

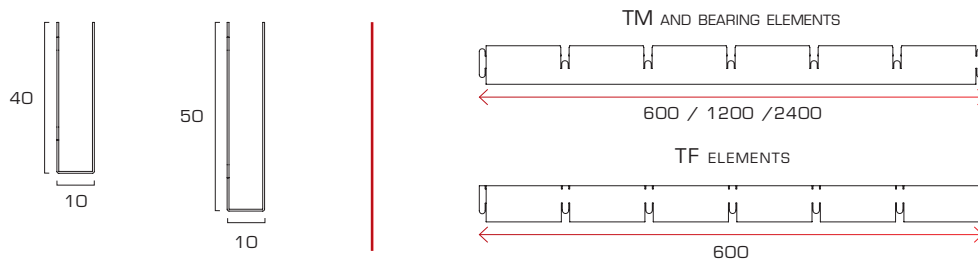
# Data Sheet

## H40-H50 OPEN CELL

### DESCRIPTION

Atena open cell modular false ceiling H40 and H50 have their own main structure which can be adapted to the existing building elements, obtaining an effect of continuousness without junctions or gaps among the tiles.

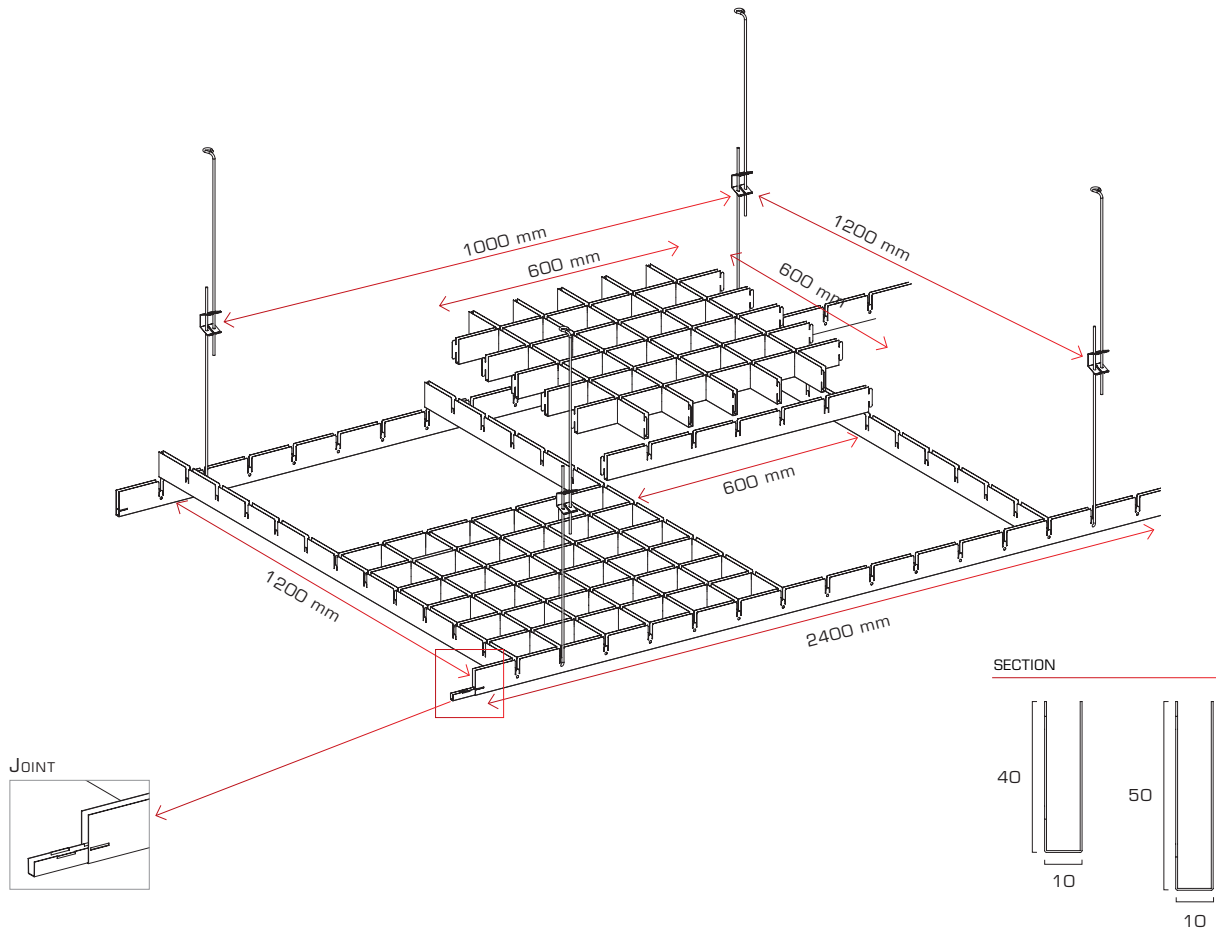
### SECTIONS



### TECHNICAL DETAILS:

	10x40 mm   10x50 mm							
<b>DIMENSIONS</b>	OPEN CELL TILES:		600x600 mm					
	MAIN PROFILE:		2400 mm					
	CROSS PROFILE:		1200 mm					
	CROSS PROFILE:		600 mm					
<b>MESHES</b>	50x50	60x60	75x75	86x86	100x100	120x120	150x150	200x200
<b>OPEN AREA</b>	64 %	69,44 %	75,11 %	78,1 %	81 %	84,03 %	87,1 %	90,25 %
<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" 25x42x10 perimeter profile for H40 "C" 25x52x10 perimeter profile for H50 Material and finishing as the open cell							
<b>HANGERS</b>	Ø4 hanger with double spring							
<b>CERTIFICATIONS:</b>								
<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



