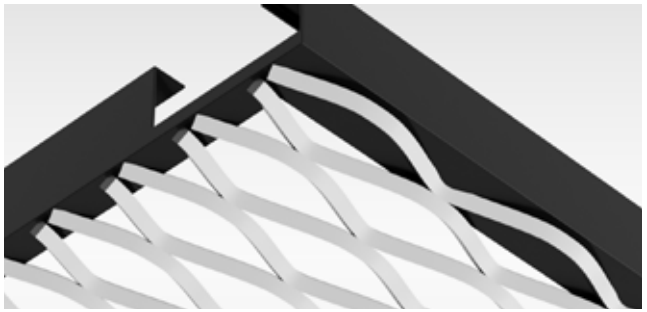
Type İ: into the frame

This type of connection is used with the following panels: LAY-ON T24, LAY-IN T15, Hook Lock, Mesh Cloud, CLIP-IN.



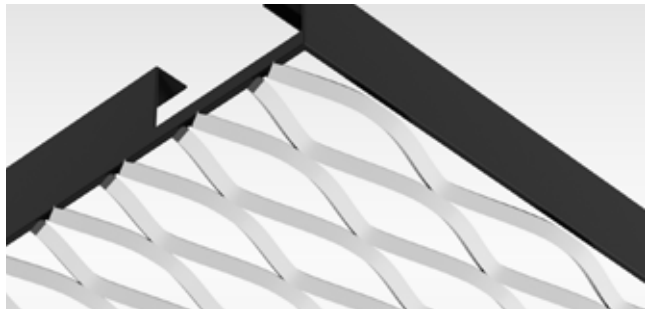
Type O: under the frame

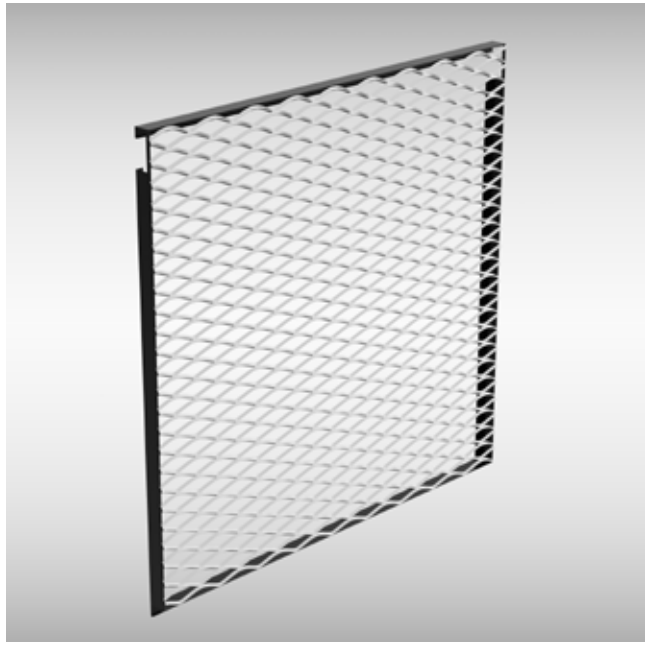
This type of connection is used with the following panels: LAY-ON T24, LAY-IN T15, Hook Lock, Mesh Cloud, CLIP-IN.



Type R: to the edge

This type of connection is used only with Hook Lock panels. This type of connection is used only with Hook Lock panels.

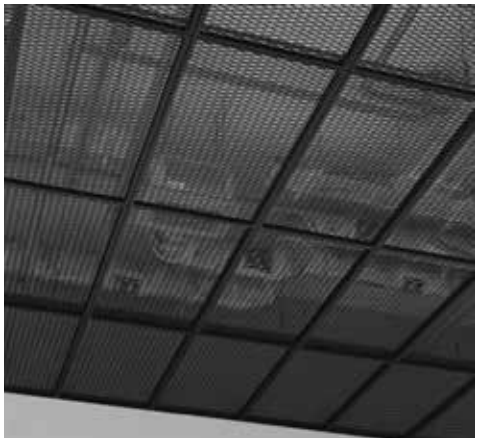




KRAFT PRODUCES FOUR MAIN TYPES OF MESH PANELS, WHICH DIFFER IN THEIR ATTACHMENT SYSTEMS.

LAY-ON T24, LAY-IN T15

Lay-On and Lay-In plates are installed in the ceiling system using KRAFT Fortis profiles of 15 or 24 mm width. In the Lay-On system, the bottom surface of the plates is level with the supporting profiles, and in the Lay-In system, the bottom surface of the plates is below the level of the supporting T-profiles.



CLIP-IN

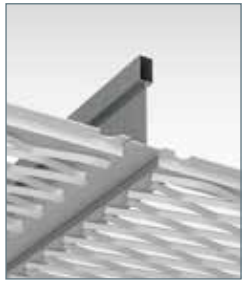
In the Clip-In system, the panel is inserted into the supporting traverse by locking from two sides. This system provides a perfectly level ceiling surface. All panels are removable independently of each other, thus ensuring easy and quick installation and disassembly.

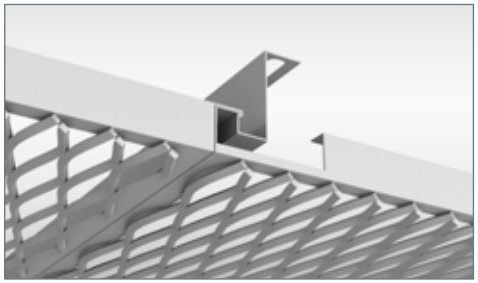
HOOK LOCK

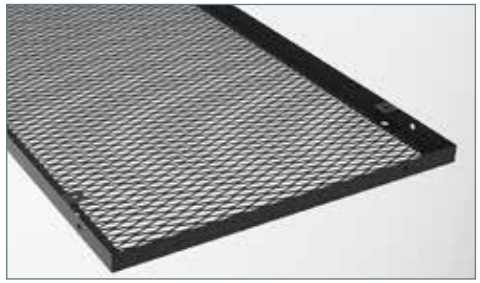
The HOOK LOCK ceiling tile system uses a concealed frame, onto which tiles are attached using hooks. This provides an aesthetic, seamless ceiling appearance and easy access to the space above for maintenance.

MESH CLOUD

Mesh Cloud panels feature a modular structure consisting of individual tiles with individual attachments. These panels can be easily installed on ceilings, walls, and other surfaces, making them extremely flexible in use.



