ATENA S.P.A. HAS A QUALITY MANAGEMENT SYSTEM CERTIFICATED BY RINA IN COMPLIANCE WITH ISO 9001

Metal Baffle
Standard Series
Single Structure

Recommended configuration for Baffle Systems weighing ≤ 10 kg/m²

For Baffle Systems weighing > 10 kg/m² the double structure is recommended. See datasheet "Baffle Standard Serie, Double Structure".

For a precise ceiling sizing in relation the project features, contact the Atena S.p.A. technical office.

ELEMENTS DIMENSION

20 x 60 (hook on)
25 x 50 (hook on)

TB 20 carrier
TB 25 carrier

standard sections
30 x 64 | 100 | 150 | 200
40 x 100 | 140 | 180
50 x 100 | 150 | 200 | 300
80 x 80 | 100
100 x 300

TRB carrier with predefined variable distances

TS carrier for distances and/or bases out of measure

Baffle maximum lenght ~ 4000 mm.
Other heights on request up to 400 mm.

MATERIALS
Aluminum and steel
Thickness according to the project and product requirements

STRUCTURE
Baffle interlocking carriers made up of black prepainted steel thickness 8/10 or with RAL/NCS post-painting on request
Locking system

ANTISEISMIC EQUIPMENTS
Atena Antiseismic kit for ≤ 1,2 m plenum
Atena Antiseismic kit for > 1,2 m high plenum

HANGERS
Double hanger with spring or threaded bar
Suspensions to evaluate according to the load at m², to the project features and antiseismic requirements.

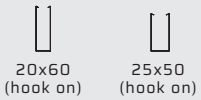
BAFFLE COLORS
Atena white, Atena silver pre-painted steel
Atena white, Atena silver pre-painted aluminum
RAL / NCS coatings

FINISHING
Plain or perforated surface
Wood effects | Sublimation and digital printing of images and effects

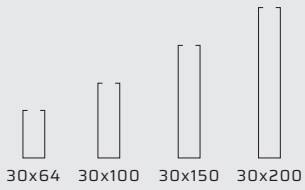
PERFORATION
To choose among Atena perforation range

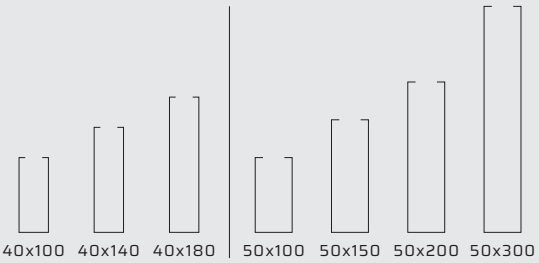
ACCESSORIES
Smooth closing caps on request, Baffle and carriers joints, alignment clips, different heights kit with Tilt Spin system hook.

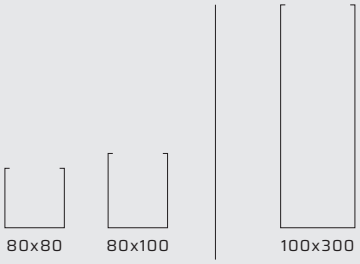
BAFFLE HOOK ON



STANDARD BAFFLE SECTIONS







TECHNICAL PERFORMANCES

FLEXION RESISTANCE	Maximum span mm 1200 - **1 Class** EN13964
CORROSION RESISTANCE	Galvanized steel products: **C2 Class** Pre-painted galvanized steel products: **C3 Class** Post-painted galvanized steel products: **C4 Class** Pre/post-painted aluminium products: **C5 Class**
(RH%) RELATIVE HUMIDITY RESISTANCE	Galvanized steel products: ≤ **90%** Pre/post-painted galvanized steel products: > **90%** Stainless steel and aluminium products: > **90%**
FIRE REACTION UNI EN 13501-1	Structure, suspensions and wall angles: **A1 Class** Smooth or perforated Baffle with Plus acoustic fleece: **A1 Class** Perforated Baffle with Standard acoustic fleece: **A2s1d0 Class**
ACOUSTICS	Information in “Acoustic Performance”
CLEANING	Wet cloth with warm water and neutral non-abrasive detergents.
COLOR STABILITY	In compliance with technical tolerances standard. Test according the ΔE - CIELab method. ISO 7724-2 (3)

DURABILITY OF PAINTED ITEMS	C Class EN13964	**GALVANIZED DURABILITY**	B Class EN13964

SUSTAINABILITY

Data declared according to ISO 14021 standard and validated during the EPD verification. Type III environmental labelling.

RECYCLED PRODUCT CONTENT	Compliance CAM 2.5.8	**GREEN BUILDING**	Requirements compliance: **LEED® | BREEAM® | WELL™** CAM 1.3.4
MATERIAL DEMOLITION AND REMOVAL	Non hazardous waste in compliance with CAM 2.6.2.	**GREEN ENERGY**	Renewables prevalent use CAM 1.2
DISASSEMBLY	Steel | Aluminium 100% recyclable CAM 2.6.2 | 2.4.14	**WASTE MANAGEMENT**	Compliance CAM 2.6.2.
ACOUSTIC PERFORMANCE	CAM 2.4.11	**BIM DESIGN AND MAINTEINANCE PLAN OF THE WORK**	CAM 2.7.3 | 2.4.13
SVHC PRESENCE	Compliance CAM 2.5.7	**FORMALDEHYDE**	Absent E1 Class CAM 2.5.1. | 3.2.8
RELEASE OF DANGEROUS SUBSTANCES	None CAM 2.5.1. | 3.2.8 EN13964	Requirement 2.5.1 - Compliance on all products. Rewarding requirement 3.2.8 - Compliance for post painted products with “Gold Leaf” high performance coating.	

BAFFLE FEATURES

Table 1 shows the recommended thicknesses in relation to the model and type of finishing.

For specific requests regarding dimensions, colors and perforation patterns other than those indicated in the data sheet and catalogue, please contact the sales department.

Perforations

Perforations range at page 9 of this data sheet.
Please note that the AP 0.75/2% P perforation is not available in 7/10 thickness.

