

Innovation For Creativity

metal ceilings and facades



MADE IN ITALY
MANUFACTURING
QUALITY • DESIGN

AIR certified

Integrated system for clean rooms, tested for air permeability according to test method of UNI EN 1026 standard.



PRODUCT TYPE

600x600 mm
other dimension on request
Clip-in Enigma panels | right edge
Shaped edges for sealing gasket application | Side by side panels
Panels for metal ceiling with integrated lights and air flow terminal units.

PANELS MATERIALS

Steel 5/10 | 6/10 | 7/10 | 8/10
Aluminium 6/10 | 7/10 | 8/10
Stainless steel on request

HIDDEN STRUCTURE

TDW: Double triangular structure with Winger

ANTI-SEISMIC EQUIPMENTS

Antiseismic Kit for:
≤ 1,2 m plenum | > 1,2 m high plenum

HANGERS

Spring hook hanger | Nonius
"C" channel bracket with threaded bar
Suspensions to evaluate according to the load at m², to the project features and antiseismic requirements.

COLOURS AND FINISHING

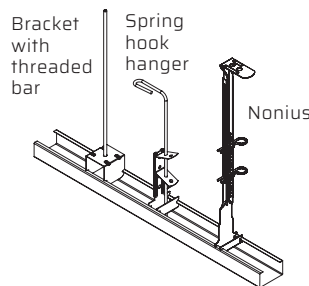
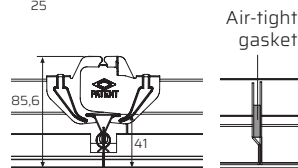
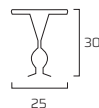
Standard pre-painted white | silver
RAL / NCS coatings | Plain surface
Sublimation | Digital printing
Antimicrobial treatment (Defence H⁺)

WALL ANGLES

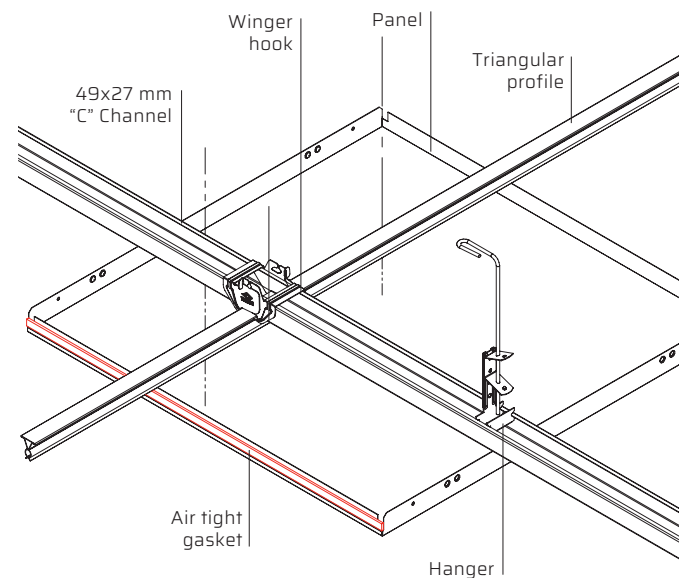
"C" 25x33x18 mm profile with
"omega" spring and air-tight
gasket to be applied on site

