

Technical Data Sheet

Hook-On Mesh Ceiling System

Product Description

The Ballesta Hook-On Mesh Ceiling System is a suspended metal ceiling solution combining aluminum mesh panels with a factory-fitted perimeter frame. The frame is engineered for standard hook-on suspension, allowing quick installation from below. The system supports mixed panel configurations — mesh panels can be combined with solid aluminum panels on the same framework for a unified visual appearance. Panel joints can be specified as visible edge connections or seamless full-mesh layouts.

Key Features

- Factory-fitted aluminum perimeter frame on each mesh panel
- Standard hook-on suspension — compatible with standard suspension components
- Mix mesh panels and solid panels on the same system for visual integration
- Optional visible-edge or seamless full-mesh panel joint configurations
- Fully custom dimensions; standard modules: 1250×2200, 1100×1250, 1000×1700 mm
- Panel thickness: 1.5 mm (aluminum panel)
- Easy access from below — individual panels can be demounted without disturbing adjacent panels
- Suitable for large-span continuous ceiling planes and modular grid layouts

Technical Specifications

Parameter	Specification	Notes
Product Type	Hook-On Mesh Ceiling	Suspended ceiling system
Material	Aluminum Alloy 3003 / 5005	H14/H24 temper
Panel Thickness	1.5 mm	Aluminum panel
Frame Material	Aluminum extrusion	Factory-fitted
Standard Module Sizes	1250×2200 / 1100×1250 / 1000×1700 mm	Custom sizes available
Tolerance	Length: ±1.5 mm, Width: ±1.0 mm	Per ASTM B209
Suspension System	Hook-on (C Channel + Z-Keel)	Standard suspension grid
Finish	Spray coating — any RAL color	Also: woven / expanded / perforated mesh
Fire Rating	Class A (ASTM E84)	Non-combustible aluminum
Panel Weight	Approx. 3.5 – 5.5 kg/m²	Depends on mesh type
Joint Options	Visible edge / Seamless full-mesh	Specify at order
Maintenance	Wipe clean with damp cloth	No special treatment required

Installation Sequence

1. Install hanger rods from the structural slab at designed grid spacing.
2. Attach and level the C Channel (main support) using adjustable hanger clips.
3. Install Z-Shape Hook Keels perpendicular to the C Channel at panel width intervals.
4. Hook each mesh panel (with factory-fitted frame) onto the Z-Keel flanges from below.

5. Adjust panel alignment — panels can be individually repositioned or removed for access.

Frame Finishes

The aluminum frame is finished with durable spray coating. Available in any RAL color to match your design palette. The mesh infill can be specified as:

- Woven Wire Mesh — tight weave pattern with uniform openings
- Expanded Metal Mesh — diamond-shaped openings, high strength-to-weight ratio
- Perforated Mesh — round or square hole patterns available in multiple open areas
- Solid Aluminum Panel — for mixed panel configurations

Typical Applications

- Airport terminals and transit lounges — large-span continuous ceiling planes
- Metro and railway stations — durable, easy-access ceiling for service zones
- Shopping malls and commercial atriums — architectural statement ceiling with mechanical access
- Office lobbies and public halls — mix of mesh and solid panels for visual rhythm
- Sports facilities and exhibition centers — impact-resistant, high-bay ceiling solution

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