Steel standard woods

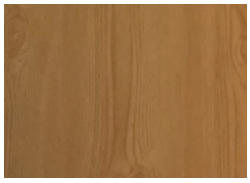
L04 - LIGHT MAPLE
5-6/10 steel

L05 - MEDIUM DURMAST
6/10 steel

L06 - DARK WALNUT
6/10 steel

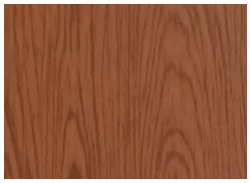
Aluminum standard woods

L40 - ROUGH WHITE
5-6-7/10 aluminum

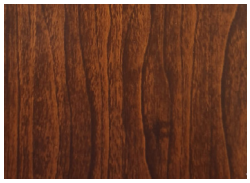


L07 - MEDIUM PINE
5-6-7/10 aluminum

L13 - CHENE IRLANDAIS
5-6-7/10 aluminum



L17 - OREGON 4
5-6-7/10 aluminum



L14 - MADERA BRAZIL
5-6-7/10 aluminum

(Tab. 1)

STAVE	DIMENSIONS	STEEL THICKNESS PRE/POST PAINTED	STEEL THICKNESS PREPAINTED WOOD	ALUMINUM THICKNESS PRE/POST PAINTED	ALUMINUM THICKNESS PREPAINTED WOOD	CARRIER		ACOUSTIC TISSUE****
						TYPE	MATERIAL	
BASE 20 Hook on	L 20 - H 60	5/10	5/10*	5/10	5/10	TB 20	8/10 STEEL	APPLICABLE
BASE 25 Hook on	L 25 - H 50	5/10	5/10*	5/10	5/10	TB 25	8/10 STEEL	APPLICABLE
BASE 30	L 30 - H 64	5/10	5/10* | 6/10	5/10 | 6/10	5/10 | 6/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 30 - H 100	6/10	6/10	6/10 | 7/10	6/10 | 7/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 30 - H 150	6/10	6/10	7/10	7/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 30 - H 200	6/10 | 7/10**	6/10	7/10	7/10	TRB | TS	8/10 STEEL	NA
BASE 40	L 40 - H 100	6/10	6/10	6/10 | 7/10	6/10 | 7/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 40 - H 140	6/10	6/10	7/10	7/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 40 - H 180	6/10 | 7/10**	6/10	7/10	7/10	TRB | TS	8/10 STEEL	NA
BASE 50	L 50 - H 100	6/10	6/10	6/10 | 7/10	6/10 | 7/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 50 - H 150	6/10 | 7/10**	6/10	7/10	7/10	TRB | TS	8/10 STEEL	APPLICABLE
	L 50 - H 200	6/10 | 7/10**	6/10	7/10	7/10	TRB | TS	8/10 STEEL	NA
	L 50 - H 300	7/10	6/10	10/10 - (f)*****	NA	TRB | TS***	8/10 STEEL	NA
BASE 80	L 80 - H 80	6/10	6/10	7/10	7/10	TS	8/10 STEEL	APPLICABLE
	L 80 - H 100	6/10 | 7/10**	6/10	7/10	7/10	TS	8/10 STEEL	APPLICABLE
BASE 100	L 100 - H 300	ON PROJECT	ON PROJECT	10/10 - (f)*****	NA	***	-	NA

* L04 Light Maple wood effect in 5/10 pre-painted steel only. | NA = Not applicable

** 7/10 Recommended thickness, for other thicknesses check with the sales department according to the project features.

*** Steel Baffle L50 h300 and steel/aluminum Baffle L100 h300 can be installed only with its proper point to point suspension system.
Aluminum Baffle L50 h300 can be installed both with carriers and point to point suspension system.

**** Acoustic tissue is available only for Baffle in standard white Atena shades, wood effects and pre-painted colors having an overall material width less than 395 mm.
In perforated post-painted steel and aluminum models, acoustic tissue is not applicable, wrapped wadding or rock wool are suggested | NA = Not applicable

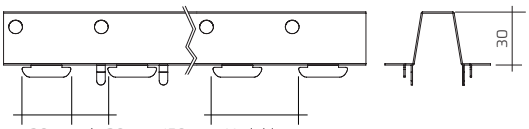
***** 10/10 Aluminium Baffle L50 h300 | L100 h300 are available with smooth surface or with only the perforation AP 2/12,5%P config. A | B more detail at page 9.

All dimensions are nominal and expressed in millimeters.
All technical specification data and information can be changed without advise.
For further information please contact sales department:
tel. + 39 0421 75526 export@atena-it.com

AXONOMETRY AND SECTION OF TRB CARRIER SYSTEM

30x64 | 100 | 150 | 200
40x100 | 140 | 180
50x100 | 150 | 200 | 300*
80x80 | 100

TRB carrier view

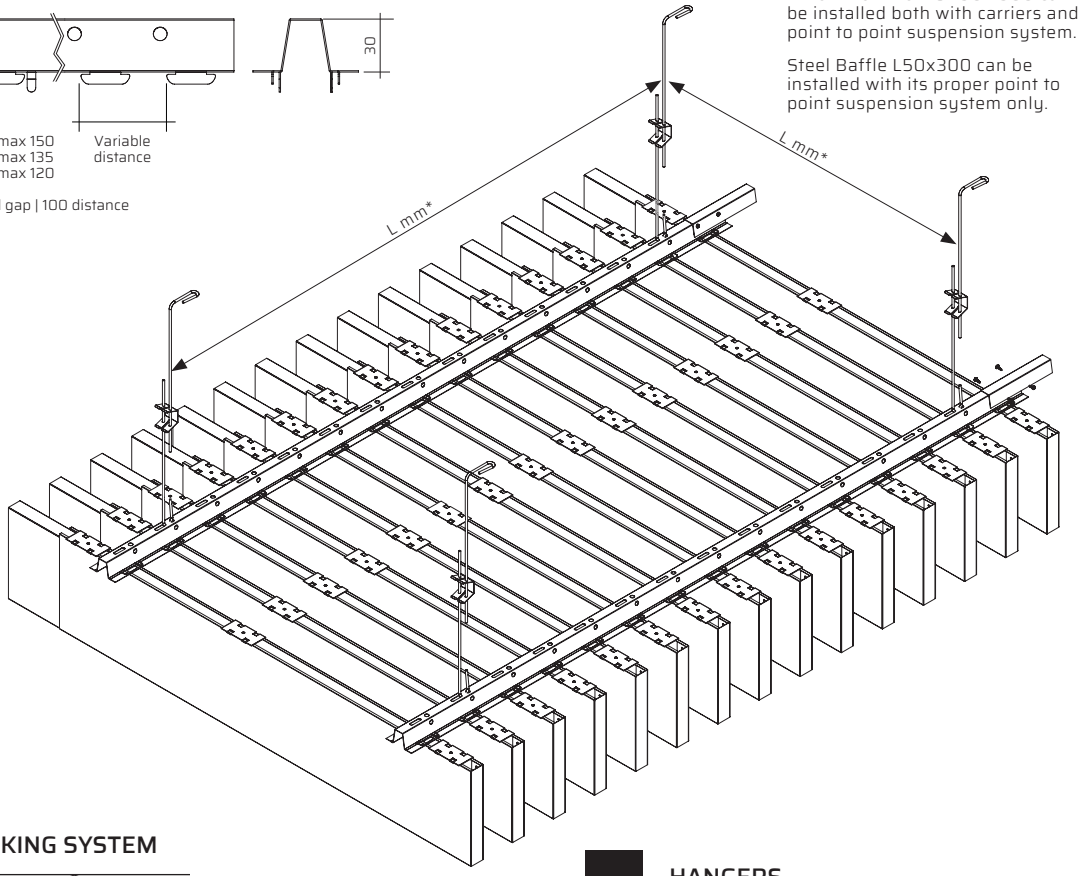


30 min 20 max 150 Variable
40 min 20 max 135 distance
50 min 20 max 120

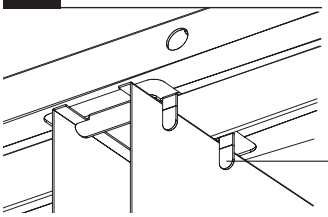
80 20 fixed gap | 100 distance

* Aluminum Baffle L50 h300 can be installed both with carriers and point to point suspension system.