ACCESSORIES

Integrated lights, air flow terminal units
and panel fixing PVC clips



Product range: **HOSPITAL CEILING**
ENIGMA AIR-TIGHT
TDW



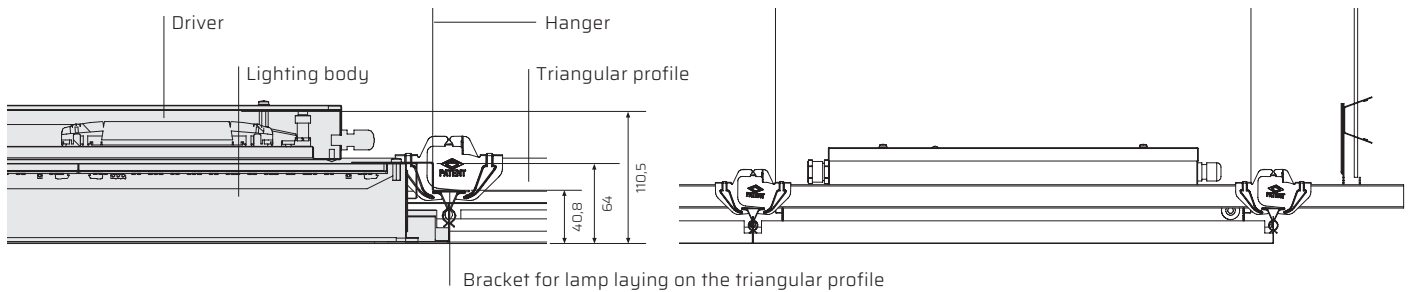
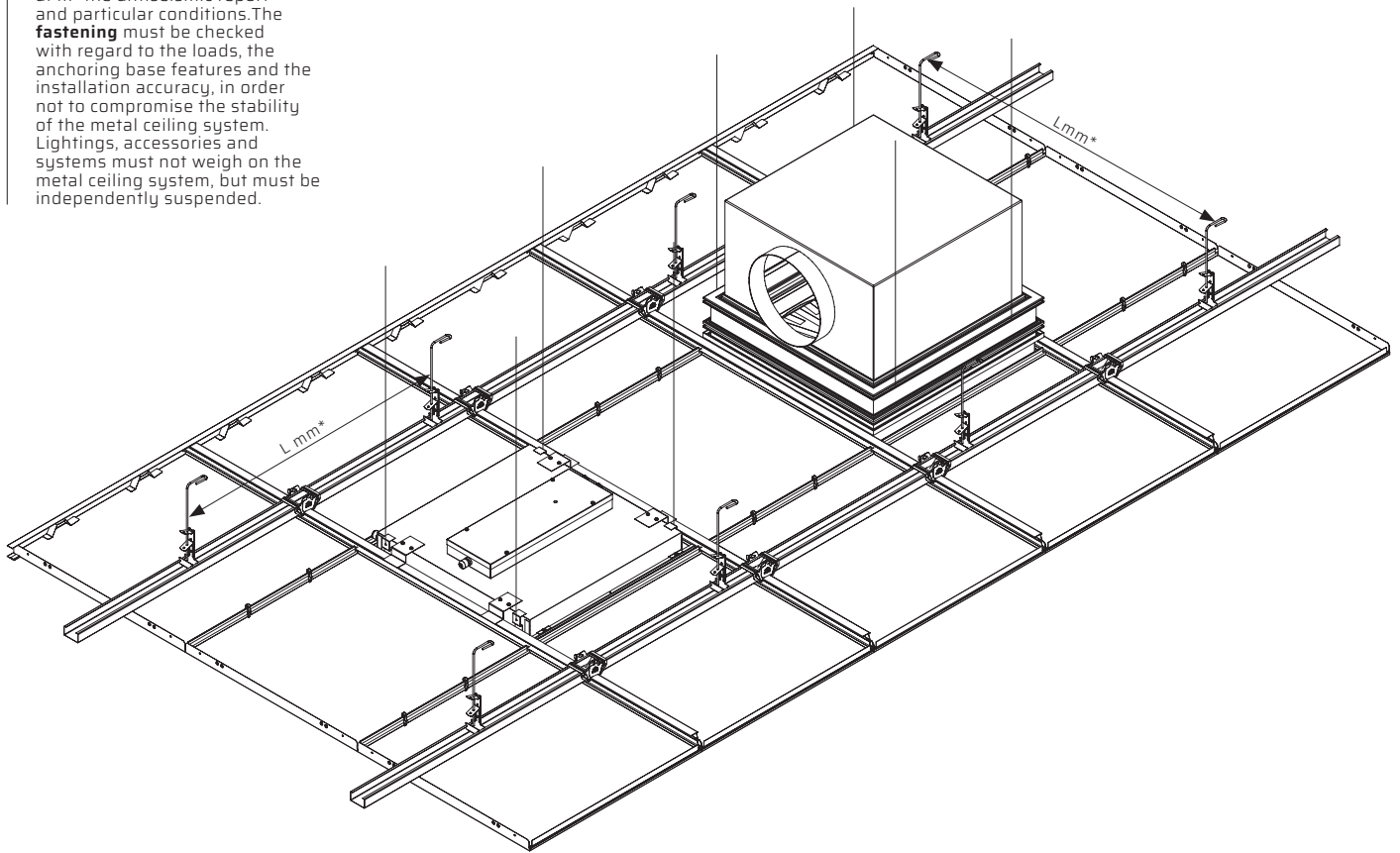
MATERIAL AND WEIGHT

PANEL MATERIAL METAL CEILING WEIGHT PER Kg/m²

PANEL MATERIAL	PAN.	STR.	LAMP	U.M.
STEEL 5/10	4,70	1,26	10	kg/m ²
STEEL 6/10	5,62	1,26	10	kg/m ²
STEEL 7/10	6,56	1,26	10	kg/m ²
STEEL 8/10	7,50	1,26	10	kg/m ²
ALUMINIUM 6/10	1,97	1,26	10	kg/m ²
ALUMINIUM 7/10	2,31	1,26	10	kg/m ²
ALUMINIUM 8/10	2,64	1,26	10	kg/m ²

*verify **interaxes** and **hanger models** according to the load at m² the antiseismic report and particular conditions. 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.

