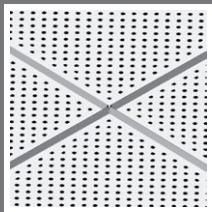


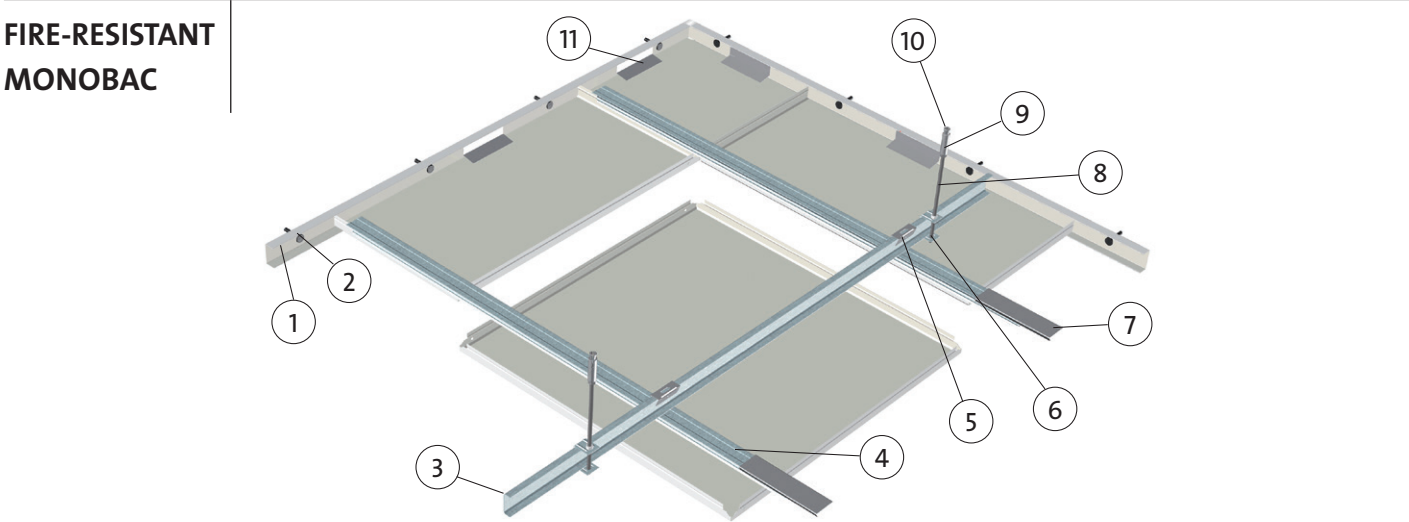
# FIRE-RESISTANT MONOBAC INSTALLATION GUIDE



This installation method will enable you to prepare and easily fit your Plafometal metal ceiling.

Please contact us and refer to the Fire Resistance Report prior to installation.