Steel Baffle L50x300 can be installed with its proper point to point suspension system only.

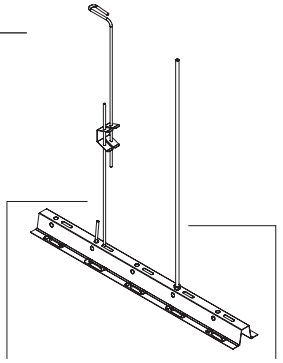


LOCKING SYSTEM



HANGERS

*verify **interaxes** and **hanger models** according to the load at m² the antiseimic report and particular conditions when required.The **fastening** must be checked with regard to the loads, the anchoring base features and the installation accuracy, in order not to compromise the stability of the metal ceiling system. Lightings, accessories and systems must not weigh on the metal ceiling system, but must be independently suspended.



Double hanger Ø4 mm with spring

Threaded bar Ø6 mm

COMPONENT INCIDENCES

ID	DESCRIPTION	INCIDENCE*
1	BAFFLE SERIE 30 | 40 | 50 | 80	-
2	HANGERS	1 pcs/sqm
3	TRB CARRIER TRB 30 | 40 | 50	1 lm/sqm

ANTISEISMIC EQUIPMENTS

According to the NTC 2018, when the non-structural element is assembled on site: structure designer is in charge of identifying the request, the supplier and / or installer is in charge of providing elements and connection systems of adequate capacity, the project manager is in charge of verifying the accuracy of installation". Therefore it is necessary to communicate to Atena the stresses acting on the false ceiling (seismic acceleration, wind load,..) in order to allow a proper calculation of the single elements. For more information on Atena's anti-seismic systems, contact the reference sales offices. The documentation on the site is for example only. (NTC 2018 § 7.2.3-7.2.4).

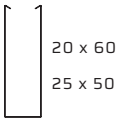
COMPONENT PITCHES

BAFFLE WEIGHT	CARRIER	"U" PROFILE*	HANGERS	
Kg/m²	Pitch (mm)	Pitch (mm)	Type	Pitch (mm)
< 6	1200	-	Double hanger with spring	900
> 6 < 10	900	-	Threaded bar Ø6 mm	900
> 10 < 13	800	1000		900
>13	To be verified according project requirements			

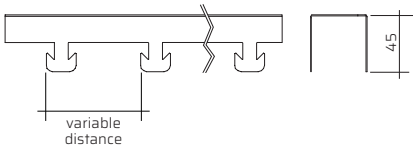
* "U" profile for double structure must always be used for baffles >10kg/m² or when anti-seismic kits are required. For anti-seismic sizing purposes, the type of suspension and components pitch must always be verified.

All dimensions are nominal and expressed in millimeters.
All technical specification data and information can be changed without advise.
For further information please contact sales department:
tel. + 39 0421 75526 export@atena-it.com

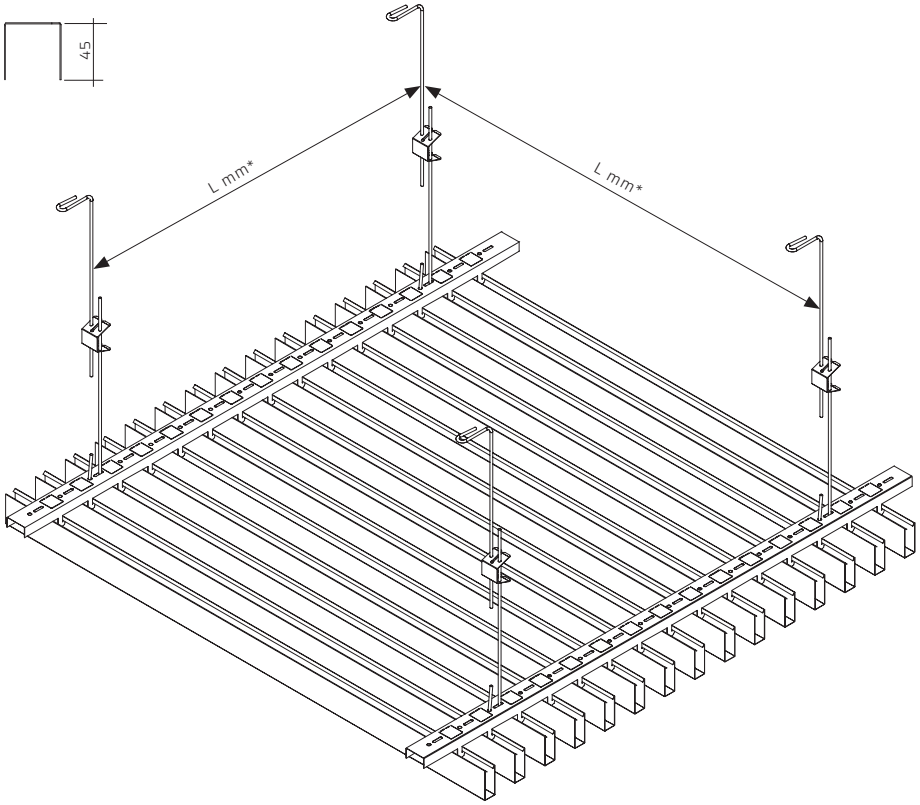
AXONOMETRY AND SECTION BAFFLE BASE 20/25 WITH BASE 20/25 CARRIER SYSTEM



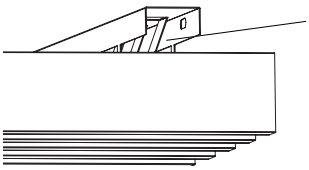
Base 20/25 carrier view



*10 mm minimum gap



LOCKING SYSTEM



COMPONENT INCIDENCES

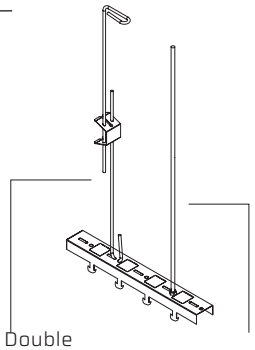
ID	DESCRIPTION	INCIDENCE*
1	BAFFLE SERIE 20 | 25	-
2	HANGERS	1 pcs/sqm
3	BASE 20 | 25 CARRIER	1 lm/sqm

ANTISEISMIC EQUIPMENTS

According to the NTC 2018, when the non-structural element is assembled on site: structure designer is in charge of identifying the request, the supplier and / or installer is in charge of providing elements and connection systems of adequate capacity, the project manager is in charge of verifying the accuracy of installation". Therefore it is necessary to communicate to Atena the stresses acting on the false ceiling (seismic acceleration, wind load,..) in order to allow a proper calculation of the single elements. For more information on Atena's anti-seismic systems, contact the reference sales offices. The documentation on the site is for example only. (NTC 2018 § 7.2.3-7.2.4).

