

Innovation For Creativity

metal ceilings and facades



MADE IN ITALY
MANUFACTURING
QUALITY • DESIGN



Product range: T GRID

ANTISEISMIC T24

Plenum $\leq 1,20$ m



PRODUCT TYPE

Visible T-grid system
base 24 mm (nominal)
3700 h38 | 1200-600 h32

T-GRID CONNECTION

Main profile:
head to head connection
with printed clip

Cross profiles:
stainless steel clip

COLOURS AND PERFORMANCE

Corrosion resistance: C2
White | Black | Silver
Corrosion resistance: C3
Totally white
Corrosion resistance: C2 | C4
RAL/NCS coating
Antimicrobial treatment

T-GRID WEIGHT

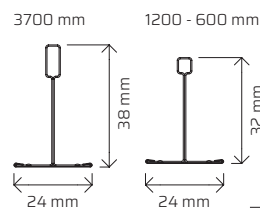
0,97 kg/mq
hanger and wall angles not included

ANTISEISMIC EQUIPMENTS

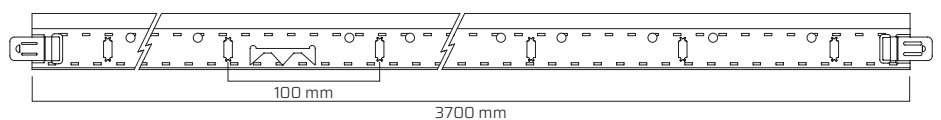
Atena Antiseismic kit
for $\leq 1,2$ m plenum

PACKAGING

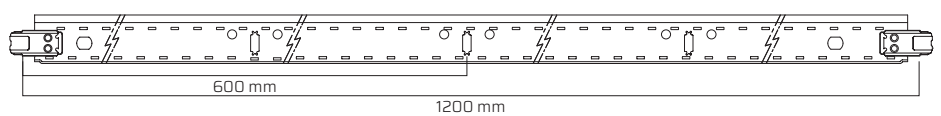
Boxes



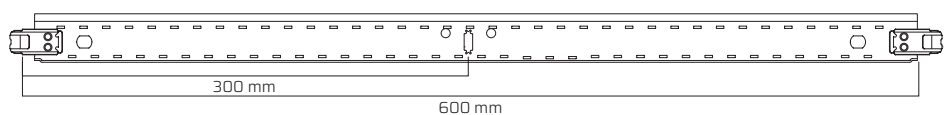
Main profile 3700 mm



Cross profile 1200 mm




Cross profile 600 mm









CODE	LENGHT	DIMENSION	PCS/ BOX	BOX WEIGHT	BOX/ PALLET	PALLET WEIGHT
RY124370BRTARS	3700 mm	24x38 mm	24	31,19 kg	36	1123 kg
RY124120BRTARS	1200 mm	24x32 mm	50	16,66 kg	60	1000 kg
RY124060BRTARS	600 mm	24x32 mm	75	10,92 kg	96	1049 kg

* The grey part of code changes according to the features of the required.

TECHNICAL PERFORMANCES

	EXPOSURE CLASS	A Class
	CLIP TENSILE STRENGTH	240 N
	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	A1 Class
	METAL CEILING MAXIMUM LOAD	12 Kg/m ²
	MATERIAL	T-grid clip: stainless steel thick. 0,40 mm T-grid main profile: galvanised steel DX51D- Z100 thick. 0,35 mm T-grid cross profile: galvanised steel DX51D- Z100 thick. 0,30 mm T-grid capping: pre-painted steel thick. 0,30 mm
	LIGHT REFLECTION	Gloss smooth white: up to 85% ISO 7724-2 (3)
	COLOR STABILITY	In compliance with standard technical tolerances. Test according the ΔE - CIE Lab method. ISO 7724-2 (3)
	CLEANING	Wet cloth with warm water and neutral non-abrasive detergents.
	DURABILITY OF OF PAINTED ITEMS	C Class EN13964
	DURABILITY OF GALVANIZED ITEMS	B Class EN13964