RANGE	SOLUTION WITH FOLDING AC510 HANGERS CONCEALED GRID - MODULE 600 x 600 mm
-------	---

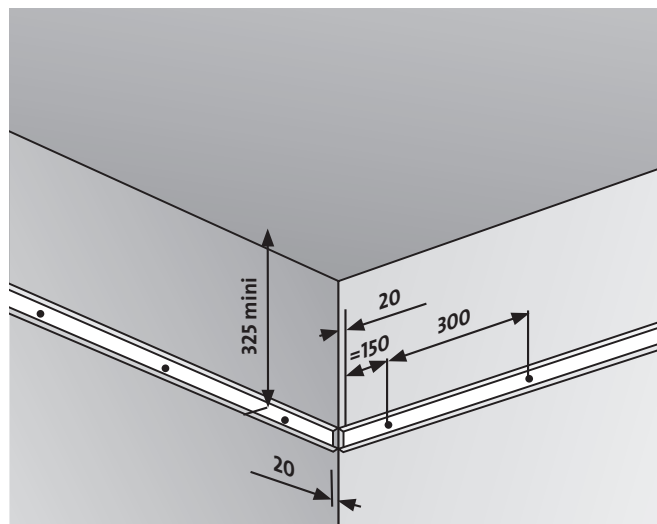


BILL OF MATERIALS PER M <sup>2</sup>			
Illustration	Item no.	Description	Quantity / m <sup>2</sup>
	1	U-SECTION EDGE CHANNEL 19x40x19 - Length: 3,000 mm Ref: U+1802BA	Depending on the perimeter
	2	HAMMER-IN FIXING Dia. 5.7x35 mm	Depending on the perimeter
	3	U-SECTION PRIMARY PROFILE - Height: 38 - Length: 4,000 mm Ref: U1029	0.84 ml
	4	T-SECTION SECONDARY PROFILE - Length: 4,000 mm for aluminum or steel panels Ref: D5110	1.7 ml
	5	SUSPENSION BRACKET FOR U-SECTION PRIMARY PROFILE Ref: AC 21	0.7 units
	6	CONNECTING HANGER FOR U-SECTION PRIMARY PROFILE – T SECTION SECONDARY PROFILE Ref: AC510	1.4 units
	7	T-SECTION SECONDARY PROFILE CONNECTOR Ref: AC53	0.42 units
	8	THREADED ROD Dia. 6x1,000 mm Ref: TFZ6	0.7 units
	9	NUT H6 Ref: 778	1.4 units
	10	STEEL PLUG 12x40 mm	0.7 units
	11	EDGE WEDGE Ref: P6800013	Depending on the perimeter

Unless otherwise specified, all dimensions are in millimeters (mm).  
Please contact us and refer to the Fire Resistance Report prior to installation. Each step includes a diagram, tips and the tools used.

## 1 FITTING THE PERIMETER CHANNELS

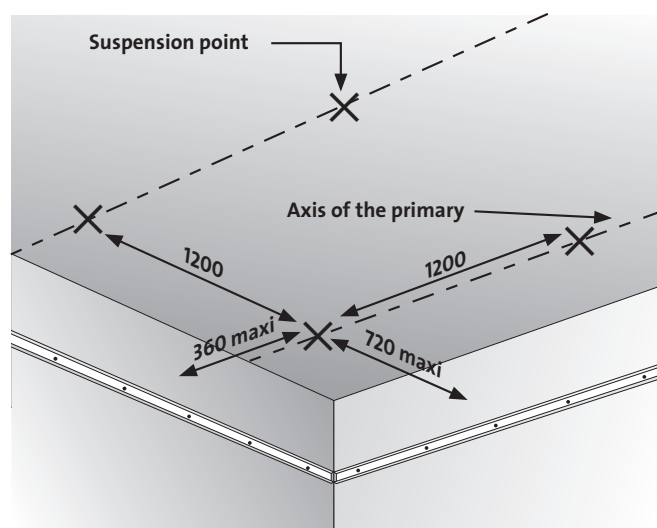
- ▶ Install the perimeter channels (19 x 40 x 19 mm) to the concrete walls around the ceiling.
- ▶ Fix to the walls with hammer-in fixings (Dia. 5.7 x 35 mm) no more than every 300 mm.
- ▶ Corners: allow for a 20 mm expansion gap between the ends of the perimeter channels.
- ▶ Height: the lower wing of the channels must be at least 325 mm from the concrete slab.



## 2 MARKING THE SUSPENSION POINTS ACCORDING TO THE LAYOUT PLAN

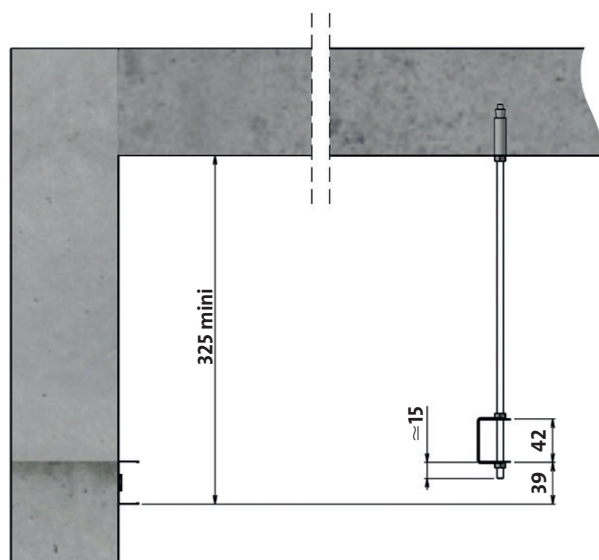
Mark the suspension points for the primary profiles according to the following rules:

- ▶ Maximum distance of the first primary profile from the wall: 720 mm.
- ▶ Distance between primary profiles: 1200 mm.
- ▶ The first hanger is no more than 360 mm from the wall.
- ▶ Distance between hangers: 1200 mm.



## 3 INSTALLING THE HANGERS (installation rules)

- ▶ After drilling into the upper floor slab, insert Dia. 12x40 steel plugs and screw in the Dia. 6 mm threaded rods. Install the threaded rod + bracket + nut assembly as shown in the diagram (bottom of the bracket approximately 39 mm from the bottom of the channel and the top of the bracket approximately 81 mm (= 39+42) from the top of the channel).
- ▶ The bracket can be fitted at the same time as the main grid (see step 4).