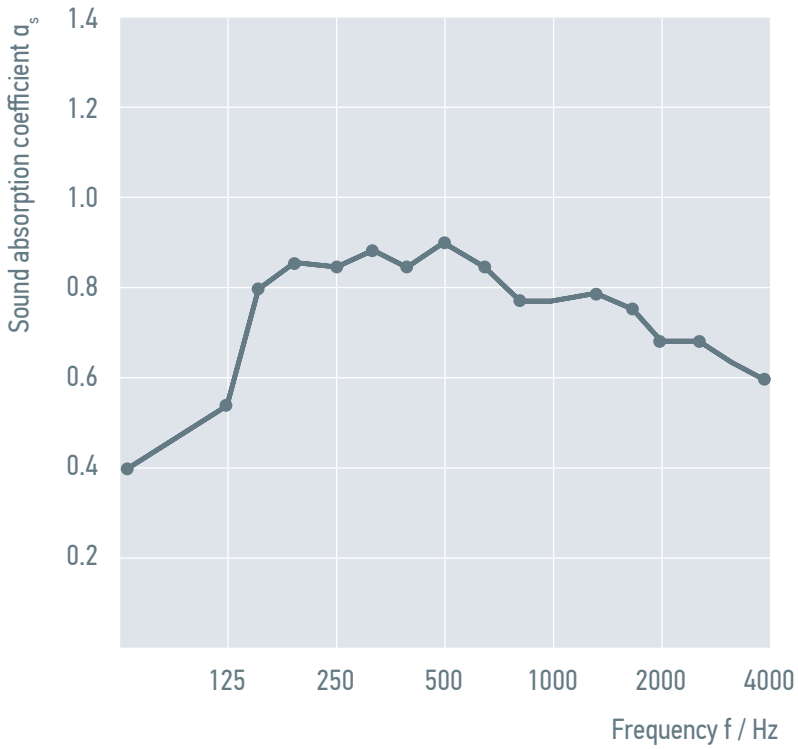




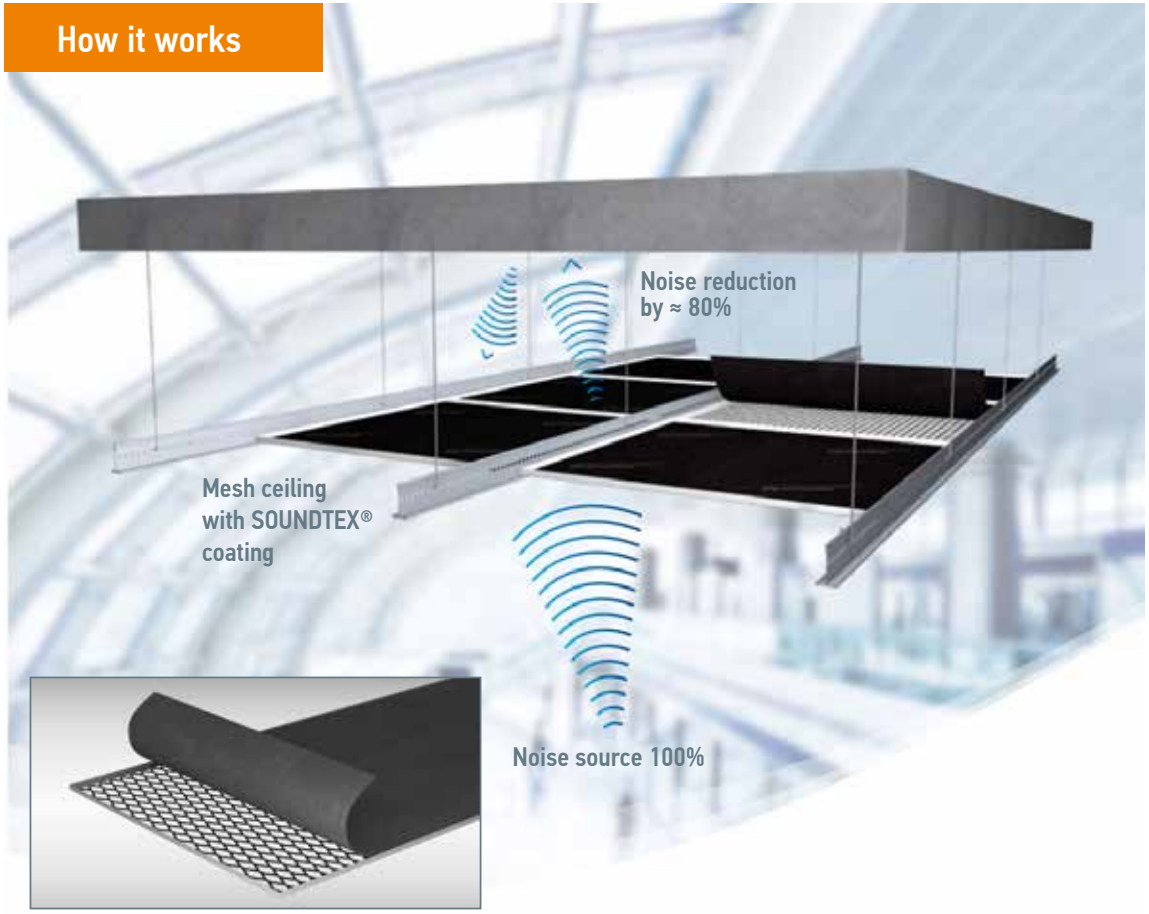
Acoustic fabric for mesh ceilings

SOUNDTEX® is an innovative sound-absorbing material made in Germany, specifically designed for use in mesh suspended ceilings. Thanks to its unique acoustic properties, SOUNDTEX® effectively reduces noise levels and reverberation, creating a comfortable acoustic environment.

- Effective noise and reverberation reduction
- Easy installation with adhesive backing
- Versatile use in residential and commercial spaces
- Maintains the aesthetic appeal of the interior

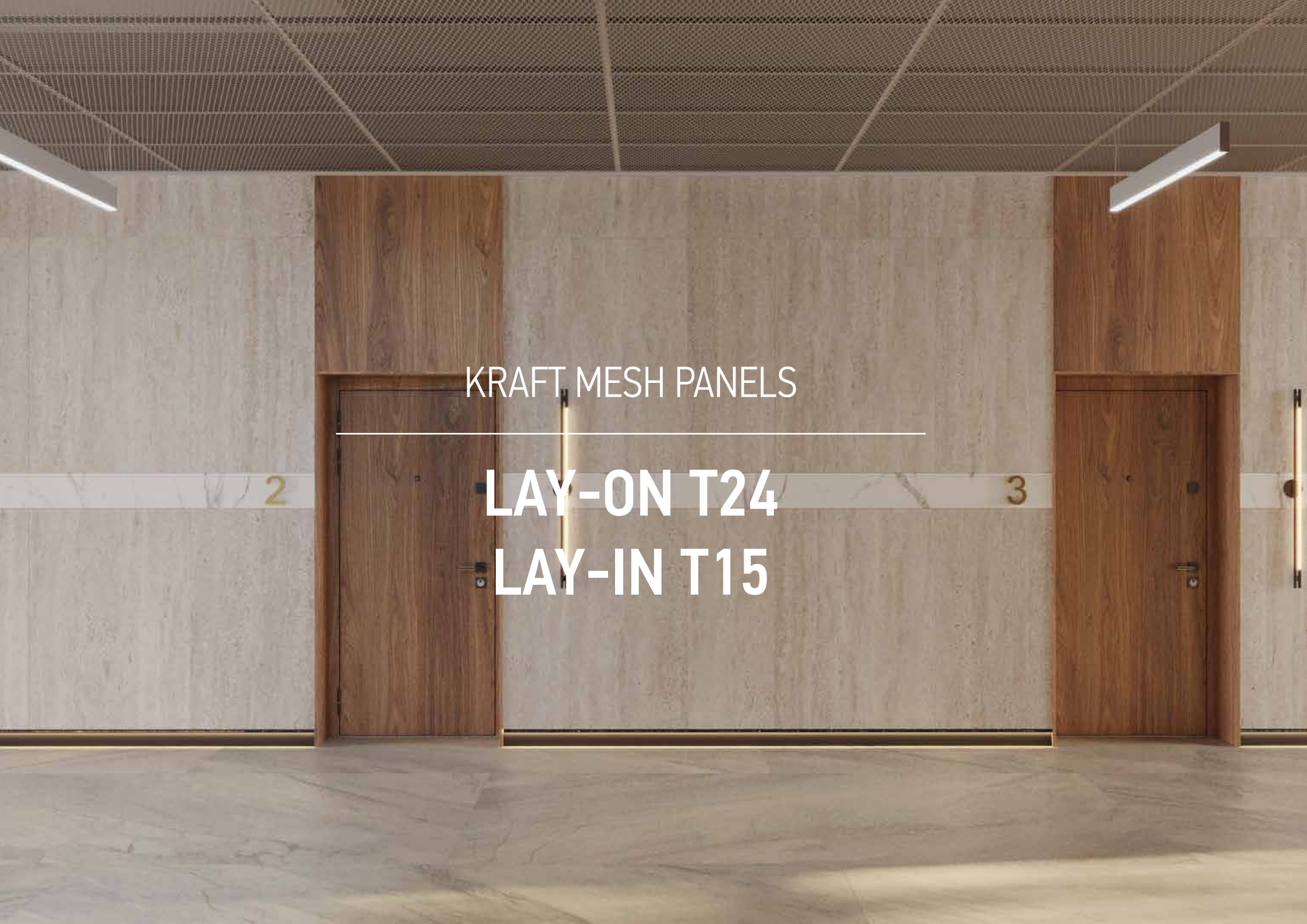


How it works



Rating according to ISO 11654:
Weighted sound absorption coefficient
α_w = 0,75 (L), sound absorption class: C

Rating according to ASTM C423:
Noise reduction coefficient NRC = 0.80
Average sound absorption SAA = 0.81

