

Lamellars for decantation

Optimization of the decantation process for the treatment of waste water

The lamellars distributed by **Dim Water Solutions** are specially designed to provide the highest efficiency in decantation, being one of the models that **increase the most projected surface**.

Its characteristics offer the **best performance** in the market: greater separation capacity of suspended solids, greater surface area per m², reduction of civil engineering costs, assembling technology, freestanding and with food certificate.



Main features of our lamellars:

- **Larger projected surface:** thanks to the design in the form of a regular hexagon, our lamellars have one of the largest surfaces projected between the lamellars that exist in the market.
- **Increased stiffness:** The lamellars are formed by profiles in PP or PVC welded with ultrasound. The number of weld points is greater to support the weight of the sludge in the lamellars for stability and safety.
- **Flexible design:** thanks to its modular design and sophisticated assembly system the lamellars can be adapted to any type of decanter.
- **Suitable for food use:** They have the certificate of suitability for the alimentary use, reason why they can be used in plants of treatment of drinking water.
- **Support and antifoatation system:** One of the indispensable requirements in each project is the structural calculation of the support of the lamellars to guarantee the total safety of the work, even in episodes of high accumulation of sludge in the lamellars.
- **Results verified with CFD simulation:** The lamellars have been tested not only in the plants and facilities, but their design has also been verified with powerful programs based on the computational simulation of fluids. These studies have served to optimize the lamellar decantation of the plants, reinforcing our 30 years of experience in the sector.

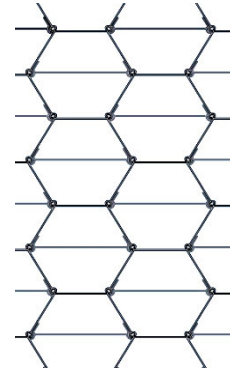
Models according to the decanting needs

We have 3 models of standard lamellars (Dim40, Dim60 and Dim80) **according to the distance between the walls of the module**. In addition, if special measures are needed, we design the appropriate lamellar to obtain **the highest decanting performance**.

We have engineering for the **custom design**. We carry out the **concrete study** of each plant in order to **optimize to the maximum** the decantation system as much as possible.

Lamellar Model Dim-40

Type of lamellar	Lamellar Dim-40	
Material	PVC	PP
Geometry	Hexagonal	Hexagonal
Maximum operating temperature	55°C	80°C
Weight per m3 of lamella	90kg	65kg
Inclination	60° - 55°	60° - 55°
Hydraulic diameter	40 mm	40 mm
Surface area/projected at 60°	16,29 m2/m3	16,29 m2/m3
Surface area/projected at 55°	18,17 m2/m3	18,17 m2/m3
Distance between walls	42 mm ± 1 mm	42 mm ± 1 mm
Standard height of the modules	1.000 mm	1.000 mm



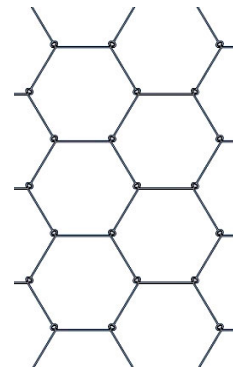
Lamellar Model Dim-60

Type of lamellar	Lamellar Dim-60	
Material	PVC	PP
Geometry	Hexagonal	Hexagonal
Maximum operating temperature	55°C	80°C
Weight per m3 of lamella	70kg	50kg
Inclination	60° - 55°	60° - 55°
Hydraulic diameter	60 mm	60 mm
Surface area/projected at 60°	12,25 m2/m3	12,25 m2/m3
Surface area/projected at 55°	13,27 m2/m3	13,27 m2/m3
Distance between walls	62 mm ± 1 mm	62 mm ± 1 mm
Standard height of the modules	1.000 mm	1.000 mm



Lamellar Model Dim-80

Type of lamellar	Lamellar Dim-80	
Material	PVC	PP
Geometry	Hexagonal	Hexagonal
Maximum operating temperature	55°C	80°C
Weight per m3 of lamella	50kg	35kg
Inclination	60° - 55°	60° - 55°
Hydraulic diameter	82 mm	82 mm
Surface area/projected at 60°	8,20 m2/m3	8,20 m2/m3
Surface area/projected at 55°	9,23 m2/m3	9,23 m2/m3
Distance between walls	82 mm ± 1 mm	82 mm ± 1 mm
Standard height of the modules	1.000 mm	1.000 mm



Applications of our decantation lamellars:

Clarification ETAP's, Primary decanting, Secondary decanting, Tertiary treatment, Tanks for storms, Waste water treatment...