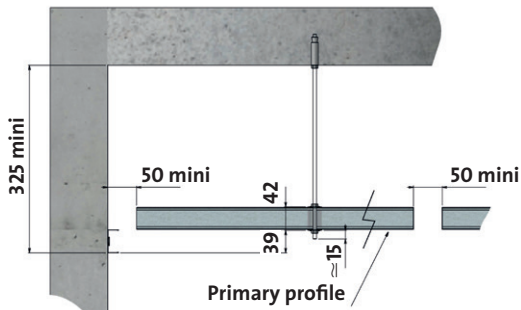


All dimensions are specified in millimeters (mm), unless otherwise specified.

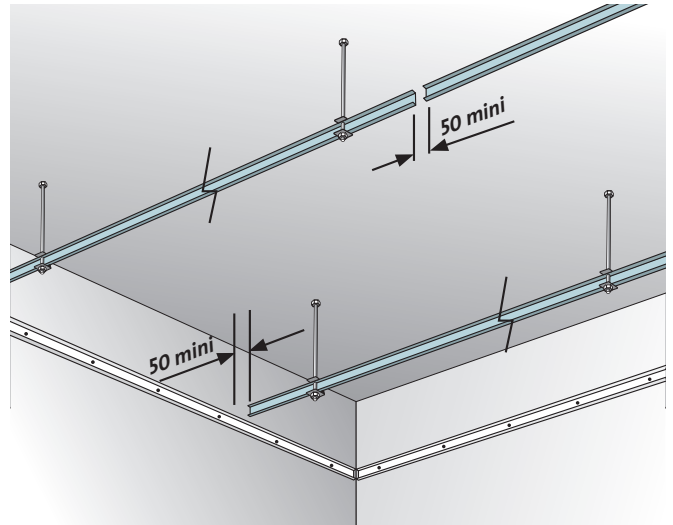
# FITTING PROCEDURE

## For MONOBAC FS

### 4 INSTALLING THE MAIN GRID

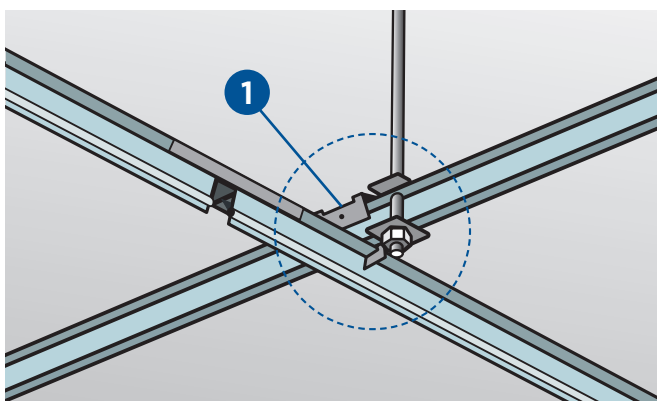
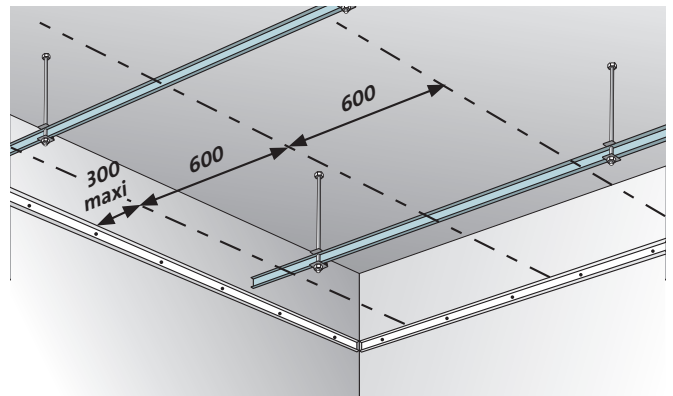


- Insert the primary profile into the suspension bracket.
- Allow for an expansion gap of at least 50 mm at each end of the primary profiles.
- After adjusting, tighten the bracket nuts.