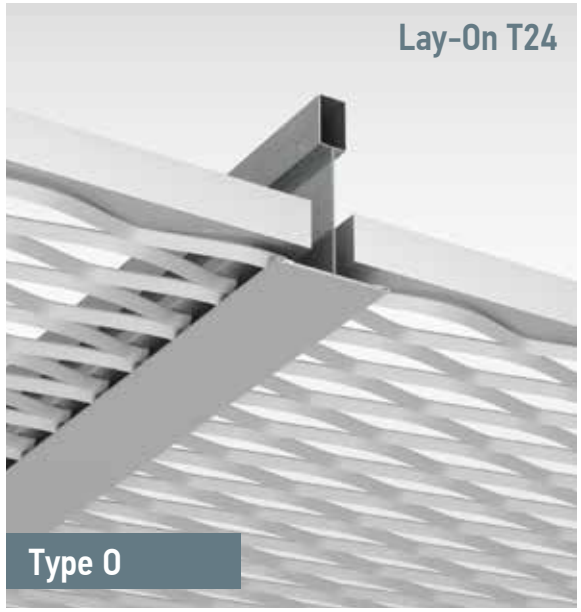


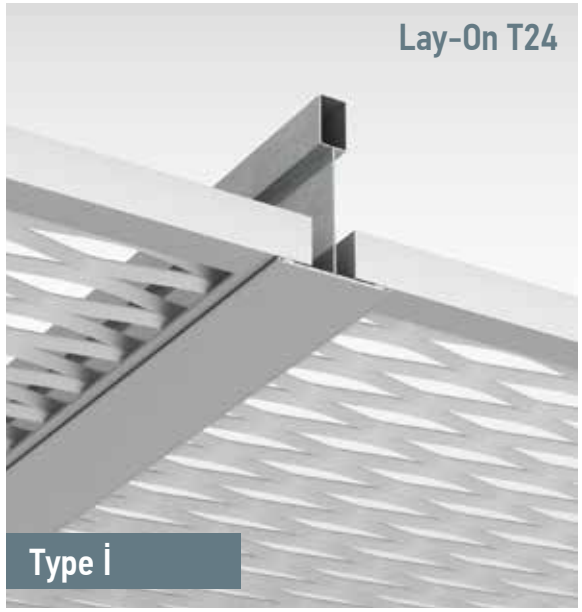
KRAFT MESH PANELS

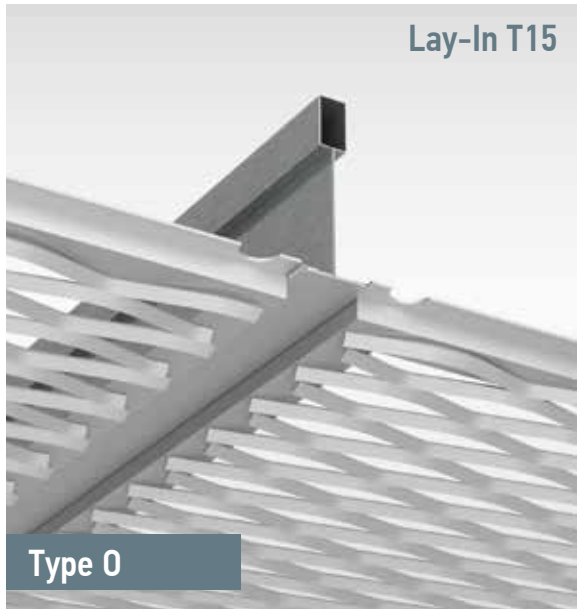
LAY-ON T24
LAY-IN T15

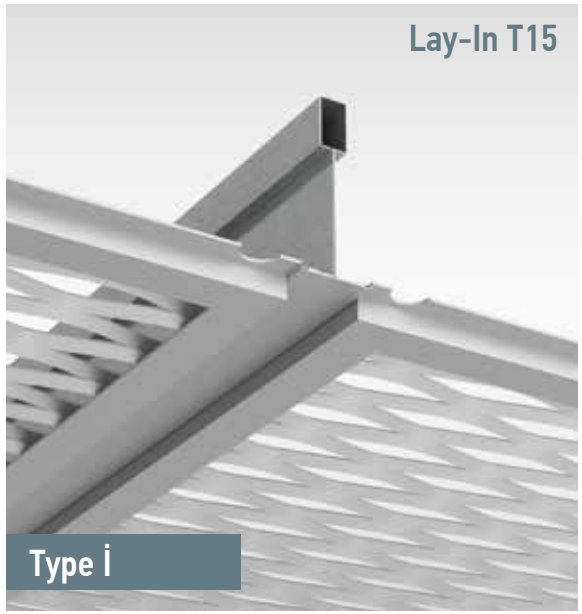
Technical characteristics of panels

Specification	Lay-On T24	Lay-In T15
Frame details	Internal L-shaped frame	Internal L-shaped frame with an edge
Support structure	Based on KRAFT Fortis T24 profiles with a width of 24 mm	Based on KRAFT Fortis T15 profiles with a width of 15 mm
Standard panel sizes	600×600 mm, 600×1200 mm	
Mesh metal thickness	1,0 mm	
Coating thickness	60-80 microns	
Colors	Any color from the RAL scale	
Fire safety class	Euroclass A2-s1, d0 according to EN 13501-1	
Acoustic properties	Additional acoustic filling with mineral fiber SOUNDTEX®	
Moisture resistance (according to ECCA, EN 1396, ASTM D 2247, HR)	95%	
Cell size	Standard	