*verify **interaxes** and **hanger models** according to the load at m² the antiseismic report and particular conditions. 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.



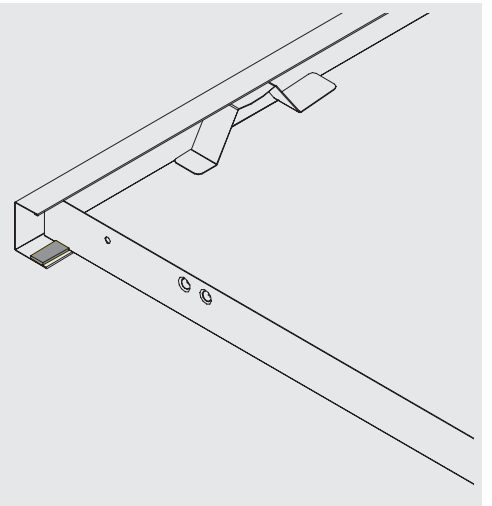
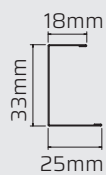
COMPONENT INCIDENCES

ID	DESCRIPTION	INCIDENCE*
1	AIR TIGHT ENIGMA PANEL	2,78 pcs/sqm
2	WALL ANGLE	1lm/sqm
3	HANGER	1 pcs/sqm
4	TRIANGULAR PROFILE	1,70 lm/sqm
5	TRIANGULAR PROFILE JOINT	0,45 pcs/sqm
6	WINGER HOOK	2 pcs/sqm
7	49x27 "C" PROFILE	0,85 lm/sqm
8	49x27 "C" PROFILE JOINT	0,22 pcs/sqm
9	LIGHTING ELEMENT	- pcs/sqm
10	CLIPS	3 pcs/sqm
11	AIR FLOW TERMINAL UNIT	- pcs/sqm
12	AIR FLOW TERMINAL UNIT CONNECTION	- lm/sqm
13	OMEGA SPRING	- pcs/sqm

* Component incidences 600x600mm model

WALL ANGLE

"C" wall angle with air-tight spring and perimeter gasket.



INTEGRATED LIGHT

ATE_TAURUS CLIP | by Atena Lux

MODULE DIMENSION

600x600 mm

MATERIALS

Visible part made of the same material and finishing of the ceiling

Lighting body made in steel, matt RAL 9003 white coated with thermosetting epoxy powders at 180°, after degreasing, phosphating and washing treatment.

OPTICAL GROUP

MOT optic with high transmittance opal methacrylate diffuser. Optics resistant to glow-wire test at 650°C according to CEI EN 60695-2-11 standards.

PMO optic with microprismatic polycarbonate diffuser, protected from UV rays for better resistance to atmospheric agents. Optic with controlled light emission with luminance values < 3000 cd/m² for emission angles greater than 65° on all planes (UGR<19) and therefore suitable for installation in environments with the use of video terminals according to UNI EN 12464-1. Glow-wire test 850°C.

PROTECTION CLASS

Total IP 65

LIGHT SOURCE

High efficiency LEDs arranged on rigid modules, color rendering **CRI>80** and **CRI>90**, color temperature **4000K** (3000K and 5000K available on request), selected 3 MacAdam ellipses LED diode to ensure color uniformity. **LED RGB** and **LED TUNABLE WHITE 2700-6500K** (HCL) models available on request. Sources duration under normal conditions: more than **50.000h L80/B10** at **Ta=25°C**.

WIRING

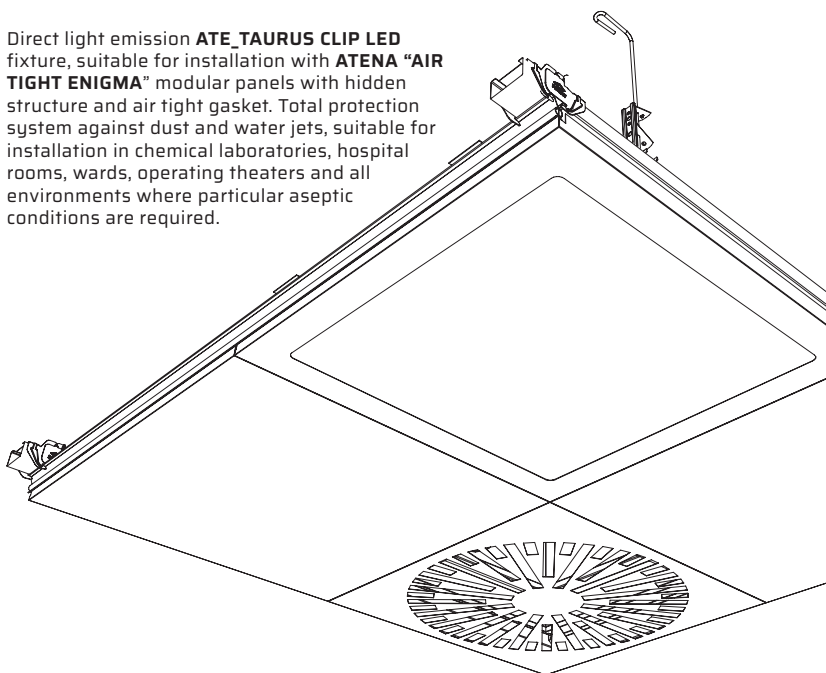
Power supply 220-240V 50-60Hz. LED wiring with rigid cable, sect. 0.50 mm² and PVC-HT sheath resistant to 90°C according to CEI 20-20. Terminal block with maximum permissible cable cross-section of 2.5 mm². **I Insulation class**. Suitable for installation on normally flammable surfaces.