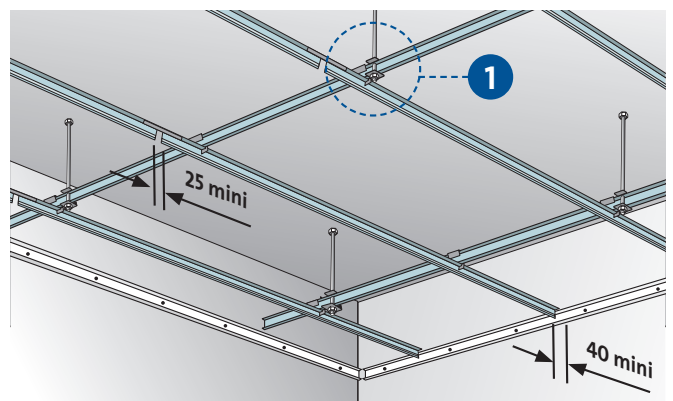


### 5 INSTALLING THE SECONDARY GRID

- Slide the AC510 linking accessory onto the secondary profile and then position the secondary profiles perpendicularly beneath the primary profiles with 600 mm centers.
- The secondary profile must not be more than 300 mm from the wall.



- Bend the top fold of the AC510 ① accessory towards the inside of the primary profile.



- Allow for an expansion gap of at least 40 mm between the end and the wall.
- Join the profiles together with the AC53 coupling plate while allowing for a 25 mm gap between each secondary profile.

Your grid is in place! You can now clip on the Monobac tiles

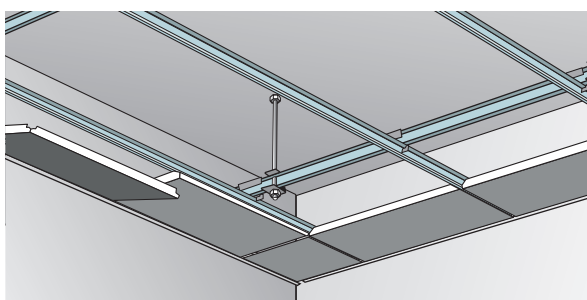
All dimensions are specified in millimeters (mm), unless otherwise specified.

PLAFOMETAL

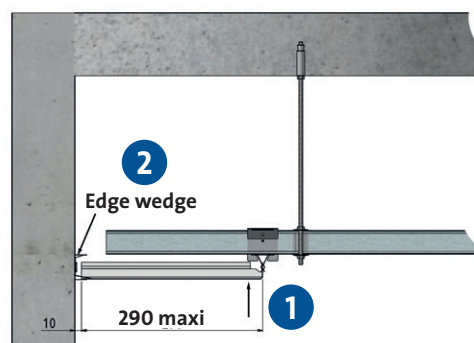
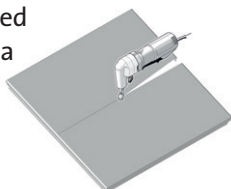
## 6 INSTALLING THE METAL TILES

### MONOBAC EDGE TILES

Start by fitting the Monobac metal tiles in a corner:

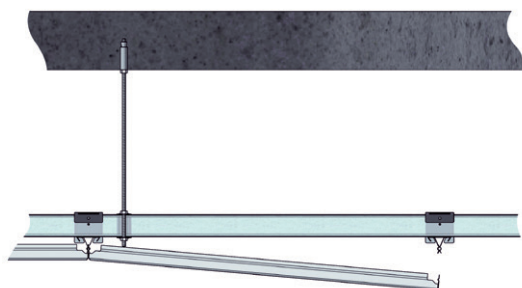


- ▶ Cut the metal tile to the required dimensions while allowing for a gap of 10 mm ( using a nibbler).
- ▶ Remove the film from the edges of the Monobac tile.

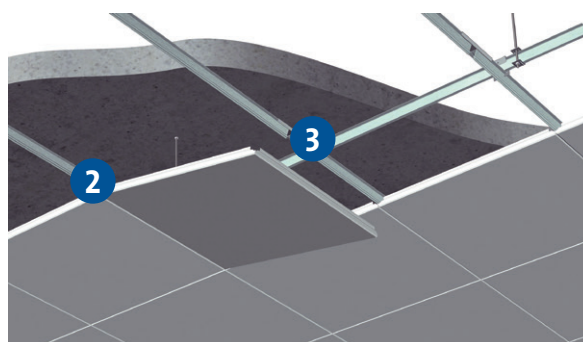
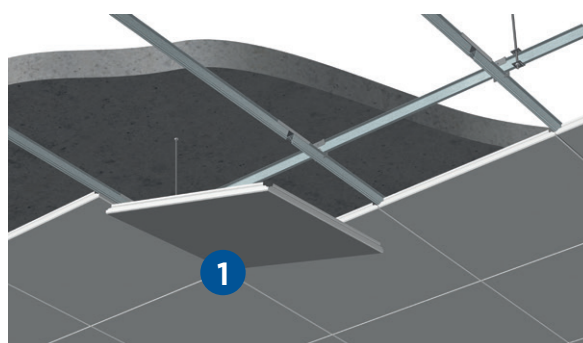


- ▶ Clip the marked edge into the secondary grid ①.
- ▶ Block the cut edge in the channel using an edge wedge ②.