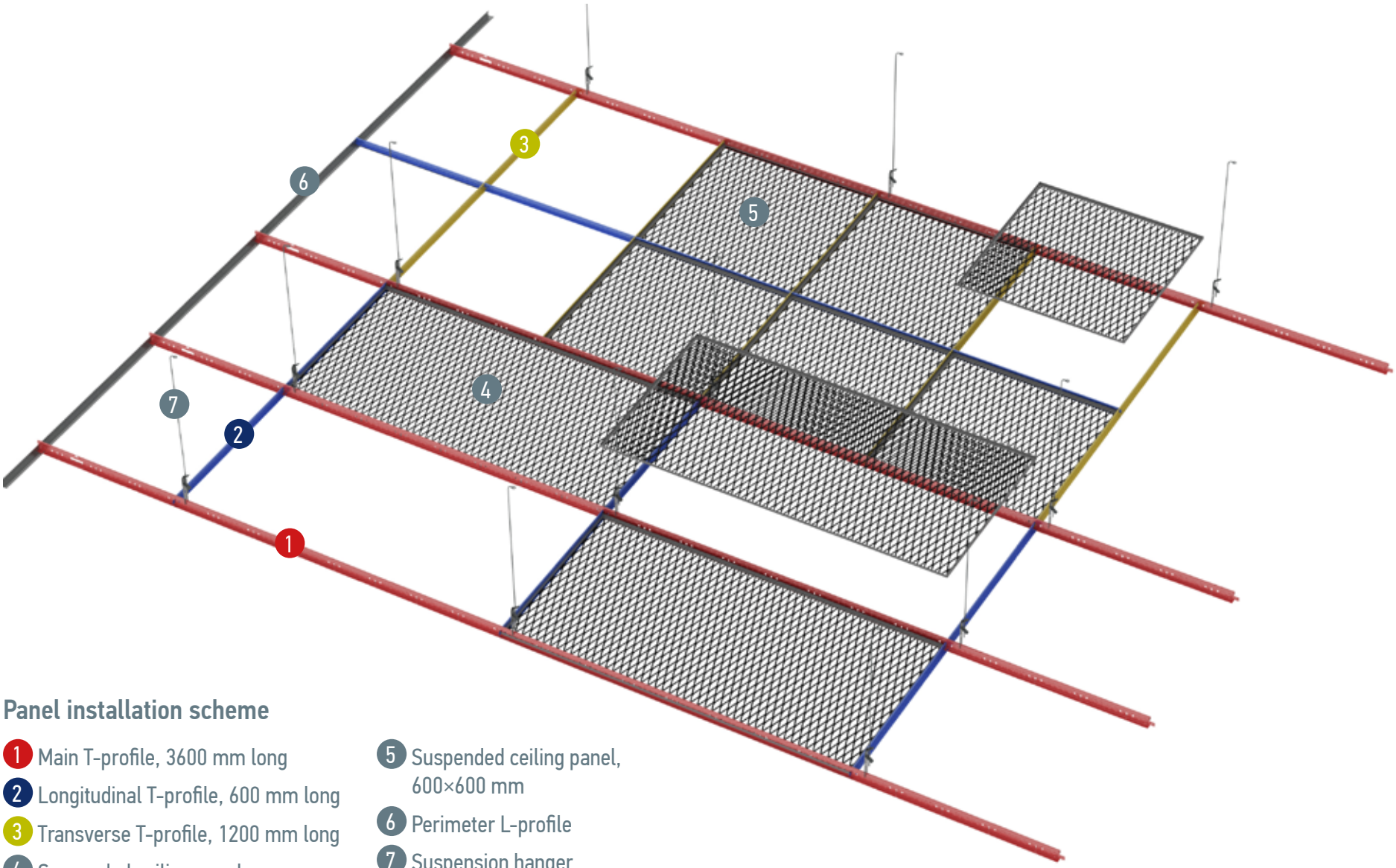








INSTALLATION DIAGRAM



Panel installation scheme

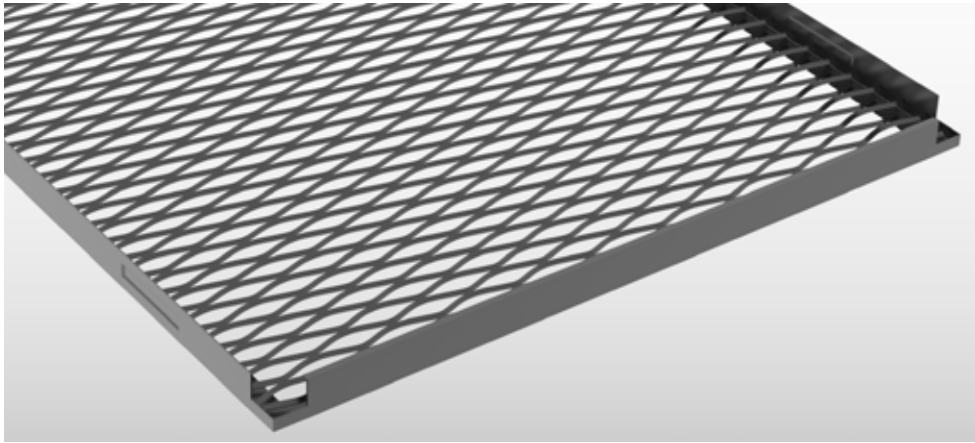
1. Main T-profile, 3600 mm long
2. Longitudinal T-profile, 600 mm long
3. Transverse T-profile, 1200 mm long
4. Suspended ceiling panel, 600×1200 mm
5. Suspended ceiling panel, 600×600 mm
6. Perimeter L-profile
7. Suspension hanger

KRAFT MESH PANELS

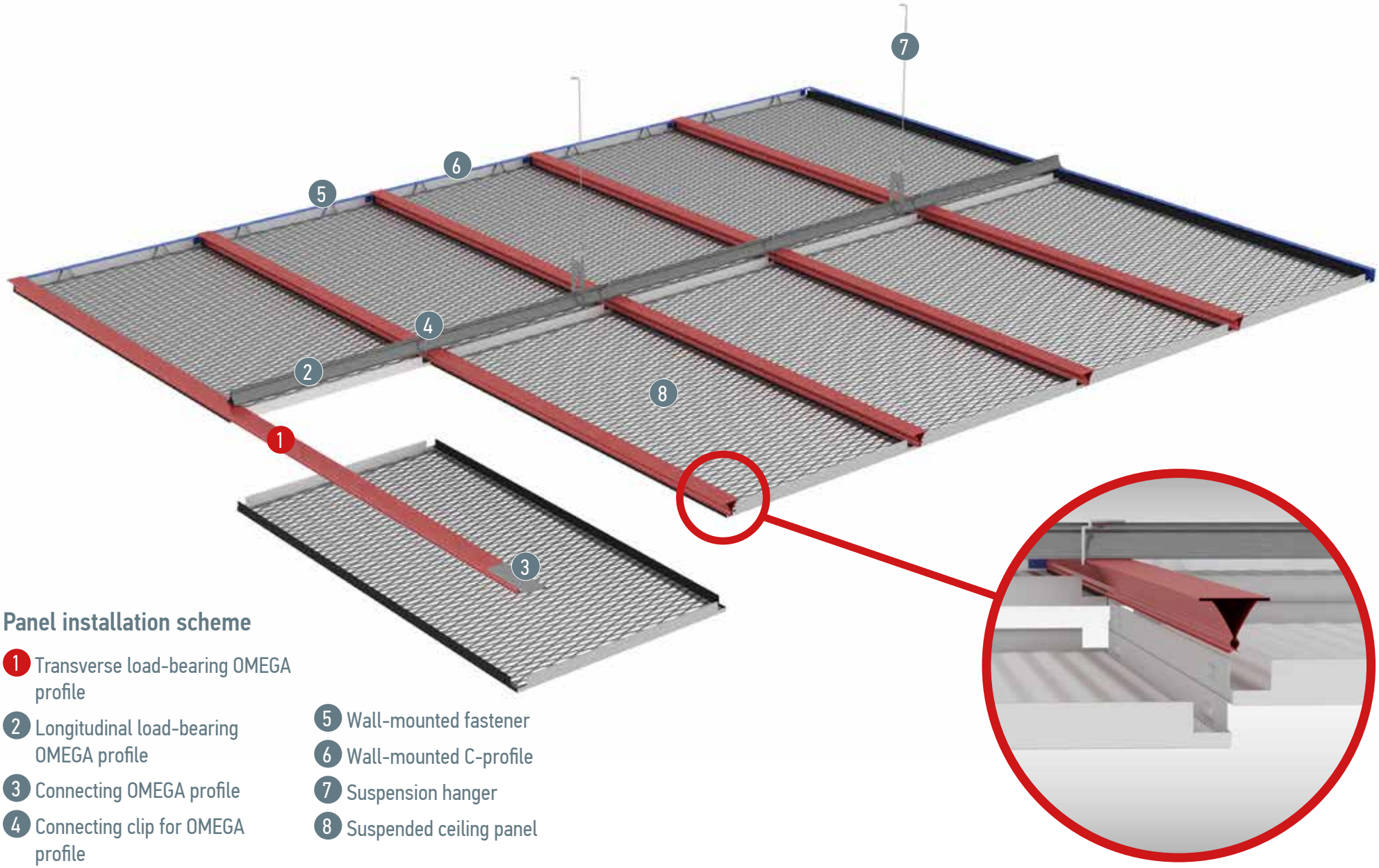
CLIP-IN

Technical characteristics of panels

Specification	Clip-In
Frame details	L-shaped frame with fasteners
Support structure	Concealed fastening system with a supporting OMEGA profile
Standard panel sizes	600×600 mm, 600×1200 mm
Mesh metal thickness	1,0 mm
Coating thickness	60-80 microns
Colors	Any color from the RAL scale
Fire safety class	Euroclass A2-s1, d0 according to EN 13501-1
Acoustic properties	Additional acoustic filling with mineral fiber SOUNDTEX®
Moisture resistance (according to ECCA, EN 1396, ASTM D 2247, HR)	95%
Cell size	Standard