- **LED-F** model with (ON/OFF) fixed output electronic driver and protection fuse included.
- Dimmable **LED-F DALI**, with dimmable electronic driver and protection fuse included.
- Models with **Emergency Kit 1/3h** autonomy with RGB DMX circuit available on request.

ACCESSORIES AND HANGERS

Suspending brackets included with standard equipment. Suspension cables on request.

Direct light emission **ATE_TAURUS CLIP LED** fixture, suitable for installation with **ATENA "AIR TIGHT ENIGMA"** modular panels with hidden structure and air tight gasket. Total protection system against dust and water jets, suitable for installation in chemical laboratories, hospital rooms, wards, operating theaters and all environments where particular aseptic conditions are required.



SOURCE FEATURES

W	CCT	IRC	MOT		PMO		IP
			F.E. [lm]*	EFF [lm/W]	F.E. [lm]*	EFF [lm/W]	
38	4000K	>80	4218	111	4446	117	65
38	4000K	>90	3382	89	3572	94	65
44	4000K	>80	4884	111	5148	117	65
44	4000K	>90	3916	89	4136	94	65
50	4000K	>80	5550	111	5850	117	65
50	4000K	>90	4450	89	4700	94	65
78	4000K	>80	10218	124	10218	131	65
78	4000K	>90	7722	99	8190	105	65

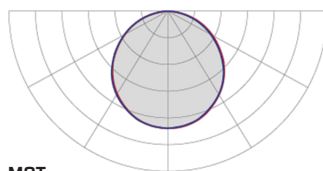
Caption:

CCT= Color temperature | CRI= Color rendering index | IP= Protection Class
F.E.= Actual flow | EFF= Efficiency

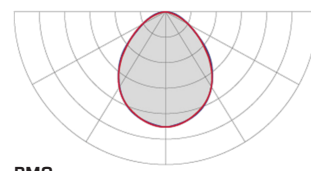
Datasheet: source features | CCT= 3000 | 5000 on request | **Module:** 600x600

* The actual flow may have a tolerance of ±10%.

PHOTOMETRIC CURVES



MOT



PMO

C90 - C270

STANDARD COMPLIANCE

EN 61547	IEC/TR 62471-2	EN 60598-2-2
EN 55015	EN 60061-1	EN 62471*
EN 61000-3-2	EN 62031	EN 62560
EN 61000-3-3	EN 62493	EN 60968
EN 61347-1	EN 60598-1	CEI 76-10
EN 61347-2-13	EN 60598-2-1	EN 60529

*(risk class 0)