MODEL	MESHES	ELEMENT QUANTITY PER MODULE 600x600 mm		PROFILE 2400 mm	PROFILE 1200 mm	PROFILE 600 mm	LM/SGM
		TM 600 mm	TF 600 mm	PIECES/SGM			
H40	50x50	11	11	0,7	-	2,7	40,00
	60x60	9	9	0,7	-	2,7	33,33
	75x75	7	7	0,36	1,38	1,38	26,66
	86x86	6	6	0,36	1,38	1,38	23,33
H50	100x100	5	5	0,36	1,38	1,38	20,00
	120x120	4	4	0,36	1,38	1,38	16,66
	150x150	3	3	0,36	1,38	1,38	13,33
	200x200	2	2	0,36	1,38	1,38	10,00

## MATERIAL WEIGHTS

MESHES	H40	H50
50x50	4,9	6,0
60x60	4,1	5,0
75x75	3,3	4,0
86x86	2,9	3,5
100x100	2,5	3,0
120x120	2,1	2,5
150x150	1,6	2,0
200x200	1,2	1,5

WEIGHTS ARE PER SQM

## PACKAGING

MODEL	ASSEMBLED TILES		NOT ASSEMBLED TILES				PROFILE 2400 mm	PROFILE 1200 mm	PROFILE 600 mm
	A	B	TM		TF		PIECES PER BOX		
			A	B	A	B			
H40	20	8	424	26	424	26	50	118	424
H50	16	8	338	26	338	26	34	96	338

A PIECES PER BOX | B BOX PER PALLET

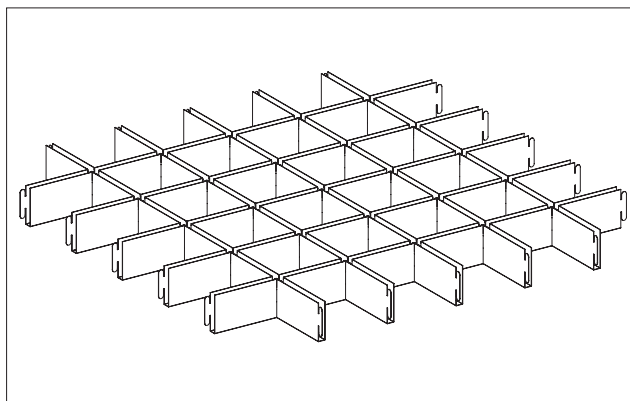
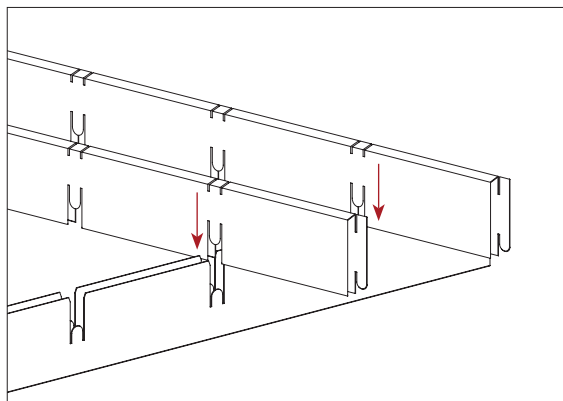
All dimensions are nominal and expressed in millimeters.