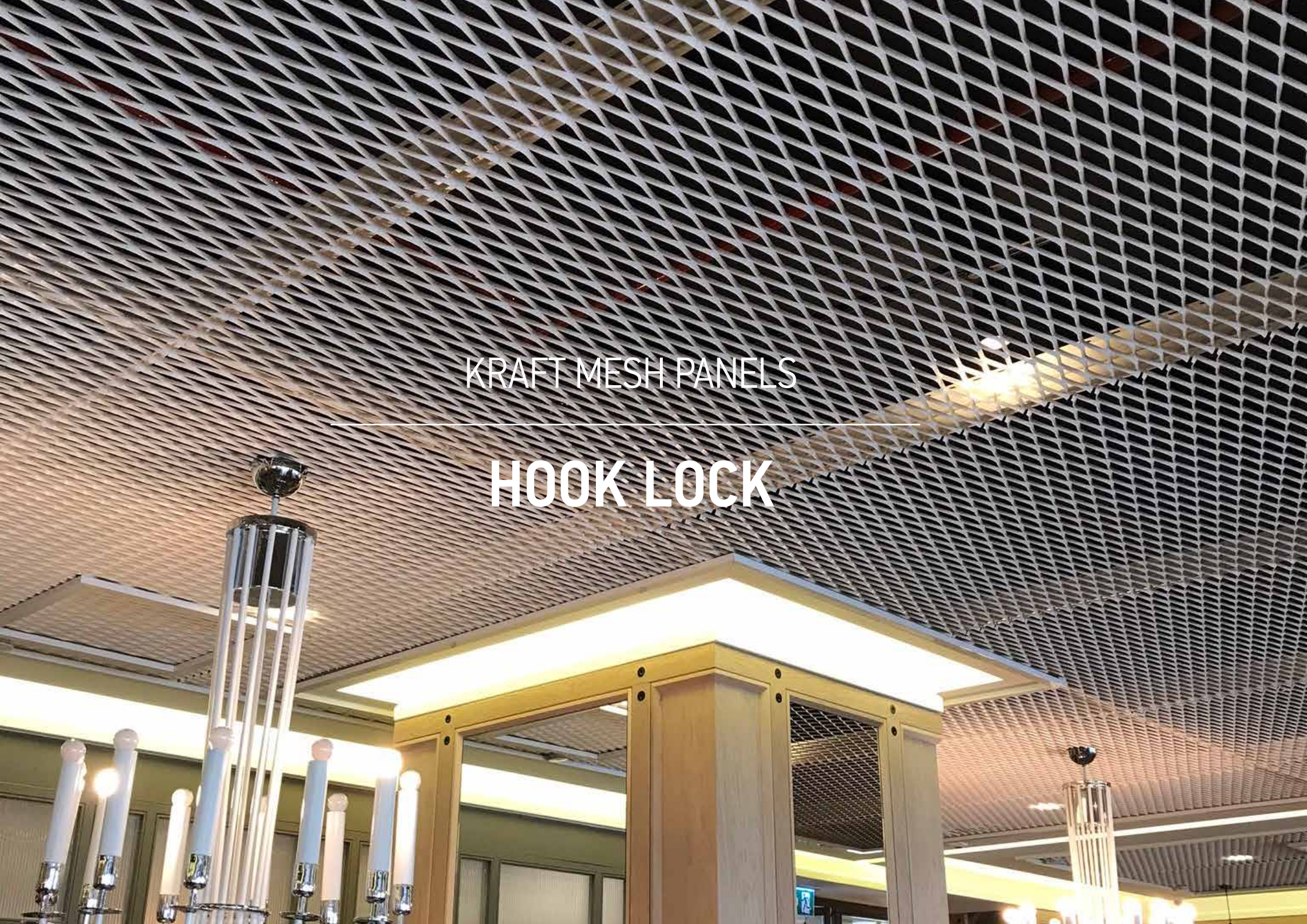


INSTALLATION DIAGRAM



Panel installation scheme

1. Transverse load-bearing OMEGA profile
2. Longitudinal load-bearing OMEGA profile
3. Connecting OMEGA profile
4. Connecting clip for OMEGA profile
5. Wall-mounted fastener
6. Wall-mounted C-profile
7. Suspension hanger
8. Suspended ceiling panel