TERMINAL UNITS FOR FILTERS

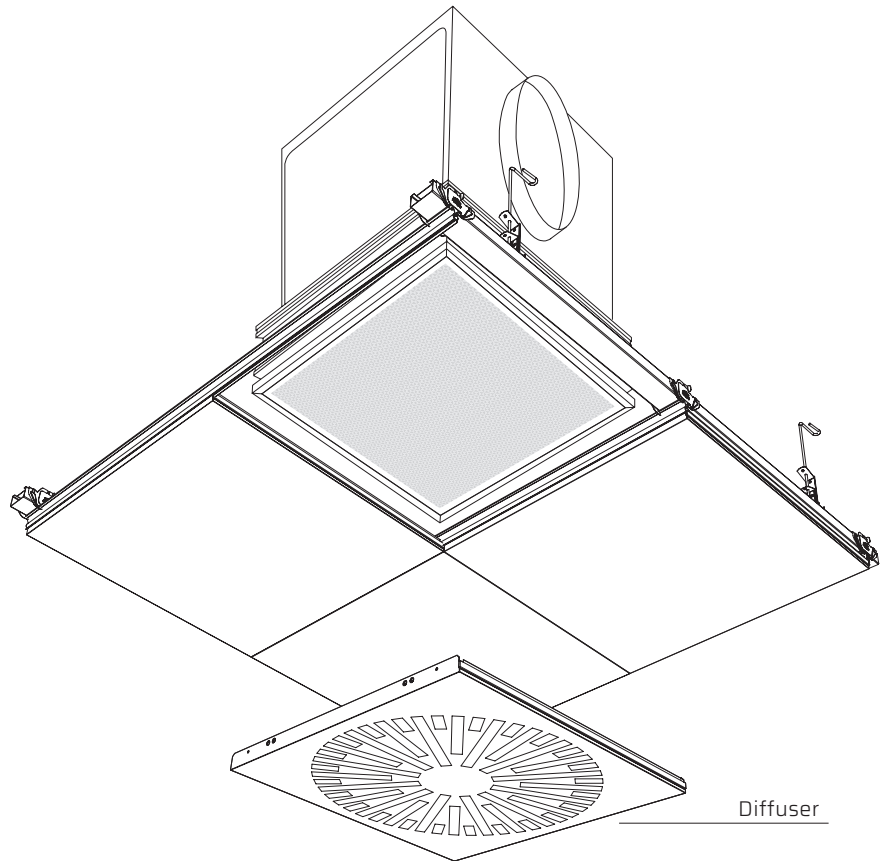
The terminal unit for ENIGMA A TENUA ceiling is made up of an extruded aluminum frame which houses the absolute filter. Terminals are therefore properly conceived to be perfectly integrated into the metal ceiling without altering the sealing features, and the aesthetic result.

Plenum with lateral connection, equipped with two sockets for DOP / Δp differential pressure probe.

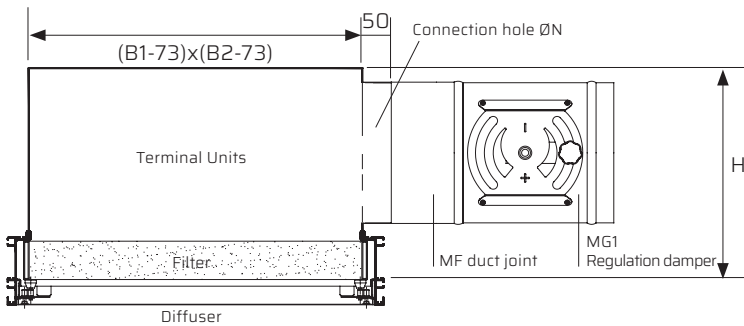
ENIGMA A TENUA diffuser is made in the same material of the panel with sealing gasket to be installed on site.

On request:

custom made hight and/or custom made air duct connection \varnothing upper air duct connection | terminal units insulation.



SYSTEM WITH LATERAL AIR DUCT CONNECTION

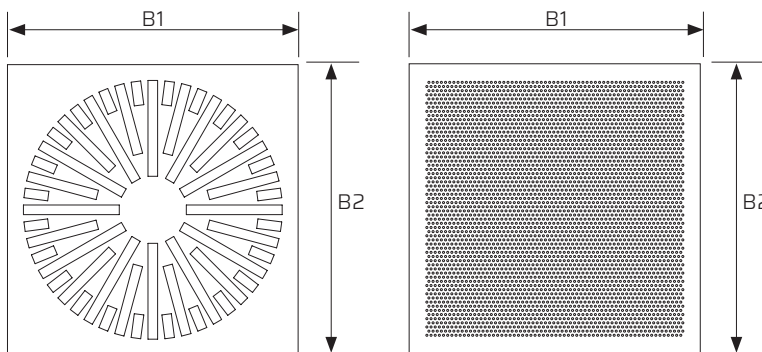


REGULATION DAMPER KIT

On Request, **MG1 Regulation damper**, with manual or motorized operating mechanism and MF duct joint to be coupled with the terminal unit connection.



SUPPLY AND RETURN AIR DIFFUSER



E Serie | Helical diffuser

Flow: turbulent high induction radial motion, pre-set deflectors
Usage: supply

F Serie | Perforated diffuser

Flow: unidirectional without deflectors
Usage: supply / return

TERMINAL UNITS FEATURES

CODE	TERMINAL UNIT DIMENSIONS (BxBxL)	HOLE \varnothing (mm)	Maximum S. AIR FLOW RATE (m ³ /h)
-	365x365x320	160	290
-	517x517x420	200	452
-	517x517x420	250	707
-	595x595x420	250	707
-	595x595x420	315	1122

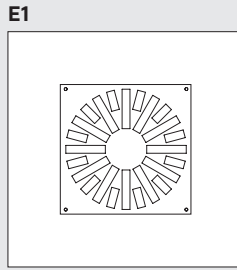
Module 600x600mm

Terminal units supply flow rate without filter and diffuser. For filters and diffusers data consider the proper schedules.