SUSTAINABILITY

	RELEASE OF DANGEROUS SUBSTANCES*	None CAM 2.4.13 EN13964		FORMALDEHYDE*	E1 Class CAM 2.3.5.5
	DISASSEMBLY*	Steel Aluminium 100% recyclable CAM 2.4.11		MATERIAL DEMOLITION AND REMOVAL*	Non hazardous waste in compliance with CAM 2.5.1.
	RECYCLED PRODUCT CONTENT*	CAM 2.4.18 compliance		GREEN BUILDING	Requirements: LEED (BREEAM and ITACA for cross-section aspects)

* Data declaration as required by the ISO 14021 standard

ANTISEISMIC KIT PLENUM $\leq 1,20$ m

CROSS CONNECTOR

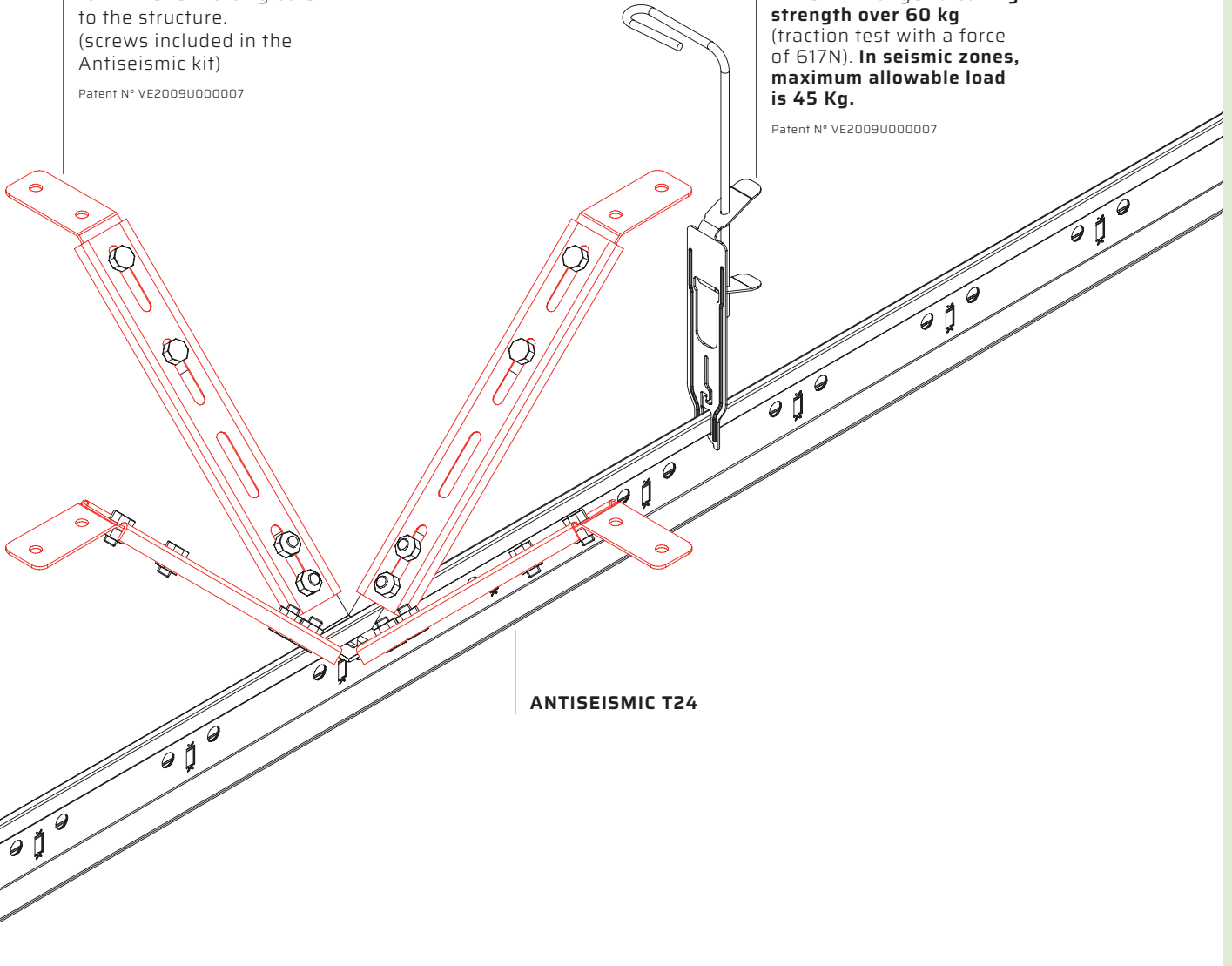
to fix the reinforcing bars to the structure.
(screws included in the Antiseismic kit)

