



# FMC 50

**FMC 50 (Fill Media - Crossed type – 50 mm)** is a structured fill media obtained by the assembly of PVC thermoformed sheets.

### Design

The thermoformed profile is 50 mm in height. The sheets have a crossed type design, with 60° inclined flutes with respect to the horizon, which present a inlet section of 100 mm (50 + 50 mm).

The PVC thermoformed sheets can be made of different thicknesses in order to adapt the block mechanical characteristics to the specific application needs.

### Principal applications:

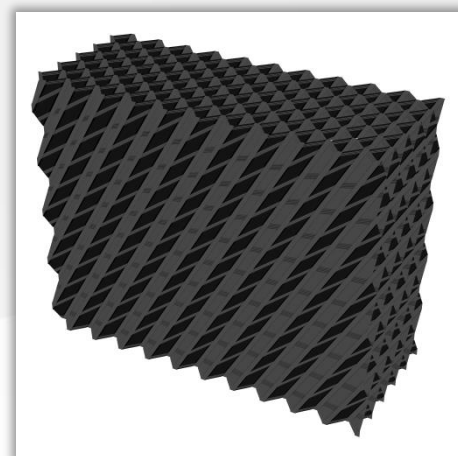
The FMC 50 honeycomb structure and its high specific surface allow this product to find a wide use in many applications among with:

- ❖ Fill media for evaporative cooling towers with dirty water
- ❖ Fill media for waste water treatment, such as trickling filters and compact systems

### PVC Characteristics:

The PVC used to make this fill media comply with the most restrictive standards, such as the CTI rule 136 and the ASTM E-84, presenting many advantages:

- ❖ Lightness, which allows an easy handling;
- ❖ Self-extinguishing and fire resistant (ASTM E-84);
- ❖ High mechanical resistance, in particular to compression;
- ❖ Resistance to the majority of chemicals and to the biological aggression;
- ❖ It is an hydrophilic material, this is why water forms a well distributed liquid film while flowing on it.



### Working Temperature

PVC Standard	High Temperature	Low Temperature
-5°C ÷ 60°C	-5°C ÷ 75 (77)°C	- 40°C ÷ 60°C

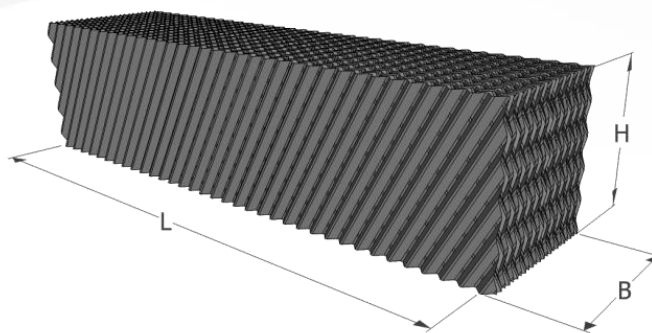


### Available Sizes

Sheets sizes depend on the mould size and from the possibilities given by our thermoforming plants.

On request we can supply cut to size blocks.

FMC 50 can be supplied both in pre-assembled blocks and sheets to be assembled on site. The latter option allow to optimize the freight volume and consequently to reduce the transport costs. The assembly process can be chemical, using a solvent glue, which doesn't leave any residual in the finished product, or thermal, by welding. Refill-tech solutions can supply the suitable machines to make these operations.



#### Standard Block Sizes: L x W x H

1200 x 500 x 500 mm    1200 x 500 x 1000 mm

#### Standard Sheet Sizes: L x H

1250 x 500 mm    1250 x 500 mm

Specific Surface	Thermoformed Profile Height	Standard Sheet Thickness	Void Index	Material
66 m <sup>2</sup> /m <sup>3</sup>	50 mm	700 micron	97 %	PVC o PS