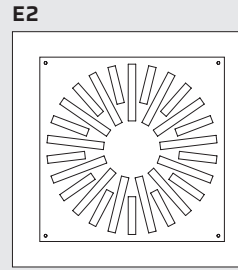
HELICAL DIFFUSERS

SUPPLY
Module 600x600 mm

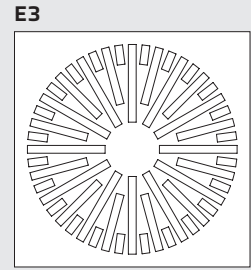
“E Series” delivery diffusers for high induction turbulent flow with radial motion, equipped with special deflectors for flow rate optimizing, mixing and noise. The deflectors are pre-set and do not require any adjustments.



E1= Helical diffuser
T. Unit 365x365xh



E2= Helical diffuser
T. Unit 517x517xh



E3= Helical diffuser
T. Unit 595x595xh

DIFFUSER CODE	TERMINAL UNIT			DIFFUSER FEATURE							
	BxBxH	HOLE Ø mm	Maximum Supply AIR FLOW RATE m³/h	MOD.	S (m²)	V _k (m/s)	Dp (Pa)	NR	L _{0,2} (m)	I	ΔT _L /ΔT ₀
-	365x365x320	160	290	E1	0,0141	5,7	49	37	3,1	60,3	0,04
-	517x517x420	200	452	E2	0,0236	5,3	43	38	3,3	54,2	0,04
-	517x517x420	250	707	E2	0,0236	8,3	105	49	4,7	81,9	0,03
-	595x595x466	250	707	E3	0,0424	4,6	32	37	3,1	31,7	0,06
-	595x595x466	315	1122	E3	0,0424	7,4	82	48	4,6	48,6	0,04

Caption:

S= effective outlet area
V_k= velocity relating to S

Dp= pressure loss
NR= noise rating

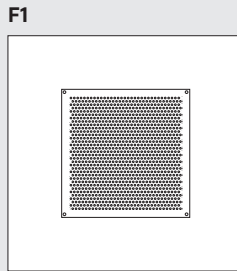
L_{0,2}= blast radius with V_m=0,2 m/s
I= induction ratio (=Q_i/Q₀)

ΔT_L/ΔT₀= temperature ratio

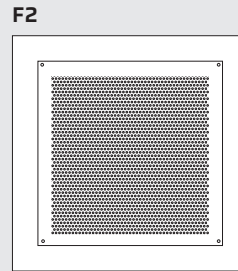
PERFORATED DIFFUSERS

RETURN / SUPPLY
Module 600x600 mm

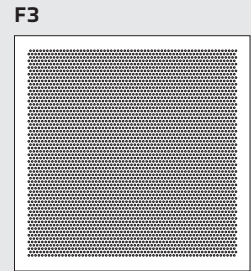
“F Series” perforated diffusers without deflectors for one-way flow, to be used as return or supply where a one-way flow is required, for example, above the operating table.



F1= Perforated diffuser
T. Unit 365x365xh



F2= Perforated diffuser
T. Unit 517x517xh



F3= Perforated diffuser
T. Unit 595x595xh

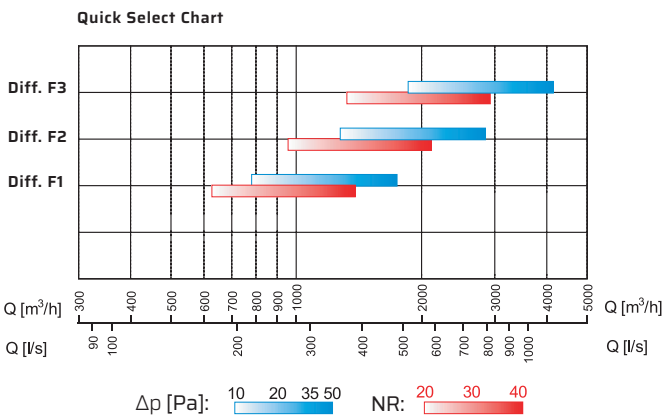
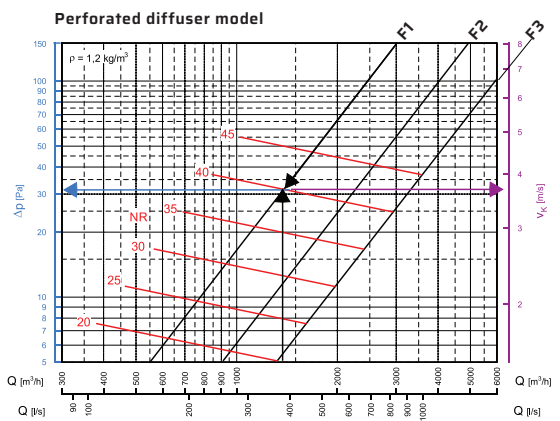