Patent N° VE2009U000007

TWISTER HANGER

TWISTER hanger breaking strength over 60 kg
(traction test with a force of 617N). **In seismic zones, maximum allowable load is 45 Kg.**

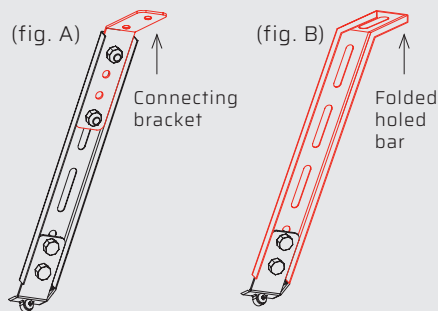
Patent N° VE2009U000007



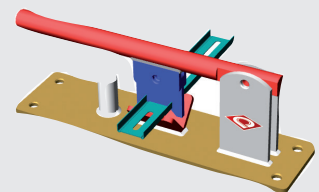
ANTISEISMIC T24

REINFORCING BARS

To fix the reinforcing bars on the deck, you can use the **traditional system with connecting brackets** (fig.A), or you can bend the punched bars directly on site using "Flexa" (fig.B) the Atena bending tool and fix the bent bars directly on deck.



"Flexa" the bending tool



WARRANTY

The warranty, covers the manufacturing products defects. 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. Metal ceilings system components have been conceived for this purpose only, any other use is considered improper.

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 maintenance 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 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. Materials provided with protective films must be transported and stored in proper environmental conditions, i.e.: temperature 10 to 30°C, relative humidity 40 to 75%RH. Within three (3) months of delivery and in any case before installation, the protective films must be removed. Products are protected 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 metal ceilings ITALIAN SELECTION 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

IFC 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.

ANTISEISMIC EQUIPPMENTS

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 IFC 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 IFC'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).

NORMATIVE REQUIREMENTS

IFC LTD is maker and sole distributor in Israel and Palestinian territories.

“Italian selection” products are manufactured in Italy by the selected Italian maker Atena S.p.A.

The Italian company has adopted a quality management system in compliance with the UNI EN ISO 9001 standard.

All “Italian selection” 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 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 the manufacturer are guarantees, if the metal ceilings are 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 IFC 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.

The products are sold to the customer together with guarantees and technical sheets, with instructions for transport, unloading, storage, handling, installation and maintenance, supplied by the manufacturer, verified and approved by IFC.

Independently by information, suggestions, advices and technical opinions exchanged between the parts, during pre-agreement negotiations IFC will supply 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.