HANGERS

*verify **interaxes** and **hanger models** according to the load at m² the antiseimic report and particular conditions when required.The **fastening** must be checked with regard to the loads, the anchoring base features and the installation accuracy, in order not to compromise the stability of the metal ceiling system. Lightings, accessories and systems must not weigh on the metal ceiling system, but must be independently suspended.



COMPONENT PITCHES

BAFFLE WEIGHT	CARRIER	"U" PROFILE*	HANGERS	
Kg/m²	Pitch (mm)	Pitch (mm)	Type	Pitch (mm)
< 6	1200	-	Double hanger with spring	900
> 6 < 10	900	-	Threaded bar Ø6mm	900
> 10 < 13	800	1000		900
>13	To be verified according project requirements			

* "U" profile for double structure must always be used for baffles >10kg/m² or when anti-seismic kits are required. For anti-seismic sizing purposes, the type of suspension and components pitch must always be verified.

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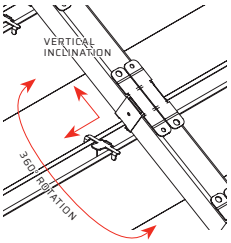
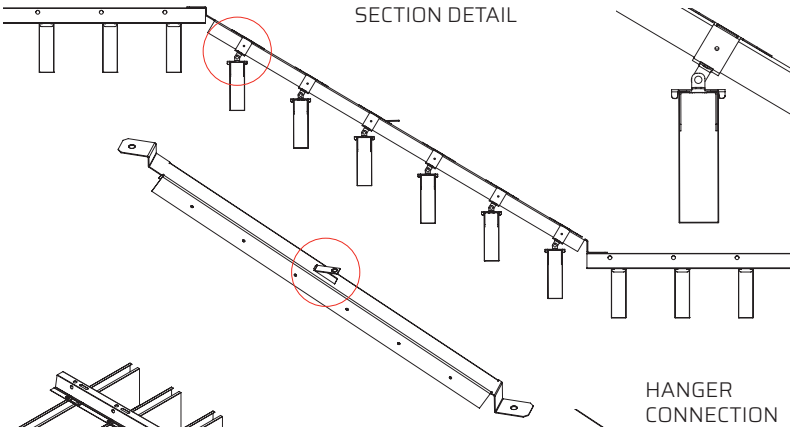
tel. + 39 0421 75526 export@atena-it.com

