

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



Staves MULTILEVEL ^{3D} LINE Serie

ELEMENT DIMENSIONS

BASE 30 *	L 28,5 - H 14 38	BASE 130	L 130 - H 14 80 100
BASE 80	L 30 - H 80 100 L 80 - H 14 80 100	BASE 180	L 180 - H 14 80 100

TS carrier | Distance 50 mm with locking system Carrier maximum lenght 4000 mm.

MATERIALS: see Tab.1

ANTISEISMIC DEVICES

Antiseismic kit for standard plenum ≤ 1,2 m Antiseismic kit for high plenum > 1,2 m

HANGERS:

Double hanger with spring | Threaded bar

COLORS

Atena standard white and silver pre-painted steel. Atena standard white and silver pre-painted aluminium. RAL/NCS post-painting.

FINISHING

Plain or perforated surface. Perforation to choose among Atena perforations model. Wood effects | Sublimation or digital printing of any image and texture.

WALL ANGLES

"C": 18x33x25 | 30x40x40 | 18x33x25 mm "L": 25x25 | 20x20 | 20x25 mm Thickness and finishing according to project requirements

ACCESSORIES: staves and carrier joints.

ATENA DIMENSIONAL TOLLERANCES

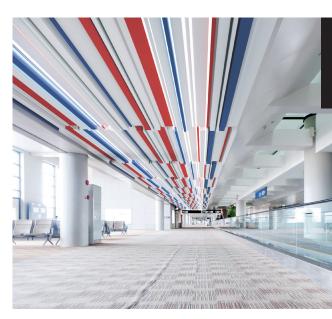
Lenght +/- 2 mm; Width +/- 0,75 mm.

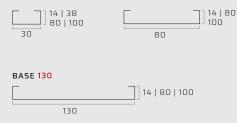
(Tab. 1)

STAVE	GAP	DIMENSIONS	ALUMINUM THICKNESS	STEEL THICKNESS	CARRIER		incidence ml/mq	
					TYPE	MATERIAL	STAVES	CARRIER T*
BASE 30*	-	L 28,5 - H 14	4/10	-	TS	STEEL 8/10	-	1
	-	L 28,5 - H 38	5/10 6/10	5/10	TS	STEEL 8/10	-	1
	-	L 30 - H 80	6/10 7/10	6/10	TS	STEEL 8/10	-	1
	-	L 30 - H 100	6/10 7/10	6/10	TS	STEEL 8/10	-	1
BASE 80	-	L 80 - H 14	5/10 6/10	5/10	TS	STEEL 8/10	-	1
	-	L 80 - H 80	6/10 7/10	6/10	TS	STEEL 8/10	-	1
	-	L 80 - H 100	6/10 7/10	6/10	TS	STEEL 8/10	-	1
BASE 130	-	L 130 - H 14	5/10 6/10	5/10	TS	STEEL 8/10	-	1
	-	L 130 - H 80	6/10 7/10	6/10	TS	STEEL 8/10	-	1
	-	L 130 - H 100	6/10 7/10	6/10	TS	STEEL 8/10	-	1
BASE 180	-	L 180 - H 14	6/10	5/10	TS	STEEL 8/10	-	1
	-	L 180 - H 80	6/10	6/10	TS	STEEL 8/10	-	1
	-	L 180 - H 100	6/10	6/10	TS	STEEL 8/10	-	1

14 | 80 | 100

T*= According project requirements incidence of carriers and suspensions can vary. Please check it with Atena S.p.A. technical department.