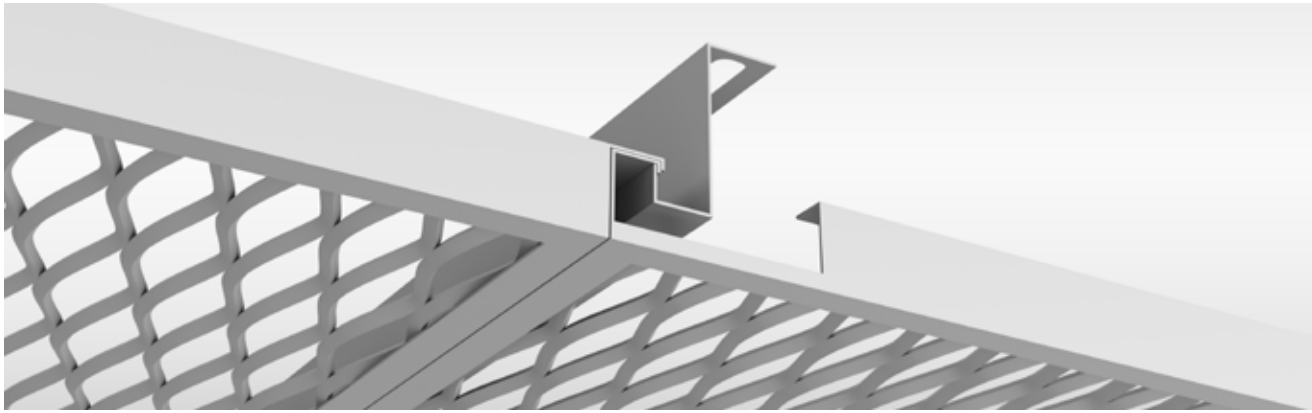


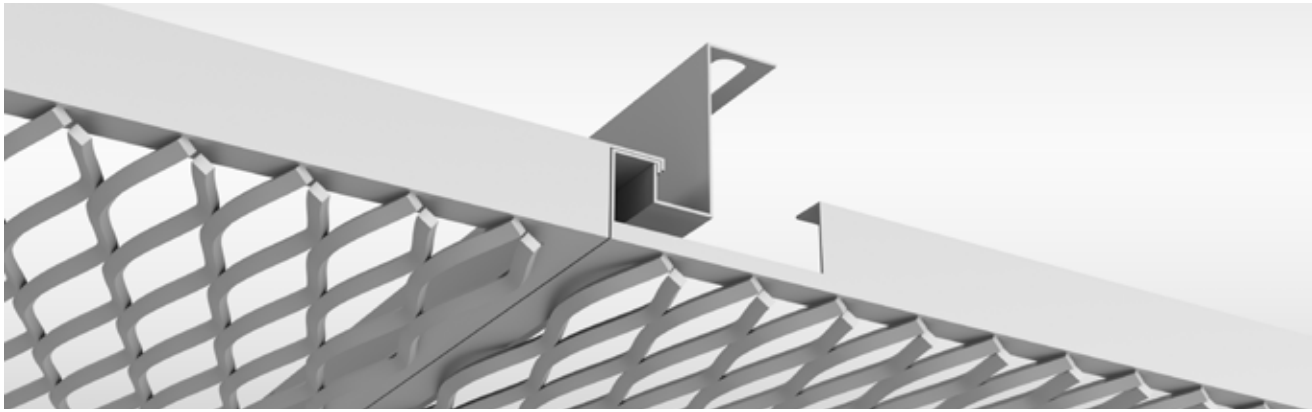
KRAFT MESH PANELS

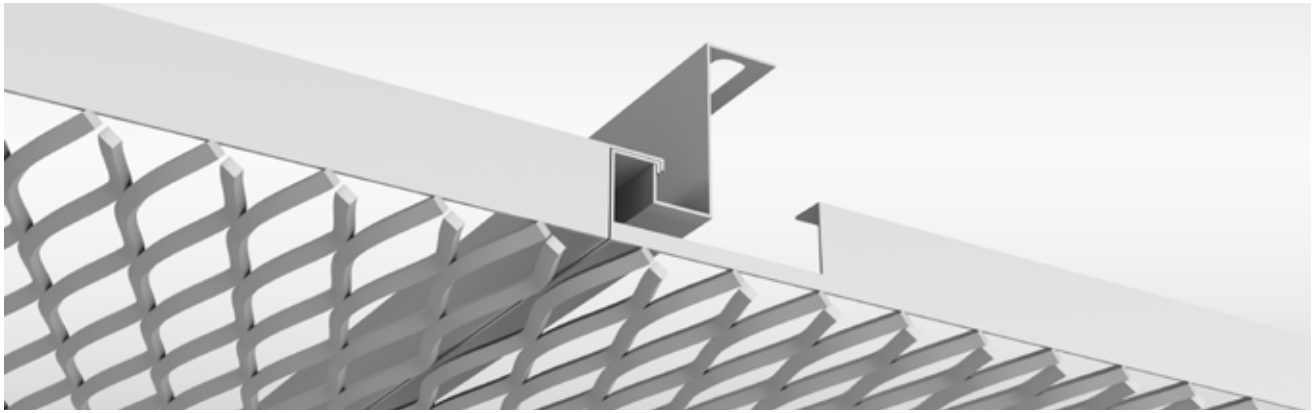
HOOK LOCK

Technical characteristics of panels

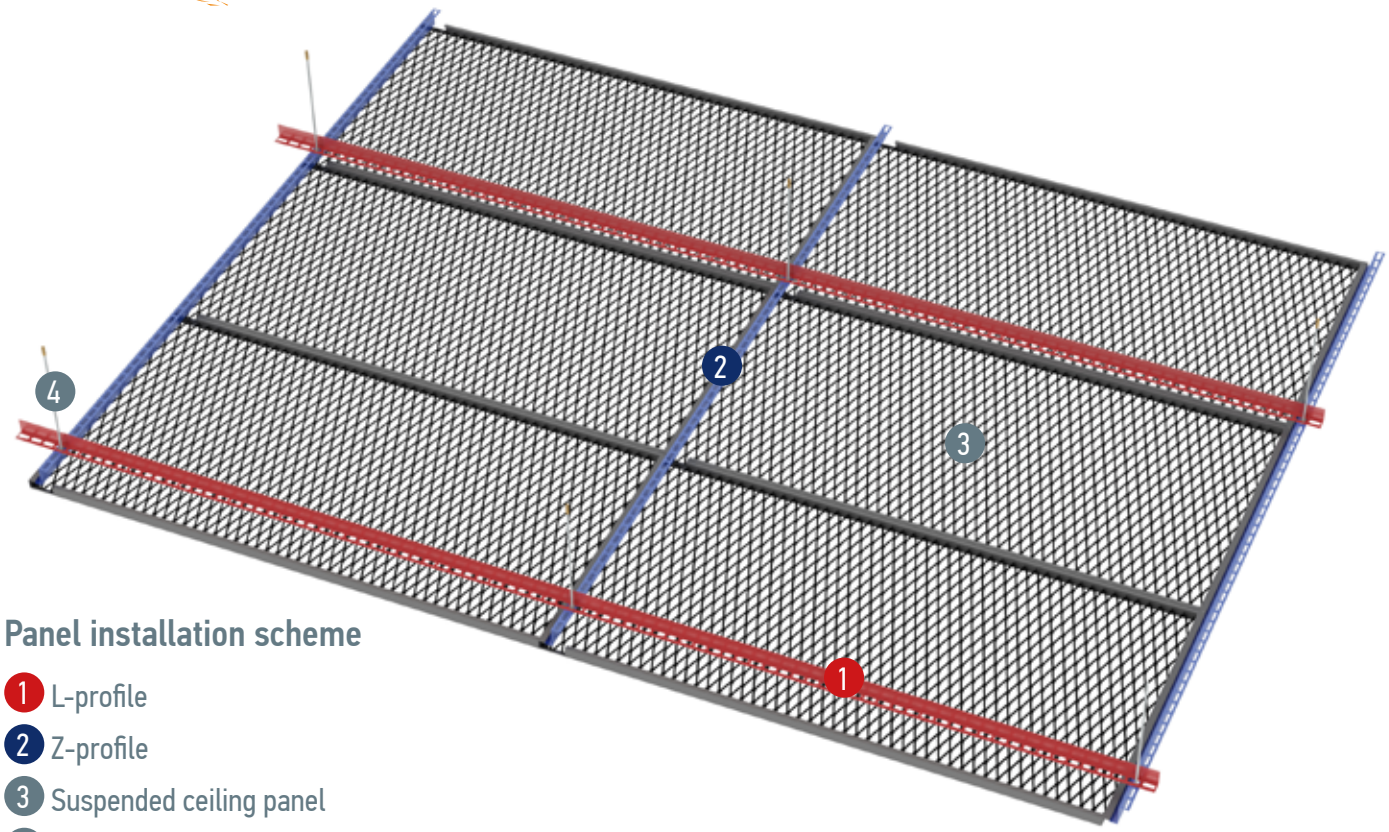
Specification	Hook Lock
Frame details	hook frame
Support structure	hidden type fixation on Z-profile
Standard panel sizes	600×600 mm, 600×1200 mm
Mesh metal thickness	1,0 mm
Coating thickness	60-80 microns
Colors	Any color from the RAL scale
Fire safety class	Euroclass A2-s1, d0 according to EN 13501-1
Acoustic properties	Additional acoustic filling with mineral fiber SOUNDTEX®
Moisture resistance (according to ECCA, EN 1396, ASTM D 2247, HR)	95%
Cell size	Standard

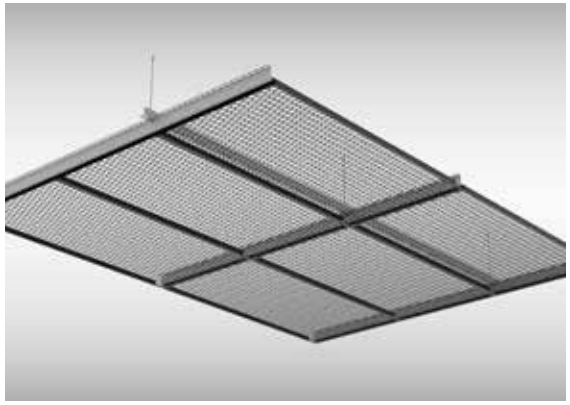


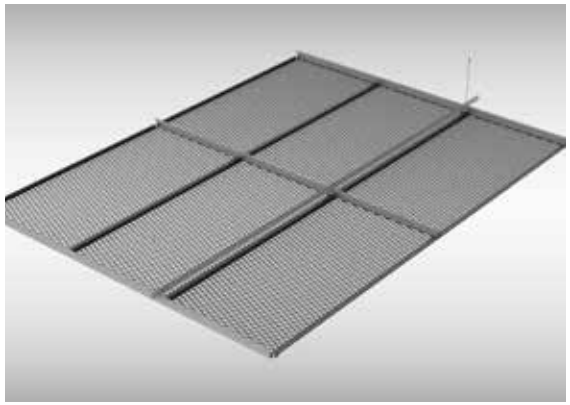




INSTALLATION DIAGRAM

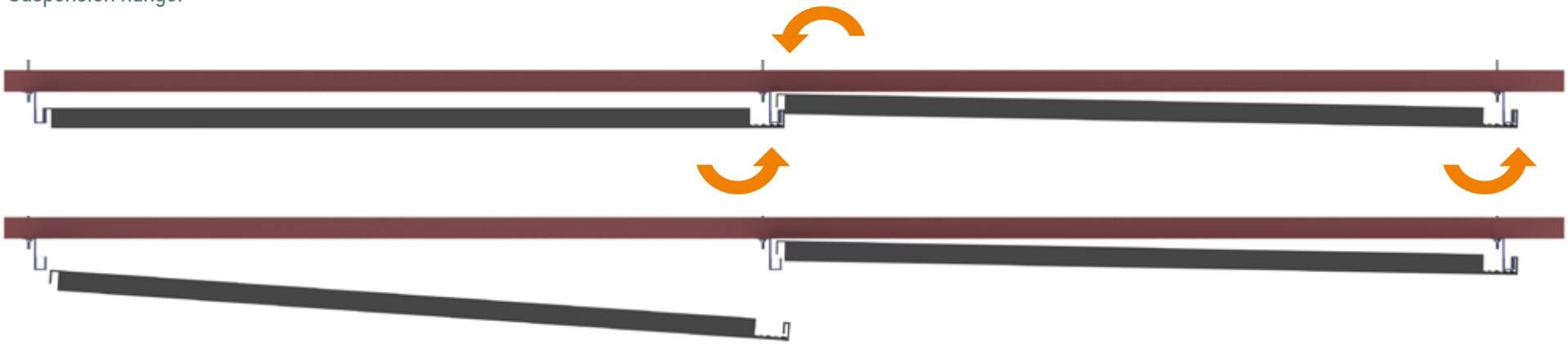






Panel installation scheme

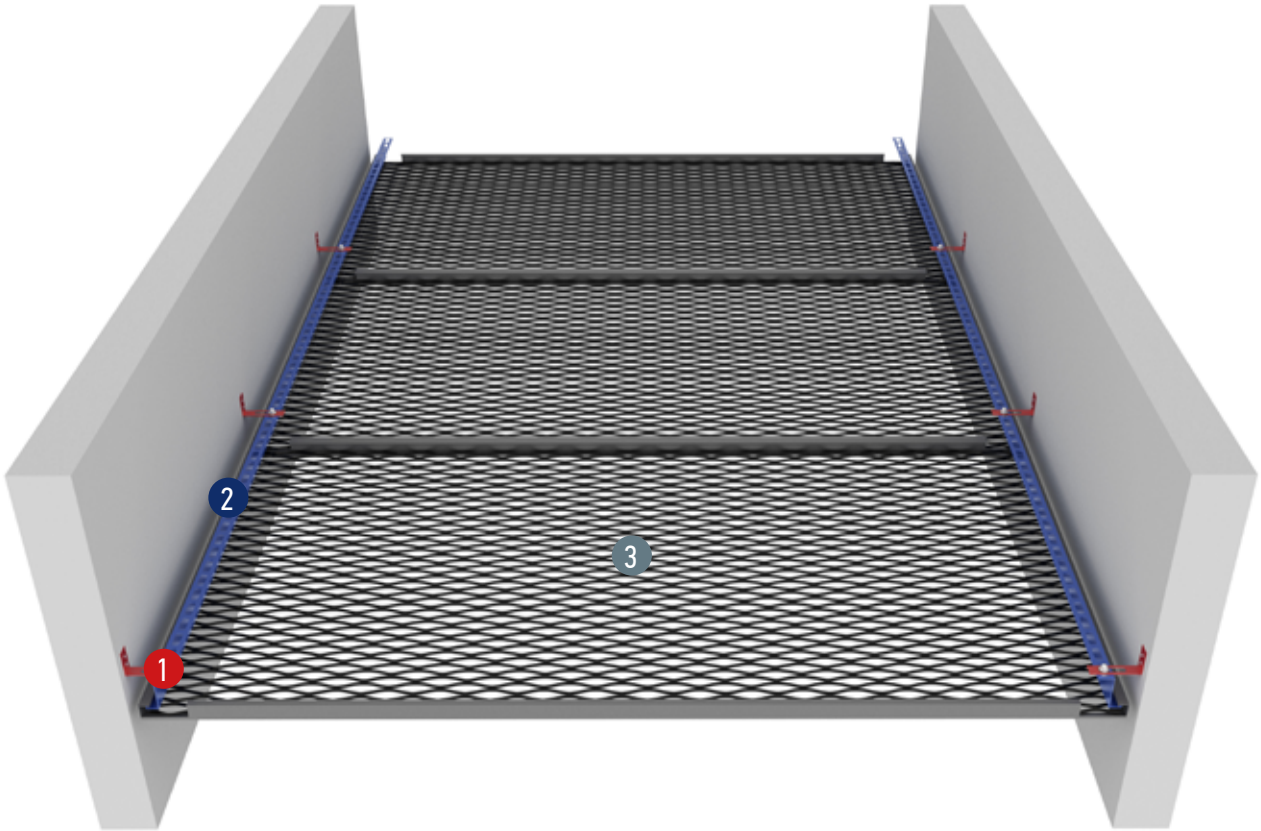
1. L-profile
2. Z-profile
3. Suspended ceiling panel
4. Suspension hanger



