



CEILING SYSTEMS

[Between us, ideas become reality.]

Metalfoam

aluminium-foam
inspired by AlCarbon®



Aluminium foam

Galvanised sheet steel and aluminium foam are used as standard for the Metalfoam ceiling panels.

The ALPORAS® - AC panels are made of foamed, pure aluminium with closed cell walls and surfaces cut with open pores. ALPORAS is produced by adding calcium and titanium hydride as blowing agent to the pure aluminium melt under controlled conditions in the blast furnace process. The hot mass is cast in an ingot mould and the melt solidifies to form a cellular foam structure with the aid of an air shower. The density of the aluminium foam thus produced (0.2 - 0.25 g/cm³) is then approximately only 10 % of solid aluminium (2.7 g/cm³). ALPORAS® - AC foam panels are 100 % recyclable, non-flammable and lend themselves well to machining operations. Aluminium foam panels have a wide field of use. For applications not involving ceilings, you may contact our partner AlCarbon Technologie GmbH (www.alcarbon.com).

Quality, service & safety

Armstrong is certified to ISO quality standard. Material properties, dimensional accuracy and colouring are based on our quality directives, which correspond to the TAIM directives. (Technischer Arbeitskreis Industrieller Metalldeckenhersteller e.V. Frankfurt/Main. = Technical Working Group of Industrial Metal Ceiling Manufacturers)

Acoustics

With suspended ceiling systems, the acoustic effect is often of central importance. Smooth ceilings reflect sound, perforated ceilings absorb sound according to their arrangement.

The cellular foam structure combined with perforated sheet steel means we attain good acoustic values with the Metalfoam ceiling panels. Metalfoam ceiling panels affect the acoustic properties of a room as desired.

Inlays

The panel inlay can have a decisive impact on physical characteristics of a Metalfoam ceiling panel, such as acoustics and heat insulation. Call your Armstrong consultant. He will be pleased to advise you.

Subconstruction

The GemaGrid suspension system is specially developed for Armstrong metal ceilings and co-ordinated with these. The Metalfoam ceiling panels are suited for combination with various Armstrong systems. That is why the many advantages exhibited by the Gema-Grid suspension system naturally also apply to the Metalfoam ceiling panels. Special mention should be made here of easy handling during assembly, complete compatibility with all Armstrong systems and very high cost-effectiveness.

Material

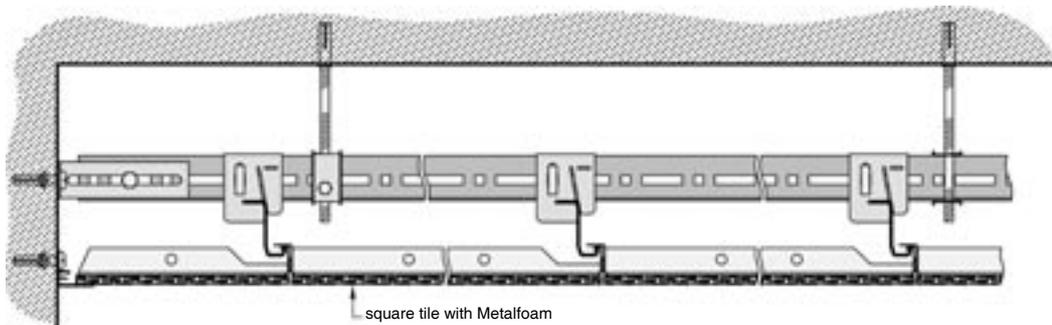
The Metalfoam ceiling panels are manufactured from 0.5 - 0.7 mm galvanised sheet steel and 6 mm aluminium foam as standard.

Colours

The Metalfoam ceiling panels are available in a natural aluminium colour. Metalfoam is available colour-coated or colour-coated with an additionally ground pore finish on request.

Metalfoam inspired by AlCarbon® can be combined with the Armstrong products. Detailed solutions for two systems are shown on the next page.





Example Q-H 100 F *with Metalfoam*

The weight of the Q-H 100 F Metalfoam tile including Ge-maGrid subconstruction is approx. 8 kg/m².

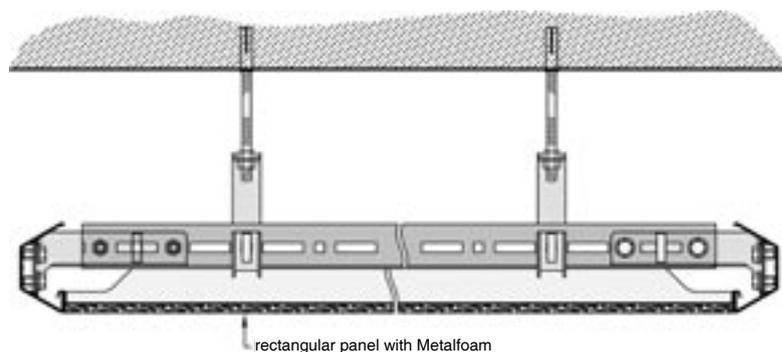
Standard panel modules
600 x 600 mm and 625 x 625 mm

Example D-H 710 Frame *with Metalfoam*

With the D-H 700 frame, Metalfoam ceiling panels can be combined with a frame providing a colour contrast.

Panel size
length (A) 599 - 2'400 mm (25 mm steps)
width (B) 247 - 600 mm (25 mm steps)
max. panel size: 1.44 m²

special formats on request



Metalfoam - metal ceilings combined with aluminium foam

Perfect design

Lightness and design go hand in hand nowadays. Whereas buildings usually used to be pompous and heavy, today filigree structures are required. Metalfoam ceiling panels, an exclusive new product from Armstrong, fulfil the requirements of our times - let yourself be inspired.

Metalfoam inspired by AlCarbon® lends itself to use wherever the quest is for visually attractive solutions with a high degree of technical innovation. Due to the cellular structure, the Metalfoam ceiling panels combine stability with a unique design. They are of premium quality and generate an aura of exclusivity.

The porous structure

The Metalfoam ceiling panels made from ALPORAS® - AC aluminium are produced by introducing gas into the melt. This process creates the porous structure of the material. Similar to the growth of trees, the multiplicity and relative distribution of the pores generate unique patterning across the ceiling panels. In other words, each Metalfoam ceiling is absolutely unique in itself.

Exclusive patterning

Special lacquering of the Metalfoam ceiling panels allows a range of colour variations to be offered which can enhance or modify the optical effects; particularly attractive are the coloured ceiling panels with a ground finish. Exclusive patterning originates from the micro-structured surface thus created, which is quite unique in kind. The freely foamed pores varying in shape and depth lend a distinctive design to the Metalfoam ceiling panels as a result of the incident light.

Metalfoam ceiling panels comply with fire regulations and - like all Armstrong products - are soundabsorbing. All ceiling systems are offered in the typical high quality of Armstrong.

Your Armstrong consultant will be pleased to give you individual advice.



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