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)

## TILES H40 - H50 ASSEMBLY

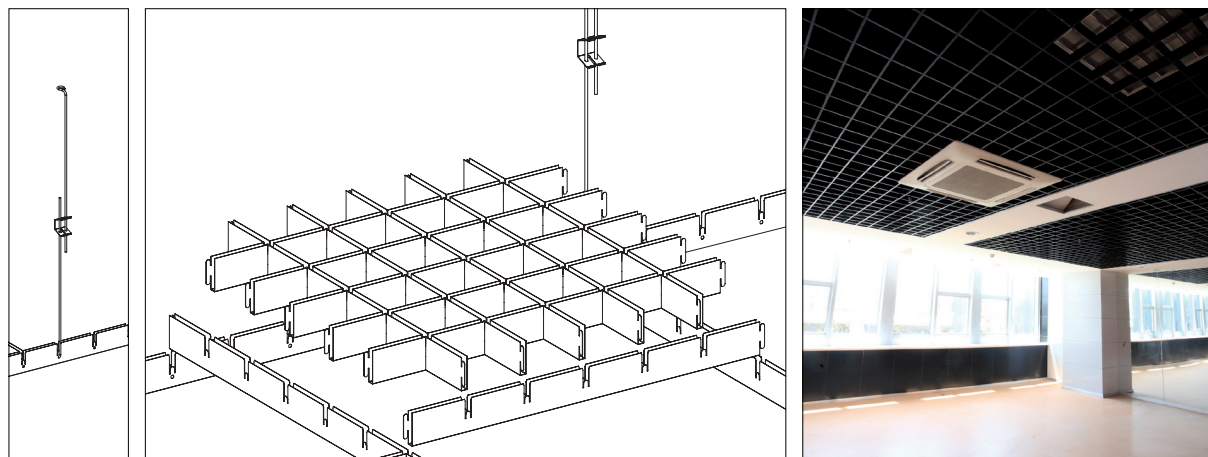
- Before starting the installation of the false ceiling, prepare H40 - H50 tiles using the provided TM and TF elements creating the desired mesh. (If the tiles are not provided already assembled)



## LAYING INSTRUCTIONS

- Proceed with the installation of 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 wall angles with nails, screws and / or plugs suitable to the wall material.
  4. Fix the hangers according to the type of ceiling to be installed.
  5. Hang the main runners (TM2400) to the hangers.
  6. Proceed with the installation of 1200 mm cross profiles with an interaxe of 600 mm\*.
  7. Install 600 mm cross profile with an interaxe of 600 mm\*.
  8. Lay the assembled open cell tiles on the the structure.

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



## SPECIFICATION

H40 - H50 false ceiling is made up of 600x600 mm tiles composed of TM and TF elements having a U-shaped section with a height of 40 mm or 50 mm and a base of 10 mm. These elements cross each other to realize the desired mesh and they are installed with an integrated bearing structure made up of 2400 and 1200 profiles, provided with the same material and finishing of the open cell.

The bearing structure will be fixed to the concrete with galvanized steel hangers, 4 mm diameter, adjustable through a proper spring. The perimeter will be made with 25x42x10 "C" profiles (for H40 open cell) or with 25x52x10 "C" profile (for H50 open cell), provided with the same material and finishing as the open cells.

The system can be combined with lighting elements, directly integrated in the structure with proper shaped elements.

## 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

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

---

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.