Hook Lock Corridor system – for narrow spaces

The Hook Lock Corridor system is a variation of the Hook Lock system, designed for corridor spaces, where panels are mounted to the walls without ceiling fixation. In this case, only a wall-mounted Z-profile is used for installation.

The system is also suitable for spaces where it is impossible to install a suspended ceiling or there are a large number of communications, cables, and ductworks. In this case, the fastening system is centrally fixed to the ceiling, and the other sides of the panels are mounted to the walls.



Panel installation scheme

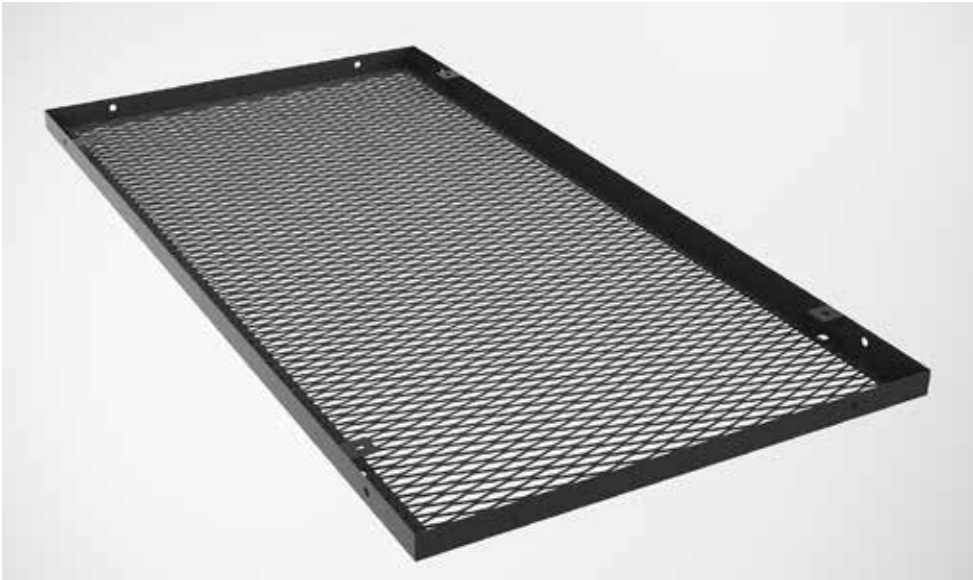
1. L-corner
2. Z-traverse
3. Suspended ceiling panel

KRAFT MESH PANELS

MESH CLOUD

Technical characteristics of panels

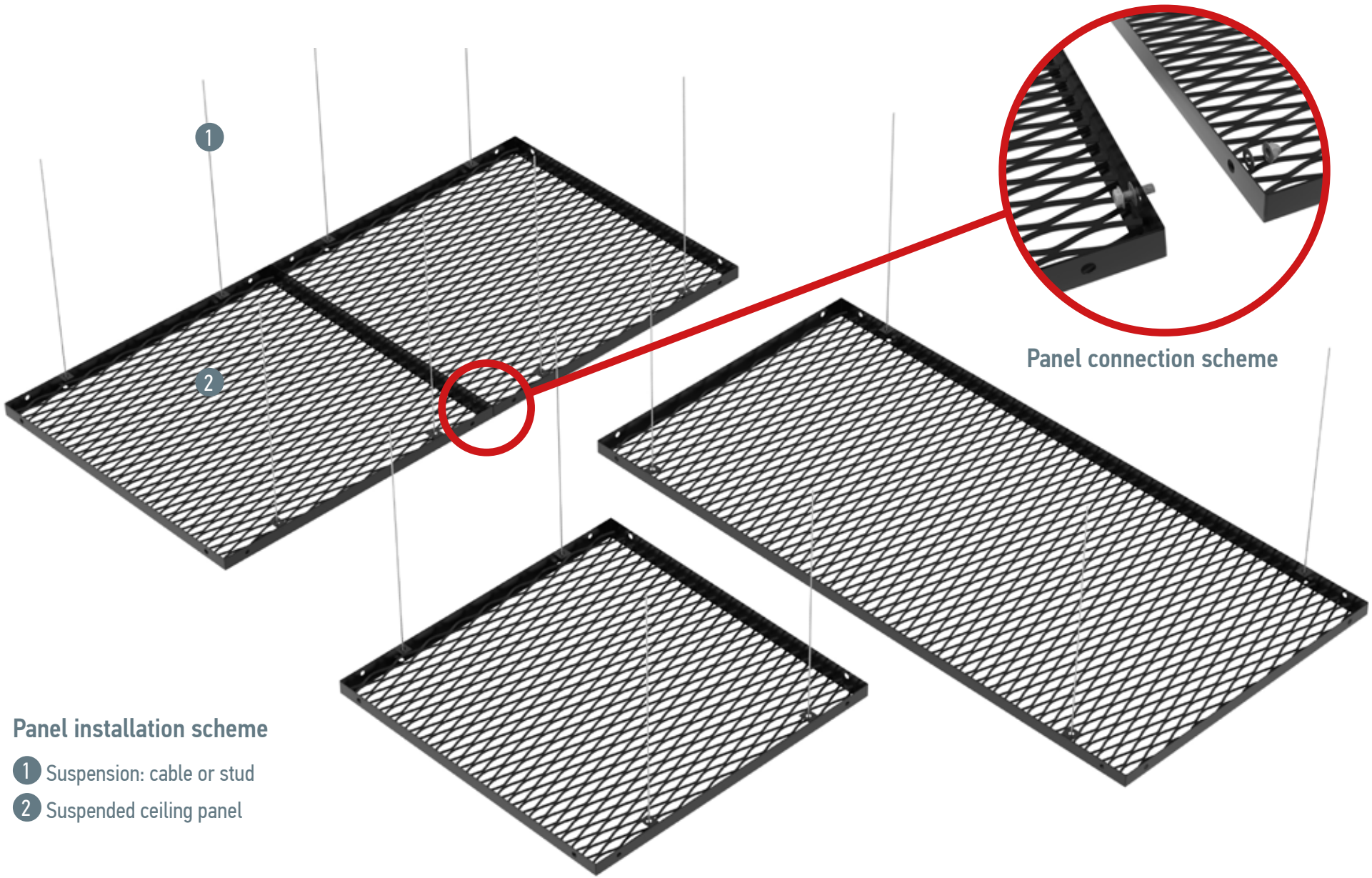
Specification	Mesh Cloud
Frame details	L-shaped frame with “ears”
Support structure	on a stud or cable
Standard panel sizes	600×600 mm, 600×1200 mm
Mesh metal thickness	1,0 mm
Coating thickness	60-80 microns
Colors	Any color from the RAL scale
Fire safety class	Euroclass A2-s1, d0 according to EN 13501-1
Acoustic properties	Additional acoustic filling with mineral fiber SOUNDTEX®
Moisture resistance (according to ECCA, EN 1396, ASTM D 2247, HR)	95%
Cell size	Standard



A feature of the Mesh Cloud mesh panels is that the system itself has a modular design. Panels can be used as individual elements, for example in the form of islands, or combined into large structures, allowing the creation of unique design solutions.

The use of Mesh Cloud panels is possible not only on ceilings but also on walls, facades, as partitions or railings and fences for stairs.