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Italian selection products



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MANUFACTURING
QUALITY • DESIGN

I.F.C. LTD

14, Habana Im. Street P.O. BOX 12384 Ashood

Tel: +972 8 6699111 Fax: +972 8 6699122

ifc.co.il - info@ifc.co.il

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Product range: T GRID

ANTISEISMIC T24

Plenum > 1,20 m



PRODUCT TYPE

Visible T-grid system
base 24 mm (nominal)
3700 h38 | 1200-600 h32

T-GRID CONNECTION

Main profile:
head to head connection
with printed clip

Cross profiles:
stainless steel clip

COLOURS AND PERFORMANCE

Corrosion resistance: C2
White | Black | Silver
Corrosion resistance: C3
Totally white
Corrosion resistance: C2 | C4
RAL/NCS coating
Antimicrobial treatment

T-GRID WEIGHT

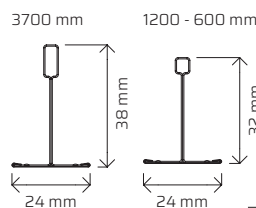
0,97 kg/mq
hanger and wall angles not included

ANTISEISMIC EQUIPMENTS

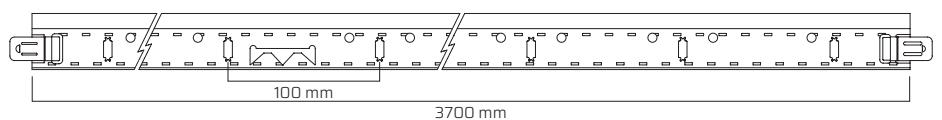
Atena antiseismic kit for
high plenum > 1,2 m

PACKAGING

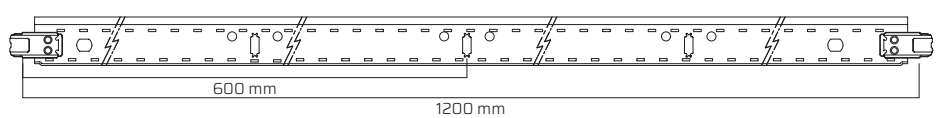
Boxes



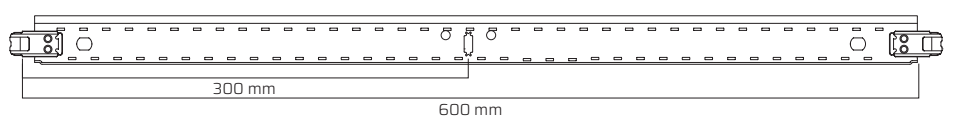
Main profile 3700 mm



Cross profile 1200 mm





Cross profile 600 mm








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RY124370BRTARS	3700 mm	24x38 mm	24	31,19 kg	36	1123 kg
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RY124060BRTARS	600 mm	24x32 mm	75	10,92 kg	96	1049 kg

* The grey part of code changes according to the features of the required.

TECHNICAL PERFORMANCES

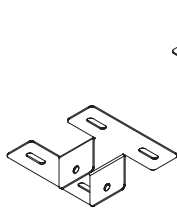
	EXPOSURE CLASS	A Class
	CLIP TENSILE STRENGTH	240 N
	FLEXION RESISTANCE	Maximum span mm 1200 - 1 Class EN13964
	CORROSION RESISTANCE	Galvanized steel products: C2 Class Pre-painted galvanized steel products: C3 Class Post-painted galvanized steel products: C4 Class Pre/post-painted aluminium products: 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	A1 Class
	METAL CEILING MAXIMUM LOAD	12 Kg/m ²
	MATERIAL	T-grid clip: stainless steel thick. 0,40 mm T-grid main profile: galvanised steel DX51D- Z100 thick. 0,35 mm T-grid cross profile: galvanised steel DX51D- Z100 thick. 0,30 mm T-grid capping: pre-painted steel thick. 0,30 mm
	LIGHT REFLECTION	Gloss smooth white: up to 85% ISO 7724-2 (3)
	COLOR STABILITY	In compliance with standard technical tolerances. Test according the ΔE - CIE Lab method. ISO 7724-2 (3)
	CLEANING	Wet cloth with warm water and neutral non-abrasive detergents.
	DURABILITY OF OF PAINTED ITEMS	C Class EN13964
	DURABILITY OF GALVANIZED ITEMS	B Class EN13964

