



# LSM 60

## LSM 60 (Lamella Settler Module 60 mm)

is a lamella pack obtained by the assembly of PS or PVC thermoformed sheets with a parallel channel design. This product is also available with crossed flutes (please refer to TFM 50 data sheet).



### Design

The product has been studied to maximize the projected surface without limiting the wastewater free passage.

The channels have a arrow shape in order to allow the best solid Flow.

LSM lamella pack can be made of different sizes.

Furthermore it is possible to cut them to size: all these customization

possibilities make the product easy to adapt to any kind of plant or basin, including circular ones.

All these customization possibilities make this product easily adaptable to any type of plant or basin, including the older Dortmund Clarifiers. The structure is self-supporting, so it is not necessary to use metal frames.

### Principal Applications

The channels sizes and the considerable projected surface allow this product to find a wide use in many applications in wastewater treatment, among with :

- ❖ primary and secondary clarifiers (settlers) in wastewater treatment plants;
- ❖ flocculation.

### Polymers Characteristics

The PS and PVC used to make this lamella settler module comply with the most restrictive standards, presenting many advantages:

- ❖ Lightness, which allows an easy handling;
- ❖ High mechanical resistance;
- ❖ Resistance to the majority of chemicals and to the biological aggression;
- ❖ On demand the product can be supplied in polymers that are compatible with drinking water applications.

Material	color	Standard Thickness	Working Temperature	Standards compliance
Standard PS	carbon black	Max 1,0 mm	-5°C ÷ 77°C	
PS for drinking water (food grade)	grey		-5°C ÷ 77°C	1935/2004/CE18 95/2005/CE 10/2011/UE
Standard PVC	carbon black		-5°C ÷ 60°C	CTI 136 ASTM E-84
PVC for drinking water (food grade)	blue		-5°C ÷ 60°C	1935/2004/CE18 95/2005/CE 10/2011/UE



### Available Sizes

Sheets sizes depend on the mould size and from the possibilities given by our thermoforming machines. On request we can supply cut to size blocks.

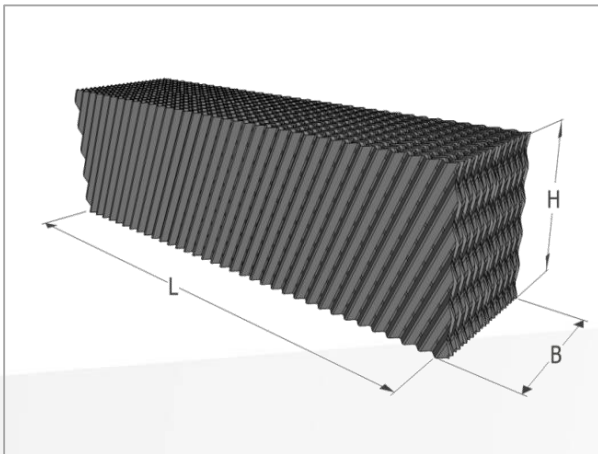
LSM60 can be supplied both in pre-assembled blocks and sheets to be assembled on site.

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 can supply the suitable machines to make these operations.

Standard Blocks Sizes				
Width B	Inclination	Lenght L (without projection)	Height H (min ÷ max)	Projected Surface*
Depending on the sheet number pitch 50 mm	60°	1.200 mm	500 ÷ 1.000 mm	13,2 m <sup>2</sup> /m <sup>3</sup>



Hydraulic Data			
Hydraulic Radius	Hydraulic Diameter	Flute Sizes	Flute Shape
2,0 cm	8,0 cm	102 x 100 mm	Irregular Hexagon

\* Projected Specific Surface (m2/m3) can be increased of 10% by thermoforming process respect the mentioned values.