Chart caption:

Δp= total pressure loss [Pa]
Q= supply air flow rate [m³/h] o [l/s]

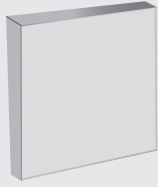
V_k= velocity relating to the effective outlet area S



NR= noise rating

(ISO standard, referred to 10⁻¹²W) not considering the attenuation of the room

ABSOLUTE FILTER FOR LAMINAR FLOW



Filters for absolute filtration of low turbulence laminar flows in controlled contamination environments. Extruded aluminum frame and filter in water-repellent fire-retardant glass microfiber, separators in heat-sealed wire and protective screen in painted steel on both sides. Two-component polyurethane sealant with one-piece cast polyurethane gasket. Filters fixing to the filter holder frame with seal through elastometer and mechanical tightening.

Each filter is equipped with con individual test certificate. Filtration Class:

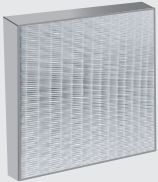
H14 | HEPA (High Efficiency Particulate Air filter) | weighted average efficiency: >99,999 (EN 1822)

U15 | ULPA (Ultra Low Penetration Air). | weighted average efficiency: > 99,9999 (EN 1822)

FIELDS OF USE

MAXIMUM TEMPERATURE	80°C	ΔP _f FINAL RECOMMENDED	600 Pa
RELATIVE HUMIDITY	100%	ΔP _f MAXIMUM	1000 Pa

HIGH-EFFICIENCY FILTERS



High-efficiency filters made up of a galvanized steel frame, a filtering septum in water-repellent fireproof glass microfiber, thermoplastic spacers and a polyurethane sealant.

Filtration Class: F7-F9 (EN1822:2009 - ISO 16890) | Weight Average Efficiency: 55% -80%

FIELDS OF USE

MAXIMUM TEMPERATURE	80°C	ΔP _f FINAL RECOMMENDED	300 Pa
RELATIVE HUMIDITY	100%	ΔP _f MAXIMUM	450 Pa

SYNTHETIC FIBER FILTER CELLS



Corrugated synthetic fiber filter cells for fine dust filtration, made up of a galvanized steel frame, a corrugated resin-coated synthetic fiber filter media and a galvanized steel electro-welded protection mesh fixed on both sides of the filter cell.

Filtration Class: F5 (EN779) | Weight Average Efficiency: 95%

FIELDS OF USE

MAXIMUM TEMPERATURE	80°C	ΔP _f FINAL RECOMMENDED	250 Pa
RELATIVE HUMIDITY	90%	ΔP _f MAXIMUM	400 Pa

TERMINAL UNITS FEATURES WITH FILTERS

SYSTEM CODE	TERMINAL UNIT*		FILTER			FEATURES OF THE SYSTEM WITH FILTER			
	BxBxH	HOLE Ø mm	MODEL	CLASS	BxHxP	Maximum S. AIR FLOW RATE m ³ /h	PRESSURE LOSS (Pa)	FILTER SURFACE m ²	EFFICIENCY %
-	365x365x320	160	ABSOLUTE	H14	305x305x68	151	120	2,7	>99,999
-	365x365x320	160	ABSOLUTE	U15	305x305x68	151	140	2,7	>99,9999
-	365x365x320	160	HIGH EFFICIENCY	F7	305x305x48	290	94	2,4	>55
-	365x365x320	160	HIGH EFFICIENCY	F9	305x305x48	290	148	2,4	>80
-	365x365x320	160	FINE	F5	305x305x48	290	80	0,3	>95
-	517x517x420	200	ABSOLUTE	H14	457x457x68	338	120	6,2	>99,999
-	517x517x420	200	ABSOLUTE	U15	457x457x68	338	140	6,2	>99,9999
-	517x517x420	200	HIGH EFFICIENCY	F7	457x457x48	452	94	5,3	>55
-	517x517x420	200	HIGH EFFICIENCY	F9	457x457x48	452	148	5,3	>80
-	517x517x420	200	FINE	F5	457x457x48	452	80	0,4	>95
-	517x517x420	250	ABSOLUTE	H14	457x457x68	338	120	6,2	>99,999
-	517x517x420	250	ABSOLUTE	U15	457x457x68	338	140	6,2	>99,9999
-	517x517x420	250	HIGH EFFICIENCY	F7	457x457x48	707	94	5,3	>55
-	517x517x420	250	HIGH EFFICIENCY	F9	457x457x48	707	148	5,3	>80
-	517x517x420	250	FINE	F5	457x457x48	707	80	0,4	>95
-	595x595x466	250	ABSOLUTE	H14	537x537x68	467	120	8,5	>99,999
-	595x595x466	250	ABSOLUTE	U15	537x537x68	467	140	8,5	>99,9999
-	595x595x466	250	HIGH EFFICIENCY	F7	537x537x48	707	94	7,4	>55
-	595x595x466	250	HIGH EFFICIENCY	F9	537x537x48	707	148	7,4	>80
-	595x595x466	250	FINE	F5	537x537x48	707	80	0,6	>95
-	595x595x466	315	ABSOLUTE	H14	537x537x68	467	120	8,5	>99,999
-	595x595x466	315	ABSOLUTE	U15	537x537x68	467	140	8,5	>99,9999
-	595x595x466	315	HIGH EFFICIENCY	F7	537x537x48	1122	94	7,4	>55
-	595x595x466	315	HIGH EFFICIENCY	F9	537x537x48	1122	148	7,4	>80
-	595x595x466	315	FINE	F5	537x537x48	1122	80	0,6	>95