SUSTAINABILITY

	RELEASE OF DANGEROUS SUBSTANCES*	None CAM 2.4.13 EN13964		FORMALDEHYDE*	E1 Class CAM 2.3.5.5
	DISASSEMBLY*	Steel Aluminium 100% recyclable CAM 2.4.11		MATERIAL DEMOLITION AND REMOVAL*	Non hazardous waste in compliance with CAM 2.5.1.
	RECYCLED PRODUCT CONTENT*	CAM 2.4.18 compliance		GREEN BUILDING	Requirements: LEED (BREEAM and ITACA for cross-section aspects)

* Data declaration as required by the ISO 14021 standard

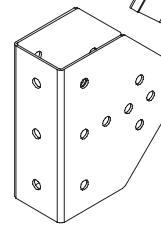
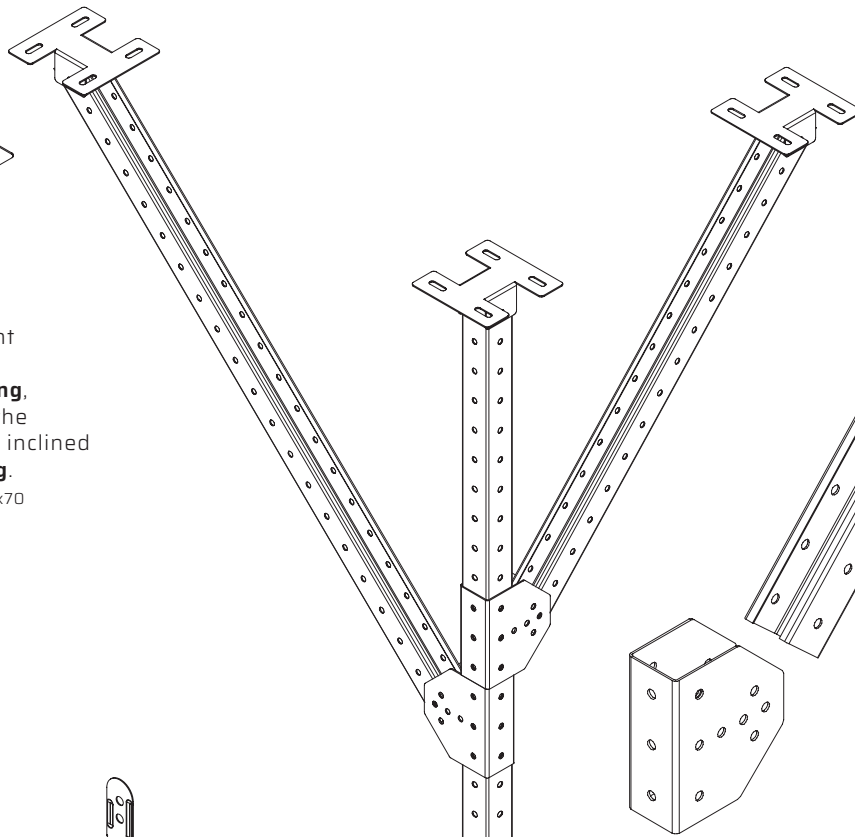
ANTISEISMIC KIT PLENUM >1,20 m



UNIVERSAL JUNCTION

Universal slab joint for fixing, both of the **primary bracing**, **perpendicular** to the ceiling, and of the inclined **secondary bracing**.