### FULL MONOBAC TILES



- ▶ Remove the film from the edges of the Monobac tile.
- ▶ Present the Monobac metal tile at an angle to the secondary grid next to a metal tile that has already been fitted.
- ▶ Start by clipping the tile in a corner ① and then in the center and the second corner ②: the first edge of the Monobac tile is now clipped into place!
- ▶ Follow the same procedure for the other side ③.



#### **i** TIPS:

- ▶ Monobac tiles can be clipped on the four sides thanks to the continuous grooves along the four edges.
- ▶ If tiles need to be cut on site, use a nibbler on a film-wrapped Monobac tile to protect the product.

All dimensions are specified in millimeters (mm), unless otherwise specified.

**PLAFOMETAL**

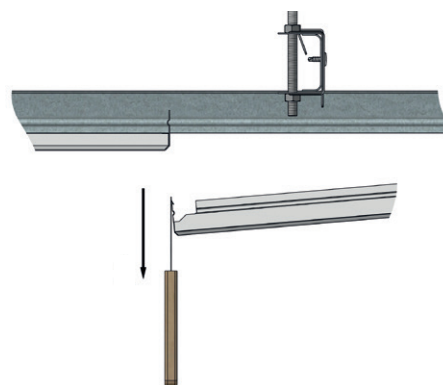
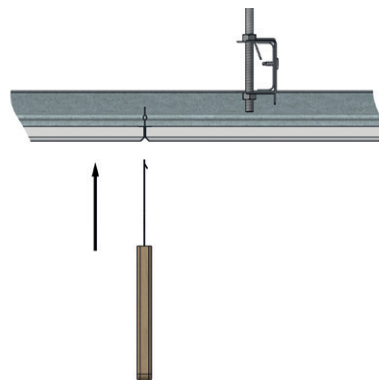
# REMOVAL PROCEDURE

## Fire-resistant MONOBAC

### 7 ACCESSING THE PLENUM: OCCASIONAL REMOVAL OF METAL TILES

- ▶ Slide the disassembly tool between two Monobac tiles in the center.
- ▶ Then slide the tool to one of the corners.

- ▶ To unclip the corner of the metal tile, pull downwards.



#### **i** TIPS:

- ▶ Preferably avoid placing the tool beneath the secondary grid.
- ▶ The side of the Monobac tile that is not beneath the secondary grid is the one where the tool is the easiest to slide.

All dimensions are specified in millimeters (mm), unless otherwise specified.



# APPENDIX

## Fire-resistant MONOBAC

### STORAGE

All our products must be stored on edge, on a flat surface and in a dry place away from inclement weather and the risk of impacts.

### CARE / CLEANING

Our ceilings only require minimal maintenance. Various types of cleaning methods can be used:

- ▶ To remove dust, use a soft brush or vacuum cleaner with a non-abrasive nozzle.
- ▶ To remove pencil or similar marks, simply use an eraser.
- ▶ In case of grease stains, use a cloth slightly dampened with a surfactant, taking care not to get the insulation material wet.
- ▶ For other stains or dirty marks, use a damp cloth or sponge, taking care not to get the insulation material wet.

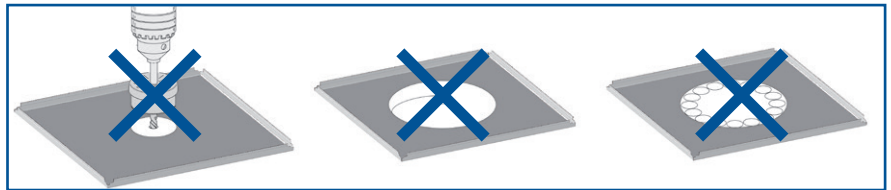
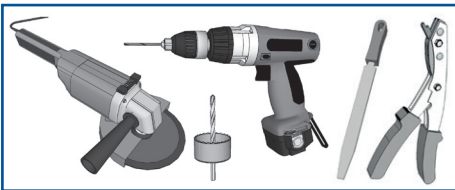
Never use abrasive products.

When using chemicals, always test on a concealed part of the ceiling.

Contact us before using disinfectant solutions.

### ON-SITE CUTTING

Caution: cut-outs for light fixtures or other equipment are not covered by the Fire Resistance Report (contact us).



## PLAFOMETAL

Route de Phades - 08800 MONTHERME  
Tel.: +33 (0)3 24 59 54 18 - +33 (0)3 24 59 54 25  
E-mail: [plafometal@plafometal.com](mailto:plafometal@plafometal.com)  
[www.plafometal.com](http://www.plafometal.com)