



AP LAMELLAR MODULES

POLYPROPYLENE
NATURAL

**Hidro
Water**



GLOBAL WATER TREATMENT EQUIPMENT PROVIDER



OVERVIEW

Sedimentation is the most used unit process to carry out solid-liquid separation

If we apply the **AP LAMELLAR MODULES**, formed by a multitude of independent hexagonal tubes, the specific surface area is increased, favoring the sedimentation of the particles.



- Each lamellar module is made up of multiple independent tubes of defined length, which form laminar flow zones ideal for developing particle decantation.
- The small, completely smooth channels prevent the blockage of solids and allow easy circulation of liquids, increasing plant performance.

- The water to be treated enters at a predetermined speed through the bottom of the tubes and rises through them to the top of the lamella.
- The flow of water through the lamellar tubes must maintain a total absence of turbulence to facilitate the sedimentation of solid particles. During this journey, many small particles group together forming others of larger size and weight, which are easier to settle.

HIDRO-WATER AP LAMELLAR MODULES



APPLICATIONS

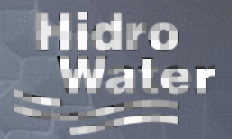
- Clarification in **drinking water treatment** (ETAP)
- Primary and tertiary sedimentation of **urban wastewater**
- **Physical-chemical decantation** in industrial waters (EDARI)
- **Mineral recovery** in aggregate, marble, etc. quarries.
- **Secondary Sludge Sedimentation** (EDAR)
- **Sand filter** washing water.
- Clarification in **storm ponds**.

ADVANTAGES

- Easily manageable and **LIGHT WEIGHT** modules compared to other modules
- **Self-supporting** lamellar packages with excellent mechanical resistance.
- Made from **Natural PP**.
- Ideal for **drinking water**.
- **Resistant to chemical attack** and microorganisms in highly contaminated wastewater (slurry, alpechines, hydrocarbons...)
- Great **mechanical resistance**
- **No large support** structures are needed for installation.
- **Less space** requirement than conventional equipment.
- They considerably **reduce the initial investment**.
- They **increase the settling capacity** in existing facilities.
- Greater **surface area per m2**
- **Lower** maintenance **costs**.



HIDRO-WATER AP LAMELLAR MODULES



TECHNICAL FEATURES



MODEL	AP40/PP
MATERIAL	NATURAL PP
INCLINE	60°
VERTICAL HEIGHT MODULE	1000 mm
MODULE WIDTH	1030 mm
LAMEL LENGTH	1154 mm
DISTANCE BETWEEN LAMELAS	41 mm
HYDRAULIC DIAMETER	0.039 m
PROJECTED SURFACE	16.8 m ² /m ³
MAXIMUM TEMPERATURE	50°C
WEIGHT	28 Kg/m ³

MODEL	AP60/PP
MATERIAL	NATURAL PP
INCLINE	60°
VERTICAL HEIGHT MODULE	1000 mm
MODULE WIDTH	1030 mm
LAMEL LENGTH	1154 mm
DISTANCE BETWEEN LAMELAS	56 mm
HYDRAULIC DIAMETER	0.055 m
PROJECTED SURFACE	12.2 m ² /m ³
MAXIMUM TEMPERATURE	50°C
WEIGHT	22 Kg/m ³

MODEL	AP80/PP
MATERIAL	NATURAL PP
INCLINE	60°
VERTICAL HEIGHT MODULE	1000 mm
MODULE WIDTH	1030 mm
LAMEL LENGTH	1154 mm
DISTANCE BETWEEN LAMELAS	87 mm
HYDRAULIC DIAMETER	0.08 m
PROJECTED SURFACE	8.44 m ² /m ³
MAXIMUM TEMPERATURE	50°C
WEIGHT	22 Kg/m ³



QUESTIONS?

We answer you

hidrowater@hidro-water.com

(+34) 96 198 62 30

www.hidro-water.com

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