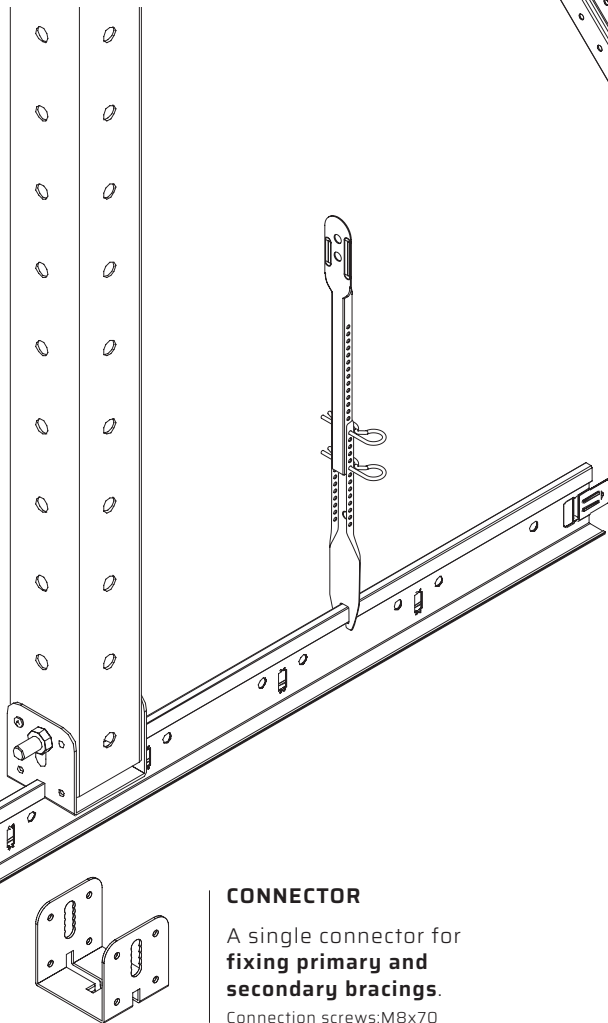
Connection screws: M8x70



CONNECTION AND BRACING

The **primary and secondary bracing system** is made with galvanized steel tubes with pitch holes, for quick fixing of the joints with any interaxle spacing.

Connection screws: M8x70



CONNECTOR

A single connector for fixing **primary and secondary bracings**.

Connection screws: M8x70



REGULATOR

To allow necessary **height adjustments**, the system provides a special telescopic insert, sliding inside the primary wind brace.

Connection screws: M8x70

WARRANTY

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Product range: T GRID

ANTISEISMIC T24

Plenum < 500 mm



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Cross profiles:
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Corrosion resistance: C3
Totally white
Corrosion resistance: C2 | C4
RAL/NCS coating
Antimicrobial treatment

T-GRID WEIGHT

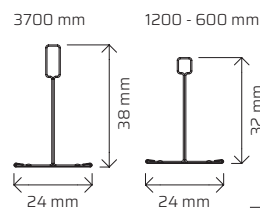
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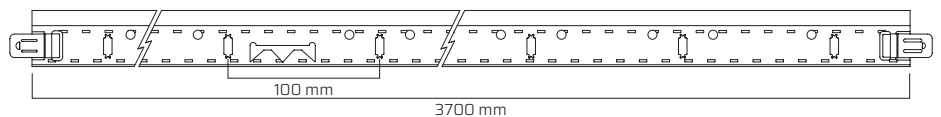
Atena Antiseismic kit
for ≤ 1,2 m plenum

