



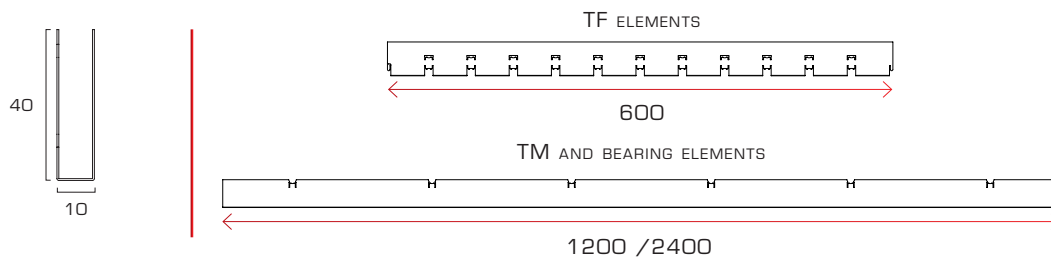
# Data Sheet

## DUALGRID OPEN CELL

### DESCRIPTION

DUALGRID is the modular cells system available in 600x1200 mm sizes. Its elements cross each other at different heights, creating a peculiar tri-dimensional effect.

### SECTIONS



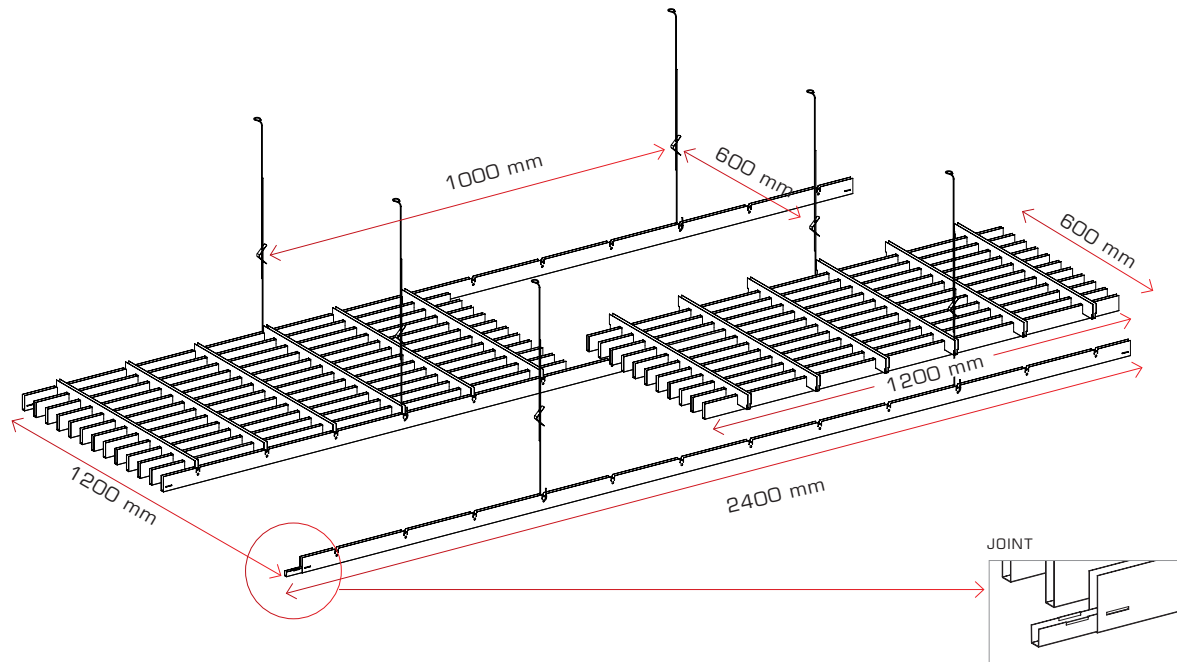
### TECHNICAL DETAILS:

	BASE 10 mm; h 40 mm			
<b>DIMENSIONS</b>	OPEN CELL TILES: 600x1200 mm		MAIN PROFILES: 2400 mm	
<b>MESHES</b>	50x200	75x200	100x200	150x200
<b>OPEN AREA</b>	76 %	82,3 %	85,5 %	88,67 %
<b>MATERIALS</b>	5/10 pre-painted aluminum			
<b>COLOURS AND FINISHING</b>	White or silver pre-painted aluminum Mirror finishing (AISI) on request Post-painting of all RAL color			
<b>PERIMETER PROFILES</b>	"C" 25x52x10 perimeter profile material and finishing as open cell			
<b>HANGERS</b>	Ø4 hanger with double spring			