INSTALLATION DIAGRAM



Panel connection scheme

Panel installation scheme

1. Suspension: cable or stud
2. Suspended ceiling panel

Mesh panel installation schemes on facades

There are many types of fastenings for mesh panels on building facades and walls. Each type has its advantages. Therefore, the final decision on the use of the fastening system is made individually for each project.

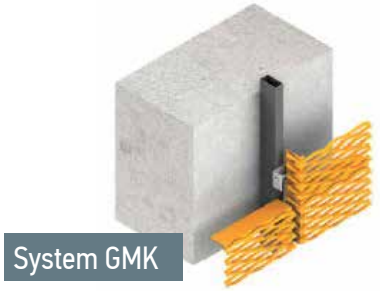
For more detailed information about the types of fastenings, contact our specialists.


System GMG


System GMH

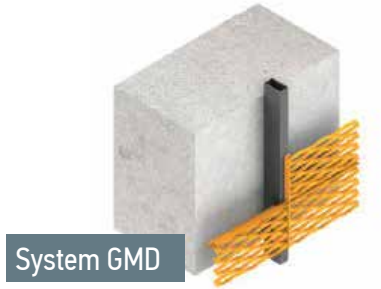

System GMA


System GMB


System GMK


System GML


System GMC

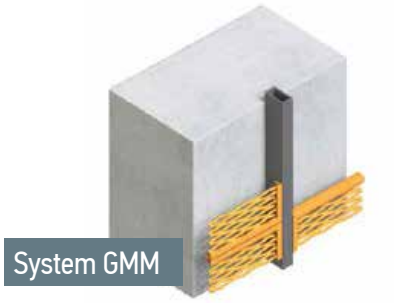

System GMD

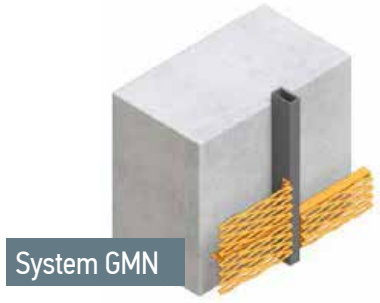

System GMI


System GMJ


System GME


System GMF


System GMM


System GMN

EXAMPLES OF USE

KRAFT MESH PANELS

EXAMPLES IN INTERIORS

EXAMPLES IN INTERIORS

Hook Lock Corridor

Mesh Cloud

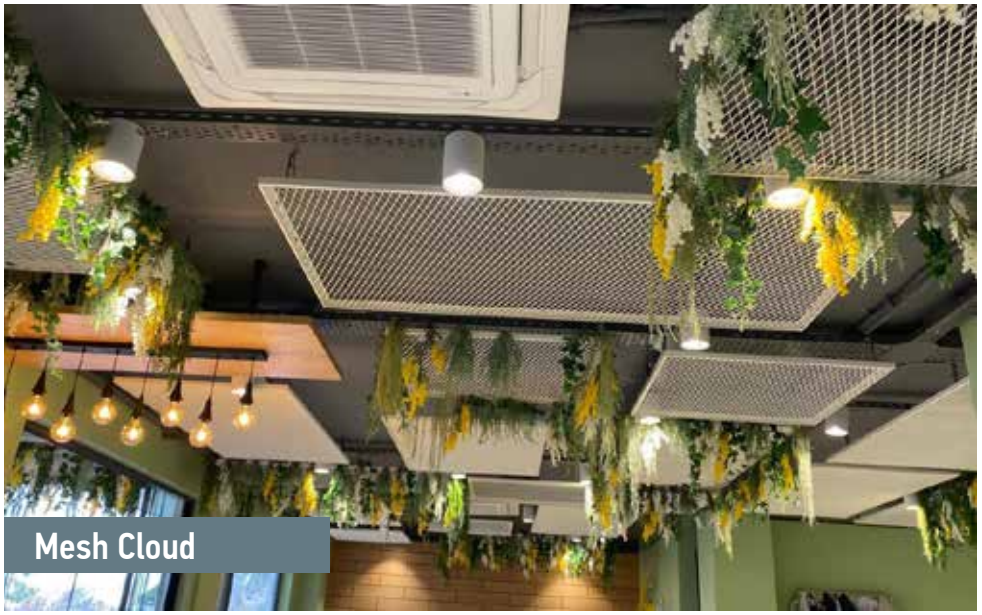
Hook Lock

Lay-IN T15

EXAMPLES IN INTERIORS

Mesh Cloud

Mesh Cloud



Mesh Cloud

Hook Lock

EXAMPLES IN INTERIORS

Hook Lock

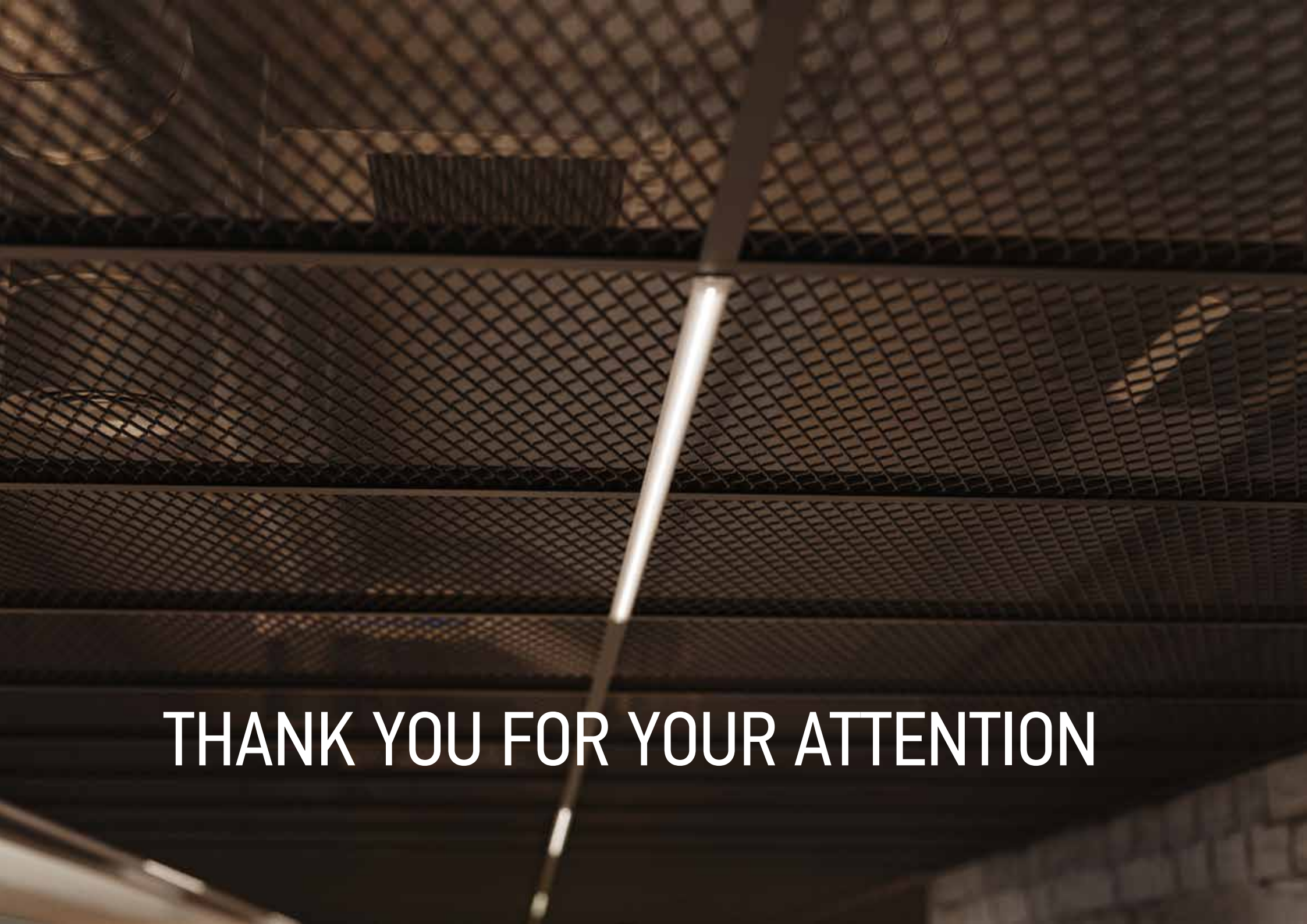
Hook Lock

Mesh Cloud

Hook Lock

KRÄFT Deckensysteme

VARIETY OF COLORS


THANK YOU FOR YOUR ATTENTION