PACKAGING

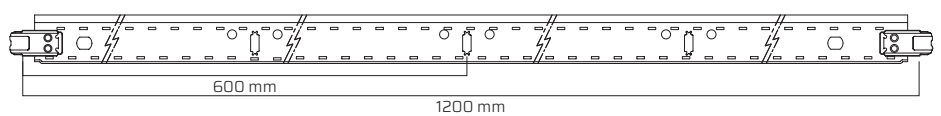
Boxes



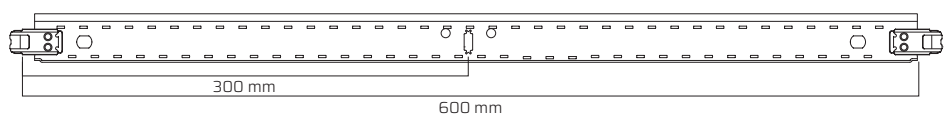
Main profile 3700 mm



Cross profile 1200 mm





Cross profile 600 mm



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TECHNICAL PERFORMANCES

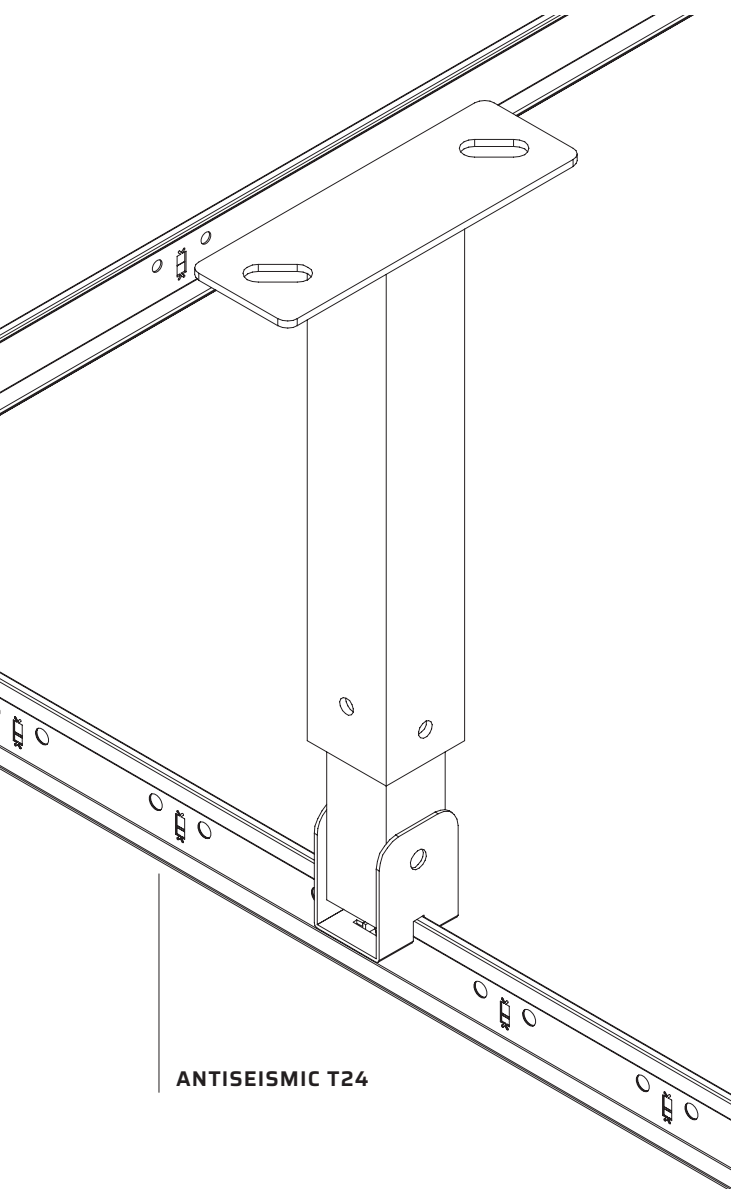
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	METAL CEILING MAXIMUM LOAD	12 Kg/m ²
	MATERIAL	T-grid clip: stainless steel thick. 0,40 mm T-grid main profile: galvanised steel DX51D- Z100 thick. 0,35 mm T-grid cross profile: galvanised steel DX51D- Z100 thick. 0,30 mm T-grid capping: pre-painted steel thick. 0,30 mm
	LIGHT REFLECTION	Gloss smooth white: up to 85% ISO 7724-2 (3)
	COLOR STABILITY	In compliance with standard technical tolerances. Test according the ΔE - CIE Lab method. ISO 7724-2 (3)
	CLEANING	Wet cloth with warm water and neutral non-abrasive detergents.
	DURABILITY OF OF PAINTED ITEMS	C Class EN13964
	DURABILITY OF GALVANIZED ITEMS	B Class EN13964