AXONOMETRY AND SECTION DIFFERENT HEIGHTS SYSTEM

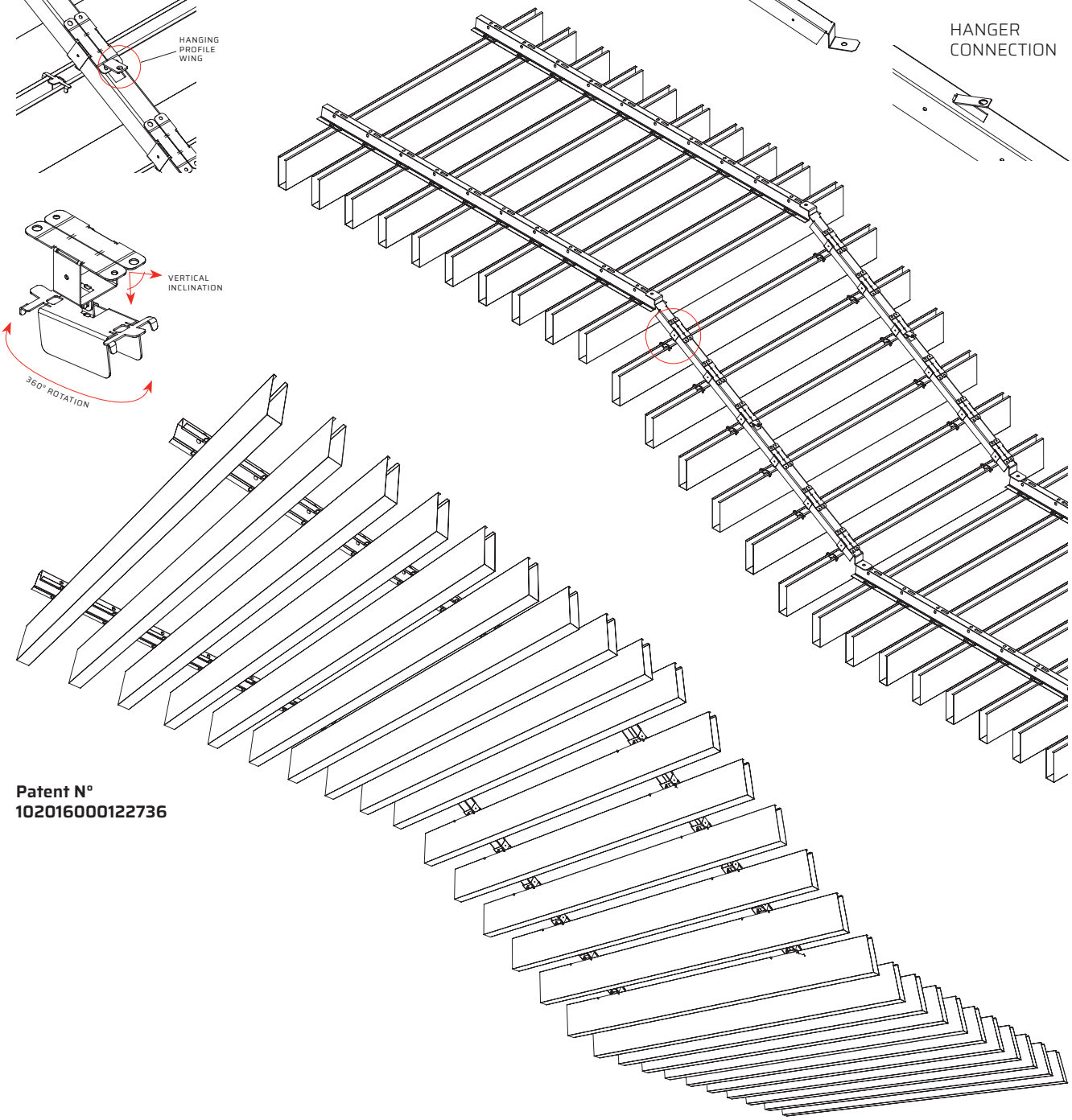
TILT-SPIN SYSTEM DETAIL



SECTION DETAIL



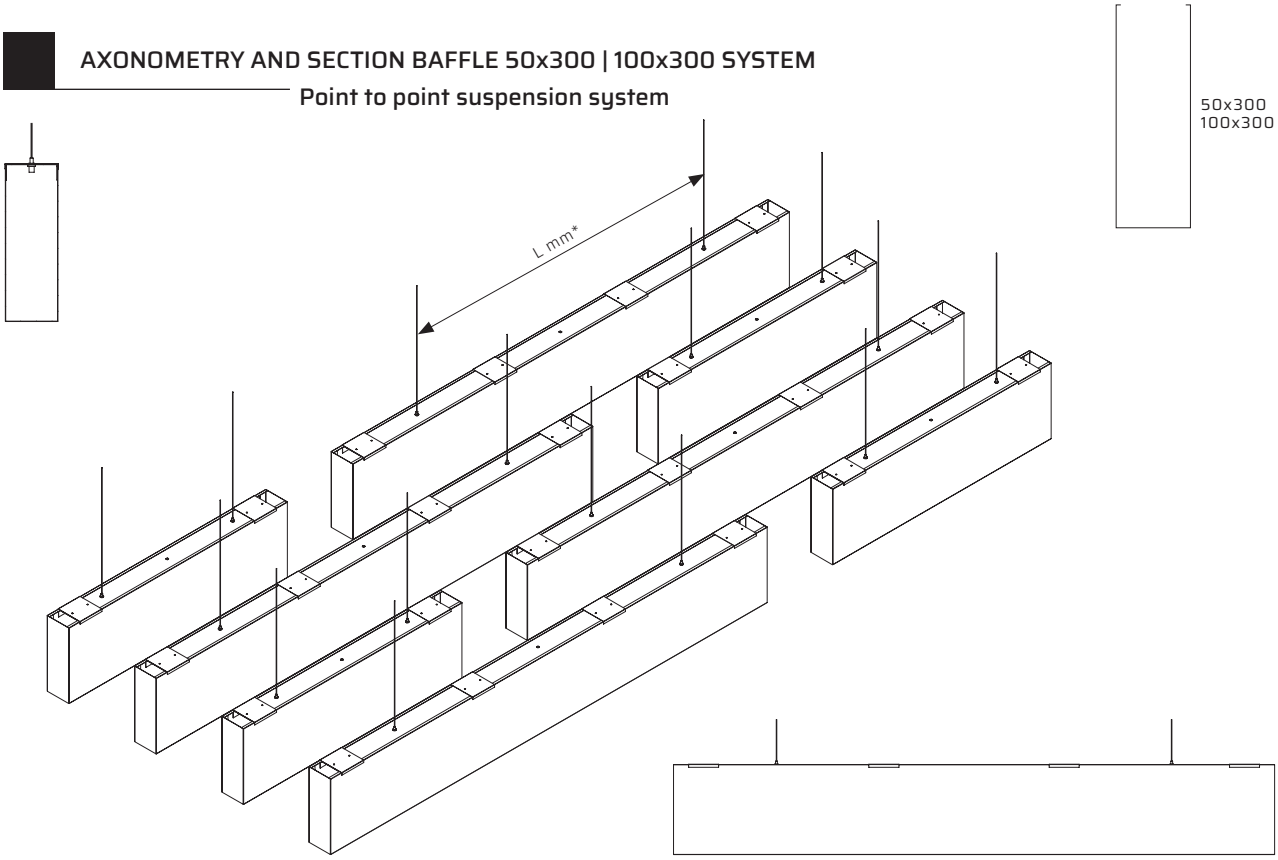
HANGER
CONNECTION



Patent N°
102016000122736

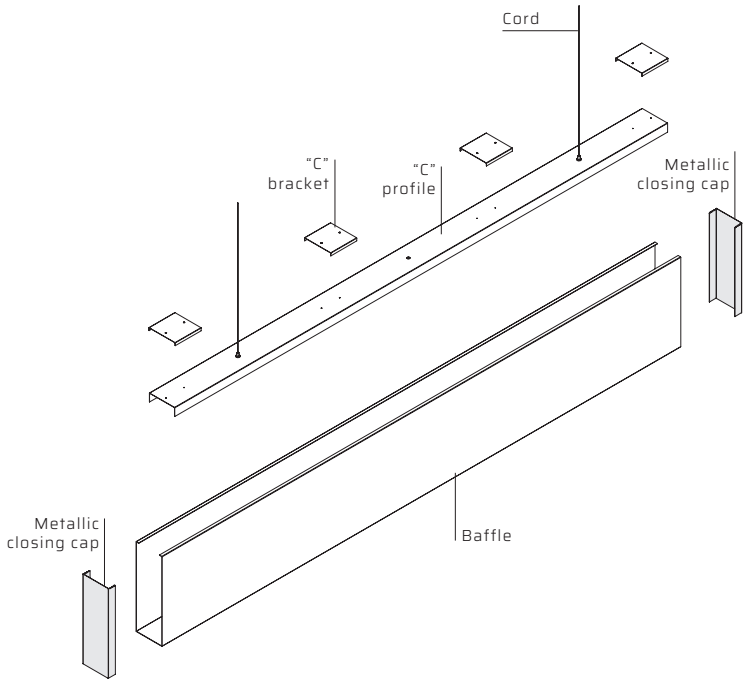
AXONOMETRY AND SECTION BAFFLE 50x300 | 100x300 SYSTEM

Point to point suspension system



COMPONENTS

ID	DESCRIPTION
1	BAFFLE SERIE 50x300 | 100x300
2	HANGERS



HANGING DETAIL

Steel Baffle L50x300
Steel and aluminum Baffle L100x300
its proper point to point suspension system only

Aluminum Baffle L50 h300 can be installed both with carriers and point to point suspension system.

*verify **interaxes** and **hanger models** according to the load at m² the antiseimic report and particular conditions when required.The **fastening** must be checked with regard to the loads, the anchoring base features and the installation accuracy, in order not to compromise the stability of the metal ceiling system. Lightings, accessories and systems must not weigh on the metal ceiling system, but must be independently suspended.

ANTISEISMIC EQUIPMENTS

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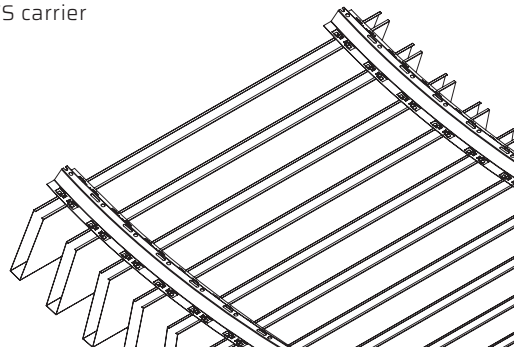
tel. + 39 0421 75526 export@atena-it.com