180

BASE 80



BASE 30

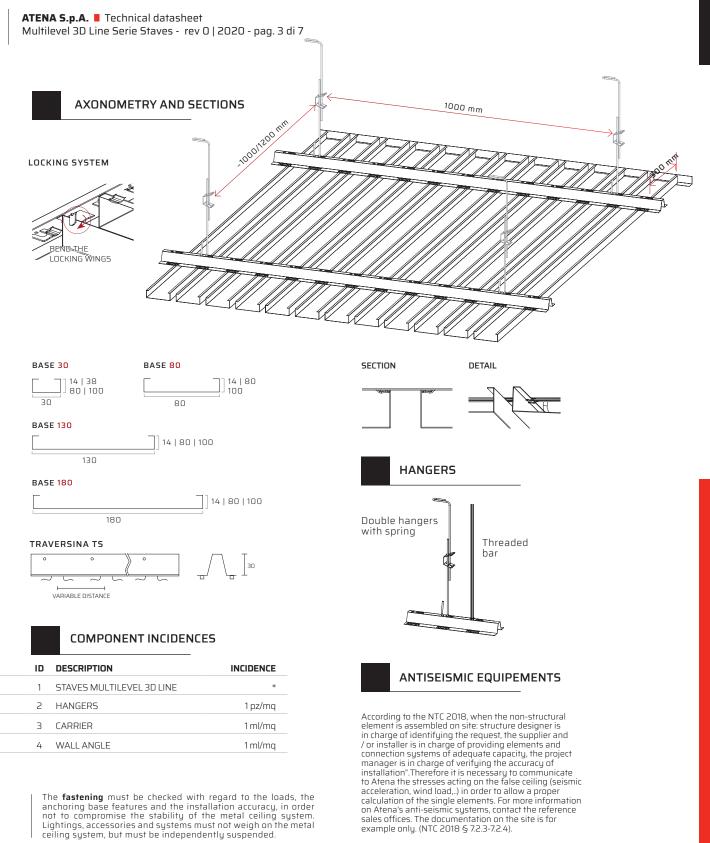
TECHNICAL PERFORMANCES

UJJJJ	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	(RH%) RELATIVE HUMIDITY RESISTANCE	Galvanized steel products: ≤ 90% Pre/post-painted galvanized steel products: > 90% Stainless steel and aluminium products: > 90%
<u>A</u>	FIRE REACTION UNI EN 13501-1	Structure, suspensions and wall angles: A1 Class Smooth or perforated stave with Plus acoustic fleece: A1 Class Perforated stave with Standard acoustic fleece: A2s1d0 Class
())	ACOUSTICS	Information in "Acoustic Performance"
Ē	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)
41-11 v	DURABILITY OF PAINTED ITEMS	C Class EN13964
' − z	GALVANIZED DURABILITY	B Class EN13964

SUSTAINABILITY



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



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.

PERIMETERS





18x42x25 L=4000 mm 30x40x40 L=3000 mm



18x33x25 L=4000 mm with H3O Omega spring "L" PROFILE

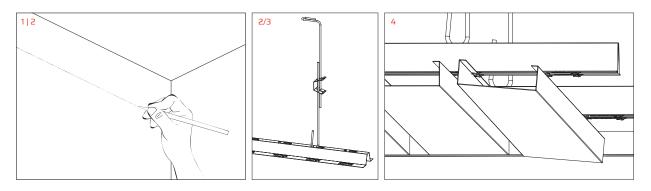


25x25 mm 20x20 mm 20x25 mm L=3050 mm

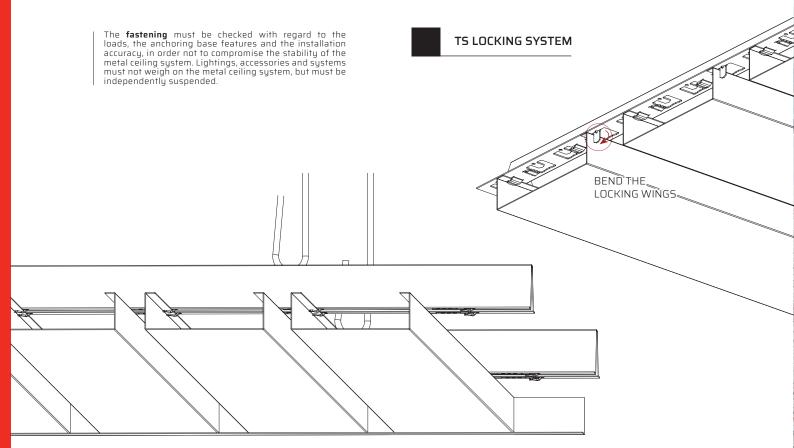
All dimensions are nominal and expressed in millimeters. All techinacal specification data and information can be changed without advise. For further information please contact sales department

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





- Determine the height of the metal ceiling with a level and mark it with the cord.
- 3 Fix the hangers to the floor and hook the carriers to the special hangers, according to the distance calculated in the project. To ensure the correct alignment of the carriers, fix the appropriate joints.
- 2 Install the wall angle profiles with screws and / or plugs suitable for the wall material.
- 4 Proceed with the hooking of the Staves to the carriers. To ensure the correct alignment of the staves, fix the appropriate joints.



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

PLAN

THE MANDERS

The manufacture of the second state of the sec A MA MANUAL AND A MANAGER A

All dimensions are nominal and express All technocal specification data and info For further information please contact s tel. +39 042175526 commercial area d in millimeters. Imation can be changed without advise.

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.

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

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.

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