SUSTAINABILITY

	RELEASE OF DANGEROUS SUBSTANCES*	None CAM 2.4.13 EN13964		FORMALDEHYDE*	E1 Class CAM 2.3.5.5
	DISASSEMBLY*	Steel Aluminium 100% recyclable CAM 2.4.11		MATERIAL DEMOLITION AND REMOVAL*	Non hazardous waste in compliance with CAM 2.5.1.
	RECYCLED PRODUCT CONTENT*	CAM 2.4.18 compliance		GREEN BUILDING	Requirements: LEED (BREEAM and ITACA for cross-section aspects)

* Data declaration as required by the ISO 14021 standard

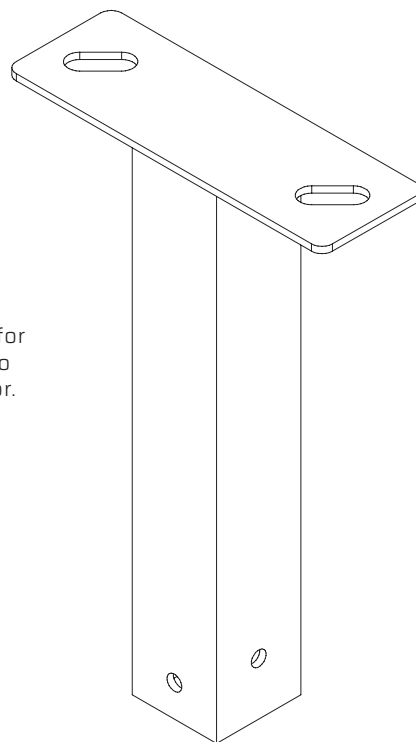
ANTISEISMIC KIT PLENUM < 500 mm



WIND BRACING

Brace, made of galvanized steel tubing with holes, for quick attachment to the height regulator.

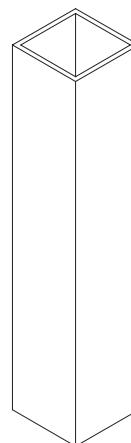
Connection screws: M6.3x20



HEIGHT REGULATOR

Telescope sliding inside the brace to allow the necessary **height adjustments**.

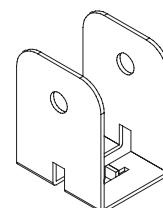
Connection screws: M6.3x20



CONNECTION BRACKET TO THE MAIN PROFILE

To apply the braces to the frame, **fix the connection to the 3700 mm bearing profile**.

M4.2x13 screw



WARRANTY

The warranty, covers the manufacturing products defects. 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. Metal ceilings system components have been conceived for this purpose only, any other use is considered improper.

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 maintenance 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 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. Materials provided with protective films must be transported and stored in proper environmental conditions, i.e.: temperature 10 to 30°C, relative humidity 40 to 75%RH. Within three (3) months of delivery and in any case before installation, the protective films must be removed. Products are protected 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 metal ceilings ITALIAN SELECTION 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

IFC 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.

ANTISEISMIC EQUIPPMENTS

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 IFC 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 IFC'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).

NORMATIVE REQUIREMENTS

IFC LTD is maker and sole distributor in Israel and Palestinian territories.

“Italian selection” products are manufactured in Italy by the selected Italian maker Atena S.p.A.

The Italian company has adopted a quality management system in compliance with the UNI EN ISO 9001 standard.

All “Italian selection” 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 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 the manufacturer are guarantees, if the metal ceilings are 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 IFC 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.

The products are sold to the customer together with guarantees and technical sheets, with instructions for transport, unloading, storage, handling, installation and maintenance, supplied by the manufacturer, verified and approved by IFC.

Independently by information, suggestions, advices and technical opinions exchanged between the parts, during pre-agreement negotiations IFC will supply 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. All data provided and illustrated are indicative and can be changed at any time according to 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.



Italian selection products



MADE IN ITALY
MANUFACTURING
QUALITY • DESIGN

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