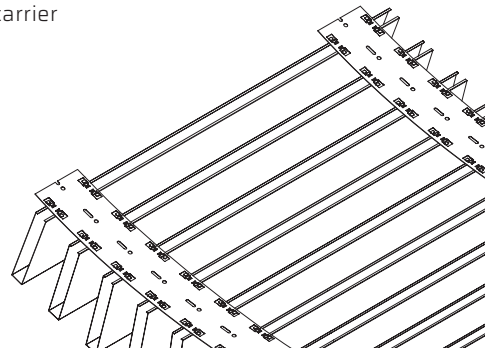
POSSIBILITY OF CONCAVE AND CONVEX ARRANGEMENTS THANKS TO SHAPEABLE TS CARRIERS

TS carrier

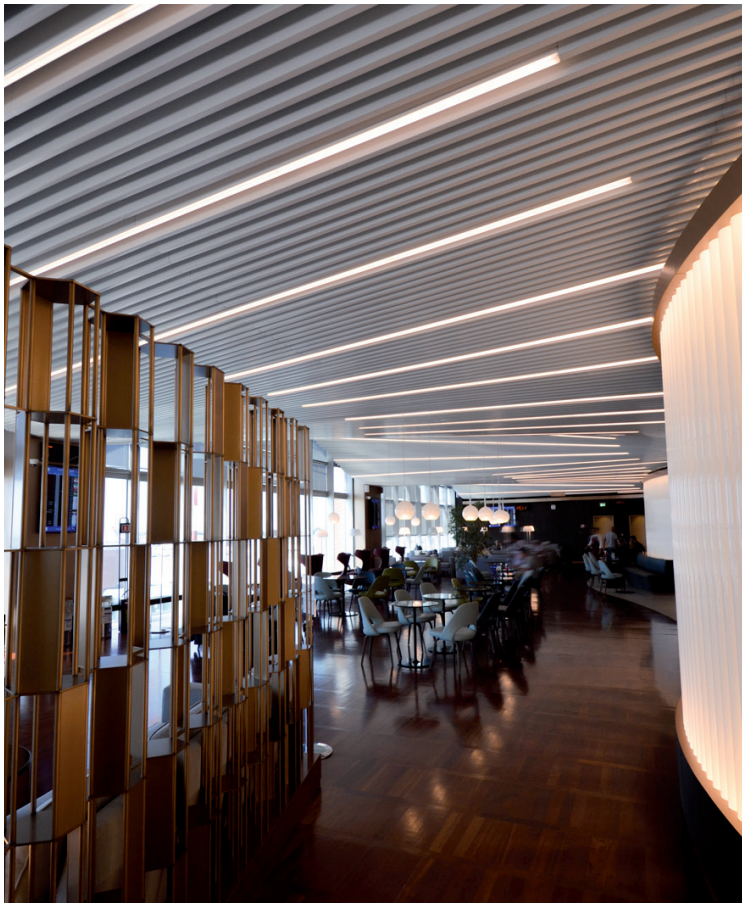


A SOLUTION

TS carrier



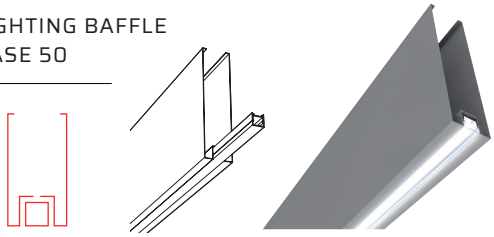
B SOLUTION



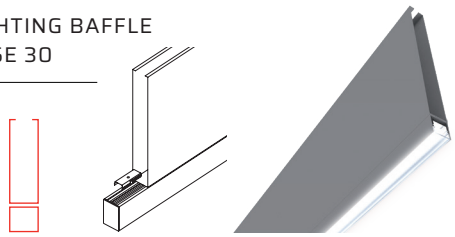
LIGHTING BAFFLE

To create a lighting false ceiling without any interruption between lighting element and Baffle body, Atena S.p.A. has developed the “Lighting Baffle”; this special element is properly shaped to lodge LED bars, with opal or microprismatic screen, for an effect of diffuse or punctual light.

LIGHTING BAFFLE
BASE 50



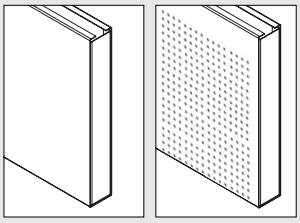
LIGHTING BAFFLE
BASE 30



All dimensions are nominal and expressed in millimeters.
All technical specification data and information can be changed without advise.
For further information please contact sales department:
tel. + 39 0421 75526 export@atena-it.com

PERFORATIONS

Baffles are widely used to improve the acoustic comfort. They can be used alone or in addition to the existing false ceiling. As well as for the acoustic function Baffles help to preserve the natural lighting and the air flow coming from windows and roof. From the acoustic point of view, Baffles can be used as absorbers or deflectors of the sound wave. According to project requirements, vertical elements may be totally plain to promote sound reflection or perforated and filled with acoustic pad to absorb noises. To choose the right vertical elements to apply, the acoustic material, the number of Baffles and their disposition, it is necessary to carry out a preliminary analysis of the environment and its functions. To do this, Atena S.p.A. cooperates with specialized companies to provide a specific service for acoustic treatment.

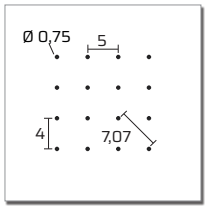


PLAIN BAFFLE — PERFORATED BAFFLE

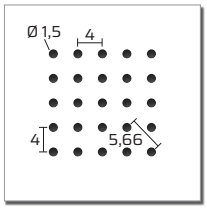
Ø = 0,75 ≤ 1,5 mm PERFORATIONS

PARALLEL

AP 0,75 / 2% P

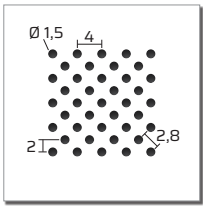


AP 1,5 / 11% P



DIAGONAL

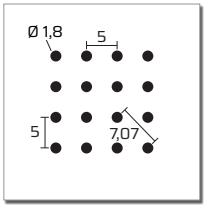
AP 1,5 / 22% D



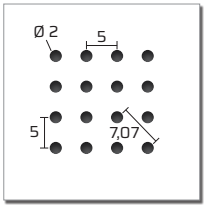
Ø = 1,8 ≤ 2 mm PERFORATIONS

PARALLEL

AP 1,8 / 9,5% P

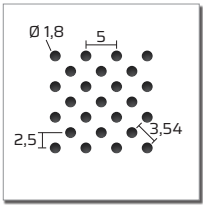


AP 2 / 12,5% P*

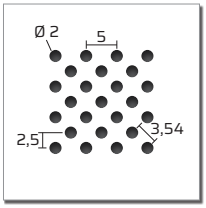


DIAGONAL

AP 1,8 / 19% D



AP 2 / 25% D



MATERIALS Drillable steel-aluminum thickness

PERFORATION		THICKNESS 0,5	0,6	0,7	CL	PW
AP 0,75/2%	P	▪	▪	NA	1000	850
AP 1,5/11%	P	▪	▪	▪	1300	1300
AP 1,8/9,5%	P	▪	▪	▪	900	800
AP 2/12,5%*	P	▪	▪	▪	1250	1200
AP 1,5/22%	D	▪	▪	▪	1300	1300
AP 1,8/19%	D	▪	▪	▪	900	800
AP 2/25%	D	▪	▪	▪	1250	1200

NA= Not available
CL= Maximum coil lenght
PW= Maximum perforation width
See applicable materials table 1 at page 3
* AP 2/12.5% P applicable to aluminium up to 12/10 thickness

Note: Acoustic tissue is available only for Baffle in standard white Atena shades, wood effects and pre-painted colors having an overall material width less than 395 mm (see page 3). In perforated post-painted steel and aluminum models, acoustic tissue is not applicable, wrapped wadding or rock wool are suggested

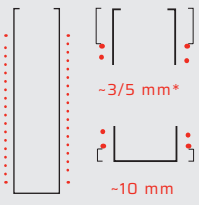
PERFORATION CONFIGURATIONS

A and **B** perforation configurations applicable to all models.