### CERTIFICATIONS:

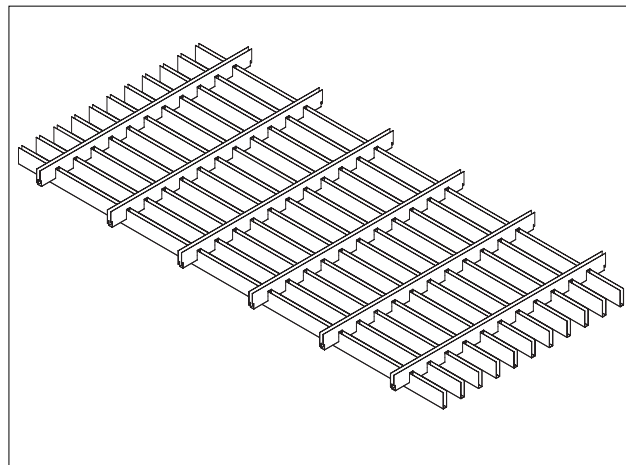
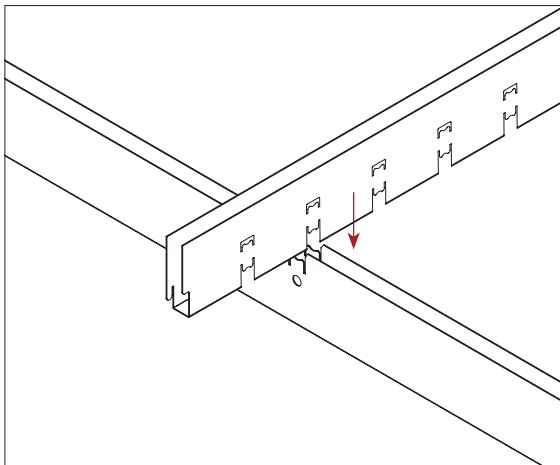
<b>FLEXION RESISTANCE</b>	Maximum span mm 1200 - 1 Class
<b>DURABILITY OF PRE-PAINTED ITEMS</b>	C Class
<b>RELEASE OF DANGEROUS SUBSTANCES</b>	No release of any dangerous substance according to the European law EN 13964:2014.
<b>FIRE REACTION</b>	A1 Class according to EN 13501-1.

## SYSTEM AXONOMETRY



## DUALGRID TILES ASSEMBLY

- Before starting the installation of the false ceiling, prepare Dualgrid tiles using TM and TF elements provided
- Drive the TF elements into the TM ones.



MODEL	MESHES	ELEMENT QUANTITY PER MODULE 600x1200 mm		PROFILE 2400 mm	LM/SGM*
		TM 1200 mm	TF 600 mm	PIECES/SGM	
DUALGRID	50x200	11	6	0,7	25,03
	75x200	7	6	0,7	18,36
	100x200	5	6	0,7	15,03
	150x200	3	6	0,7	11,70

\* VALUES DESCRIBE THE INCIDENCES OF TM AND TF

All dimensions are nominal and expressed in millimeters.

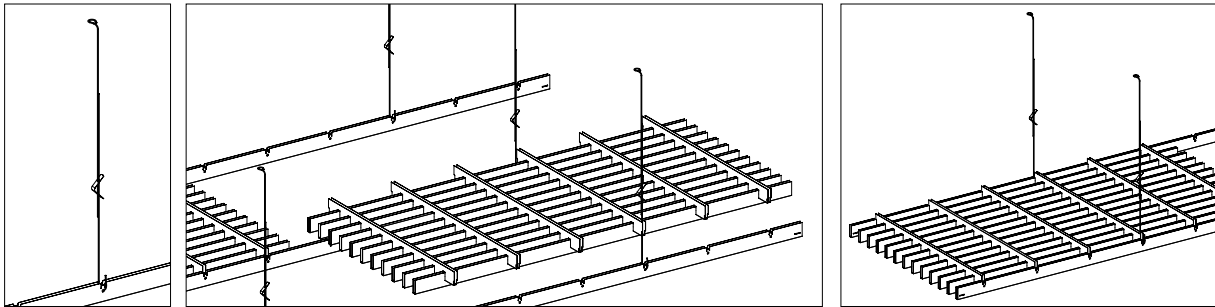
All technical specification data and information can be changed without advise.

