



# SESSIL<sup>®</sup>

Vertical Plastic Strip Media for  
Trickling Filters

- ▶ Ideal for pretreating high strength industrial wastewater and typical municipal water
- ▶ Continuous vertical design with no packing interfaces to accumulate solids
- ▶ Manufactured of UV stabilized, high density polyethylene for long life

We are **Raschig USA** and we supply media for biological treatment systems for industrial and municipal water and wastewater treatment facilities around the world.

**Call us today to discuss fixed film solutions for your project!**





## Fixed Film Technology for Wastewater Treatment

# SESSIL®

Vertical Plastic Strip Media for  
Trickling Filters

## Sessil Trickling Filter System

Sessil is a unique "strip-type" media specifically designed for trickling filter applications. Developed over 20 years ago, Sessil is in service today in more than 100 trickling filters worldwide.

Sessil trickling filters are proven performers for WWTP upgrades and new construction. With a history of success treating high strength industrial wastewater and typical municipal wastewater, Sessil is ideal for reducing soluble BOD concentrations by up to 90%.



### Economic and Operating Advantages:

- ▶ Extremely low operating costs with minimal energy requirements and maintenance
- ▶ Reduced size and energy requirements of down stream biological systems
- ▶ Improved process control and stability
- ▶ Lower sludge production than other aerobic processes
- ▶ Reduced surcharges paid by industry to municipalities

### Benefits of Sessil Trickling Filter Media

- ▶ No packing interfaces to accumulate solids which can cause odors and clogging
- ▶ No gluing or adhesives required, eliminating issues from VOCs
- ▶ No grating required. A durable working deck is created by the support boards providing stable access the rotary distributor.
- ▶ Reduced transportation costs and on-site storage area requirements. Sessil is compressed and strapped into bundles at the factory. The bundles are then unloaded on-site and lifted into the trickling filter by crane using the factory applied straps. Installation time and costs are reduced compared to modular PVC/PP media.
- ▶ Available in various surface areas from 30 to 60 ft<sup>2</sup>/ft<sup>3</sup>

### MEDIA CHARACTERISTICS:

- ▶ The Sessil system consists of high density polyethylene strips factory-attached to wood-en support boards installed atop a bio-tower.
- ▶ Each "ironwood" board (supplied with the Sessil) measures 1<sup>5</sup>/<sub>8</sub>" x 3<sup>1</sup>/<sub>8</sub>" x 7' 4" long and each Sessil strip is 1<sup>1</sup>/<sub>8</sub>" wide. Both are resistant to rot, fungi, bacteria, acids and alkalines commonly found in wastewater.
- ▶ Sessil trickling filter media is designed to allow for uninhibited airflow to the media and microorganisms and is ideal for bed depths from 6 to 30 feet.

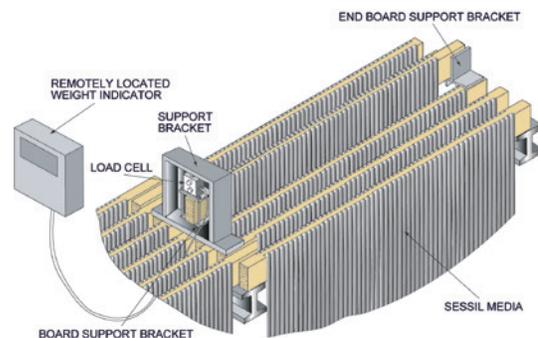


## Sessil Weighing Systems

Sessil Weighing Systems are available to monitor the operating weight for optimizing performance.

This unique design feature of the Sessil system gives the operator the ability to weigh a specific volume of media. This allows operators to control the thickness of the biofilm and adjust the speed of the rotary distributor accordingly. The weighing system can also alert operators to sudden weight changes, thereby avoid upsets and operational problems.

*Shown here is a single board weighing system. (Systems designed to weigh up to 14 boards at a time are also available.)*



**Contact us today to review your project application and find out how we can be of service to you.**

**info@raschig-usa.com | Raschig-USA.com**