Base 50 h300 e 100 h300 available perforation only AP 2/12.5% P

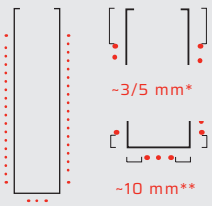
A CONF.

PERF. ON TWO SIDES WITH SMOOTH EDGES AND BASE



B CONF.

THREE-SIDED PERF. WITH SMOOTH EDGES



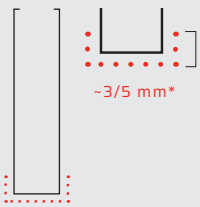
C and **D** perforations configurations only for **diagonal perforation** in baffles with **standard section**.

Base 50 h300 e 100 h300 available perforation only AP 2/12.5% P

For Baffles with hook-on section, check the feasibility of the C/D perforation configuration with the sales department.

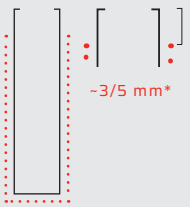
C CONF.

PERFORATED BASE OVER THE EDGE

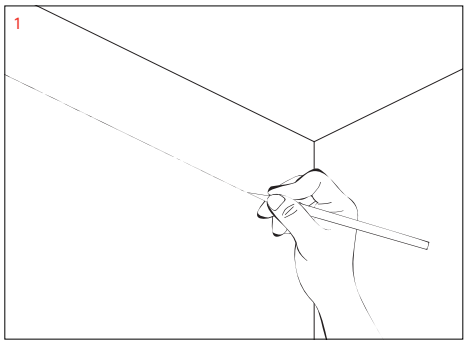


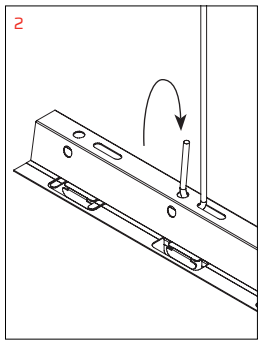
D CONF.

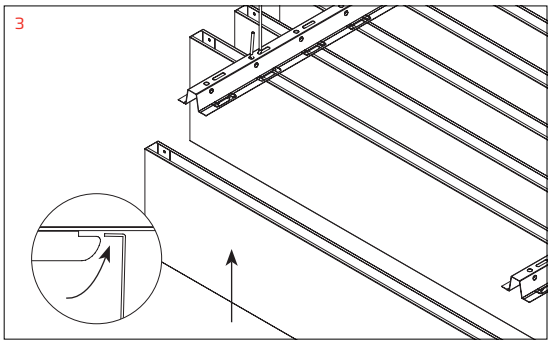
THREE SIDES PERFORATION



INSTALLATION STEPS*







* Example with TRB carrier

1 Determine the height of the ceiling with a level and mark it with a string.

2 Install the hangers and hook the carriers according to the interaxe required by the project.*

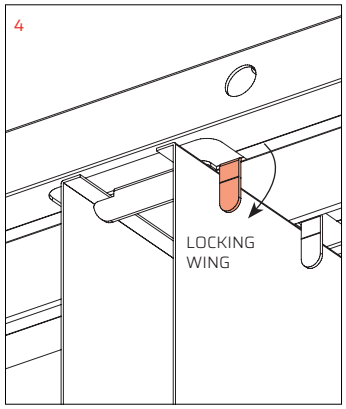
3 Hook the Baffle on the carriers' reed through the locking wing.

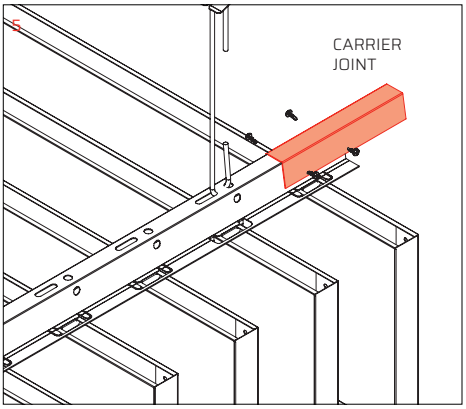
4 Bend down the carrier locking wings to ensure the system.

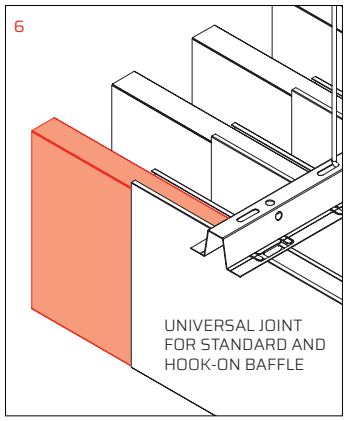
5 Install the joints to ensure the right alignment of the carriers.

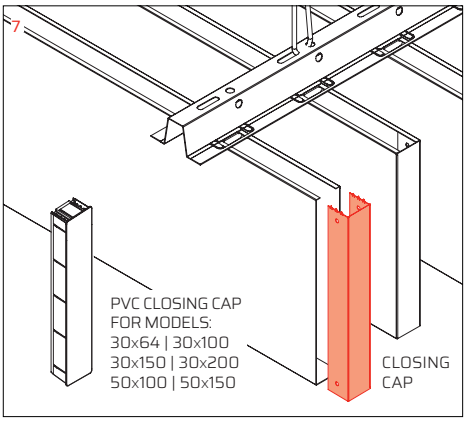
6 Install the Baffle joints to guarantee the continuity of the elements.

7 If required, install the closing caps.







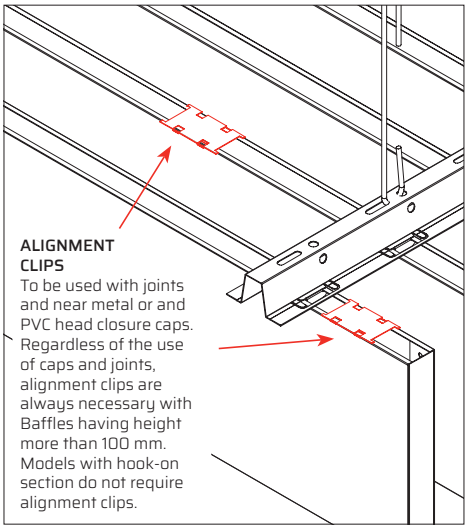


COMPONENT PITCHES

PESO BAFFLE	CARRIER	"U" PROFILE*	HANGERS	
Kg/m²	Pitch (mm)	Pitch (mm)	Type	Pitch (mm)
< 6	1200	-	Double hanger with spring	900
> 6 < 10	900	-	Threaded bar Ø6mm	900
> 10 < 13	800	1000		900
>13	To be verified according project requirements			

* "U" profile for double structure must always be used for baffles >10kg/m² or when anti-seismic kits are required. For anti-seismic sizing purposes, the type of suspension and components pitch must always be verified.