On request:
custom made high and/or Ø custom made lateral connection upper air duct connection terminal units insulation

V (m/s) frontal speed
QNOM (m³/h) frontal speed
ΔP (Pa) Pressure lost






The characteristic curve of the filters, to be understood clean filter, allows to estimate the pressure losses (Δp) in function of the frontal speed (V) or of the percentage of flow with respect to the nominal one (Q_{NOM})

The pressure losses are equal to the losses due to the filter plus those related to the diffuser. For filter replacement, the recommended final pressure loss can be measured through the pressure probes installed at the terminal.

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
	COLOR STABILITY	In compliance with technical tolerances standard. Test according to the ΔE - CIELab method. ISO 7724-2 (3)
	FIRE REACTION UNI EN 13501-1	A1 Class
	METAL CEILING MAXIMUM LOAD	15 kg/m ²
	DURABILITY OF OF PAINTED ITEMS	C Class EN13964
	DURABILITY OF GALVANIZED ITEMS	B Class EN13964
	LIGHT REFLECTION	Smooth glossy white: up to 85% ISO 7724-2 (3)
	ACOUSTICS	Information in "Acoustic Performance"

HEALTHCARE

	AIR TIGHT	With reference to UNI EN ISO 1026 Standard by Istituto Giordano		CLEANING ⁽¹⁾	Wet cloth with warm water and neutral non-abrasive detergents.
	RESISTANCE TO MOLD ⁽⁴⁾	Products "Defence H"		DISINFECTION IDONEITY ⁽²⁾	"Defence 4H*" galvanised post-painted steel products only. VDI2083 P.17; ISO 4628-1; ISO2812-1 - Fraunhofer institute - Stuttgart
	ANTIMICROBIAL PROPERTIES ⁽³⁾ ISO 22916	Products "Defence 1H*" in galv. pre-painted steel : Products "Defence 2H*" in pre-painted aluminum: Products "Defence 3H* 4H*" in alu. / galv. st. post-paint:			action > 99% action >99% action >99%

(1): For environments with low risk of contamination. Clean the metal ceiling with a dry method before using water; the metal ceiling can be washed with high pressure water if all gaps are sealed with high resistance silicone. (2): Frequent cleaning with diluted disinfectants containing active agents such as formalin, hydrogen peroxide, sulfuric acid, phosphoric acid, hydrochloric acid, isopropanol, sodium hydroxide and sodium hypochlorite. (3): Information about the tested bacterial spectrum available on request. (4): Pre and post-painted steel and aluminum products are naturally resistant to mold due to the chemical and physical material features. The products maintain the declared performance features if properly cleaned and maintained.

SUSTAINABILITY

	RELEASE OF DANGEROUS SUBSTANCES*	None CAM 2.4.1.3 EN13964		FORMALDEHYDE*	E1 Class CAM 2.3.5.5
	DISASSEMBLY*	Steel Aluminium 100% recyclable CAM 2.4.1.1		MATERIAL DEMOLITION AND REMOVAL*	Non hazardous waste in compliance with CAM 2.5.1.
	RECYCLED PRODUCT CONTENT*	CAM 2.4.1.8 compliance		GREEN BUILDING	Requirements: LEED (BREEAM and ITACA for cross-section aspects)

* Data declaration as required by the ISO 14021 standard

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. It is recommended to clean the metal ceiling by dry-cleaning before proceeding with water. 24 Syncro Evo and Syncro XL Air-Tight can be washed with high pressure water if sealed with silicone. Metal ceilings made in antimicrobial post painted galvanised steel "Defence H4" tested for chemical resistance by Fraunhofer Institut di Stuggart, can be cleaned frequently with diluted disinfectants containing active agents such as formalin, hydrogen peroxide, sulfuric acid, phosphoric acid, hydrochloric acid, isopropanol, sodium hydroxide and sodium hypochlorite. 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 EQUIPEMENTS

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 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



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