For further information please contact sales department: tel. + 39 0421 75526 [commerciale@atena-it.com](mailto:commerciale@atena-it.com)

## LAYING INSTRUCTIONS

- Proceed with the installation of the structure:
  1. Draw the lines of the perimeter frame.
  2. Determine the height of the ceiling with a level and mark it with a string.
  3. Install the perimeter profile using screws or wedges suitable for the material of the walls.
  4. Fix the hangers with an interaxe according to the project requirements.
  5. Hook the bearing elements (TM 2400mm) to the hangers.
  6. Lay Dualgrid pre-assembled tiles on the bearing elements to complete the installation.

\*Verify the interaxe according to the load at m<sup>2</sup> and particular conditions.



## WEIGHTS PER SQM

MESHES	LM/SQM (TM AND TF ELEMENTS)
50x200	3,1
75x200	2,3
100x200	1,9
150x200	1,4

## PACKAGING

MODEL	ASSEMBLED TILES		NOT ASSEMBLED TILES		PROFILES 2400 mm
	PIECES PER BOX	BOX PER PALLET	TM	TF	PIECES PER BOX
			PIECES PER BOX		
DUALGRID	10	8	118	424	50

## SPECIFICATIONS

False ceiling realized in 5/10 pre-painted aluminum. Tiles, dimension 600x1200 mm, are made of TM and TF elements with U-shaped section, H40 mm and base 10 mm; they cross one another to create the desired mesh, creating a difference of 18 mm in height between the two elements. In the longitudinal way, tiles will be installed side by side and hanged to a bearing structure made with the same material and finishing of the open cell tile, creating a uniform and linear aesthetic effect. The bearing structure will be hanged to the concrete with hangers, mm 2 diameter, adjustable with a proper spring.

## STORAGE MODE

In order to guarantee to customers the realization of a perfect false ceiling, materials supplied by Atena S.p.A. shall be maintained in good conditions from purchase to installation. They must be stored in a closed, clean and dry site. 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. Tiles are packaged in brown cardboard boxes with stripe and delivered on pallets secured with cellophane. 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.

## CLEANING, MAINTENANCE AND REMOVAL

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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 neutral and not aggressive soaps. In case of any damage, tiles can be repainted or replaced.

False ceilings maintenance usually refers to: placing, alignment or replacement of damaged or broken tiles. Panels can be also removed for restoration or maintenance of the system below.

The maintenance work shall be appointed to: specialised workers trained with technical data sheets about setting, removal and maintenance of the false ceilings, in order to ensure excellent results.

Using inadequate tools can damage the structure, causing adherence loss or even accidental panel fall. All the maintenance intervention must follow the technical data sheet indication and every noted diversity has to be promptly reported.

Each worker assigned with maintenance operation must carefully remove the tile, perform the intervention and do not alter the false ceiling structure, the hanging system and the connection between these elements. When the maintenance is over, install again the panels, verifying that the tiles are properly laid on the T profile and the planarity is guaranteed. Any difference in tiles level is caused by wrong installation and, for this reason, they must be quickly controlled.

## LAWS REFERENCE AND WARRANTY

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Each Atena false ceiling is produced for internal use according to the technical rules for construction NTC 2008, and the specific regulations UNI EN 13964, 14195:2005.

Each Atena S.p.A. product has its own DOP (Declaration Of Performance) CE according to the European Law 305/2011.

False ceilings and claddings for internal and external use have to be dimensioned on environment features, to list some of the possible examples: earthquakes, wind, thermal expansion, place of installation, use destination of the building and project requests.

Independently by information, suggestions, advices and technical opinions exchanged between the parts, Atena S.p.A. will produce its 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.

Atena S.p.A., as producer, is responsible for manufacturing defects. Complaints have to be presented according to the selling conditions. Materials used for Atena false ceilings have been produced just with this purpose, every other use is considered improper.