*verify **interaxes** and **hanger models** according to the load at m² the antiseimic report and particular conditions when required.The **fastening** must be checked with regard to the loads, the anchoring base features and the installation accuracy, in order not to compromise the stability of the metal ceiling system. Lightings, accessories and systems must not weigh on the metal ceiling system, but must be independently suspended.



ALIGNMENT CLIPS
To be used with joints and near metal or and PVC head closure caps. Regardless of the use of caps and joints, alignment clips are always necessary with Baffles having height more than 100 mm. Models with hook-on section do not require alignment clips.

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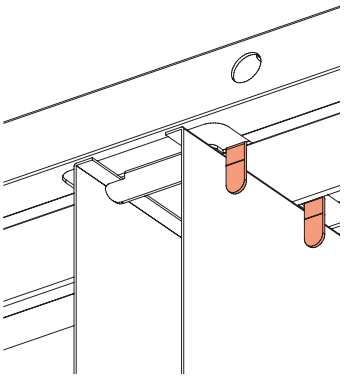
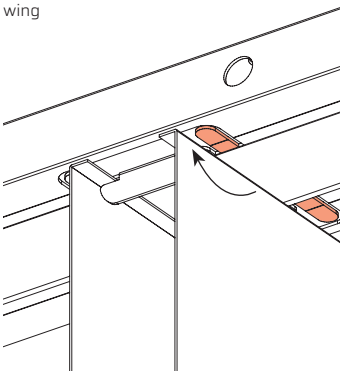
tel. + 39 0421 75526 export@atena-it.com

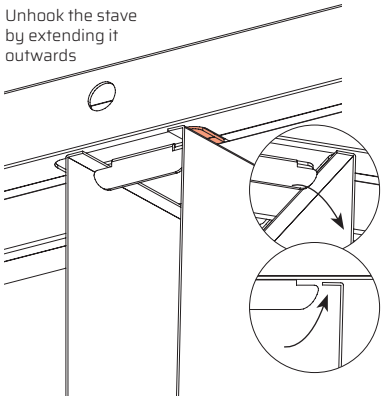
TRB CARRIER REMOVAL DETAIL



Lift up the locking wing



Unhook the stave by extending it outwards



CLEANING, MAINTENANCE AND REMOVAL INSTRUCTIONS

Cleaning and maintenance require some attention and care even though are easy to make and don't take much time. It is necessary to use warm water and neutral and non-abrasive detergents. Metal ceilings maintenance usually refers to: placement, alignment or replacement of damaged or broken modules (panels, staves, baffles, open cells) which can be also removed for restoration or maintenence of the system below.

In order to ensure an excellent results, the maintenance work must be carried out by specialised workers trained with technical data sheets about setting, removal and maintenance of the metal ceilings. Using inadequate tools can damage the bearing structure, causing adherence loss or even accidental modules fall. All the maintenance intervention must follow the technical data sheet instructions or specific information when provided and every diversity has to be promptly reported. Each worker charged with maintenance operation must carefully remove the modules, perform the intervention and do not alter the metal ceiling structure, the hanging system and the connection between these elements.

When the maintenance is over, modules must be installed again, checking that these are well hooked or positioned if they are lay-in/on on a visible structure and that the flatness of the assembly is guaranteed. Any difference in level is caused by wrong installation and, for this reason, the system must be quickly controlled.

STORAGE MODE

Materials supplied by Atena S.p.A. shall be maintained in good condition from purchase to installation. Materials must be stored in a closed, clean and dry site, not under direct light. Atena S.p.A. protects its products with resistant packaging under normal handling. Please handle packages with care to avoid shocks and inappropriate handling that might damage what is provided. The manual handling must be carried out with caution and in compliance with safety regulations at work. For carriage of packaged products on pallets, provide a mechanical transport to avoid damages or risks resulting from inadequate transport.

SUSTANABILITY AND SAFETY

All Atena metal ceilings are made with products that do not release dangerous substances into the environment including formaldehyde. Coating and / or sublimation are free from Volatile Organic Compounds (VOC). The products will be recyclable and as a whole manufactured using recycling processes materials, the recycled material percentage is calculated for each type of product, in compliance with CAM requirements and declared according to the ISO 14021 standard. The metal ceiling systems contribute to getting credits for the certification of building design, construction and sustainable and efficient management according to the LEED protocol and to the BREEAM and ITACA cross-cutting aspects.

FASTENERS

Atena supplies the hangers and accessories such as screws, washers and nuts to connect the elements of its own supply only. Lightings, accessories and systems must not weigh on the metal ceiling system, but must be independently suspended. The fastening must be checked with regard to the loads, the anchoring base features and the installation accuracy, in order not to compromise the stability of the metal ceiling system.

NORMATIVE REQUIREMENTS

Atena S.p.A. has adopted a quality management system in compliance with the UNI EN ISO 9001 standard.

All Atena metal ceilings are produced for indoor applications, in compliance with Technical Standards for Construction NTC 2018 and relative circular requirements, the Minimum Environmental Criteria CAM (Ministerial Decree 11 October 2017), the specific technical standards applicable UNI EN 13964 and 14195. Each Atena S.p.A. product has its own DOP (CE Declaration of Performance) according to the European Law for construction products 305/2011.

The performance properties declared in D.o.P. Declarations of Performance provided by Atena S.p.A. are guarantees, if the metal ceiling is installed in the environment conditions for which it has been conceived and the recommended maintenance is executed.

Precisely, metal ceilings are non-structural construction elements therefore they must be properly sized in order to withstand with adequate safety against all actions that can stress the building, such as, but not limited to, earthquakes, winds, thermal expansion, humidity, etc., in relation to the installation site, the building use and the project technical features. Check with Atena technical department the specific environmental conditions to which the product will be subjected, in order to choose the most suitable materials for the installation site.

In the case of outdoor installation, the metal ceilings are not covered by an harmonized technical standard, therefore they are not subject to the regulation 305/2011. They are in any case subjected to the NTC 2018 and to the safety checks of civil constructions, and must be properly sized according to the installation site environmental conditions, to the structural features and to the project specifications.

Indipendently by information, suggestions, advices and technical opinions exchanged between the parts, during pre-agreement negotiations Atena S.p.A. will manufacture the products only according to the orders received and the technical drawings/projects attached, having no responsibility on what is not indicated in the order, in the technical drawings or in the project.

All rights are reserved and subject to industrial protection. Changes to the illustrated products, even if partial, can be carried out only if explicitly authorized by the company Atena S.p.A. All data provided and illustrated are indicative and Atena S.p.A. reserves the right to make changes at any time according the business needs and the production processes.

The information contained in this following sheet must to be considered updated at the date of writing. Changes in product performance occurred after that date may affect the accuracy of the data sheet: it is compulsory for users to make sure to have the latest version of this sheet.

WARRANTY

Atena S.p.A. as a manufacturer, covers the manufacturing defects of its products; Except as provided in the specific warranty extensions, the warranty period is one year from delivery of goods. Any complaints must be communicated in accordance with the sales terms and conditions.

The Atena metal celings system components have been conceived for this purpose only, any other use is considered improper.