

AQUACELL™ 466

BIOFILM CARRIER

AquaCELL™ 466 biofilm carriers move freely within an aerated or mechanically mixed wastewater treatment process and provide a high specific surface area for biofilm growth. As the carrier elements migrate throughout the water column, wastewater passes through the protected internal cells allowing contact between organic/inorganic waste and the fixed biofilm thus providing treatment.

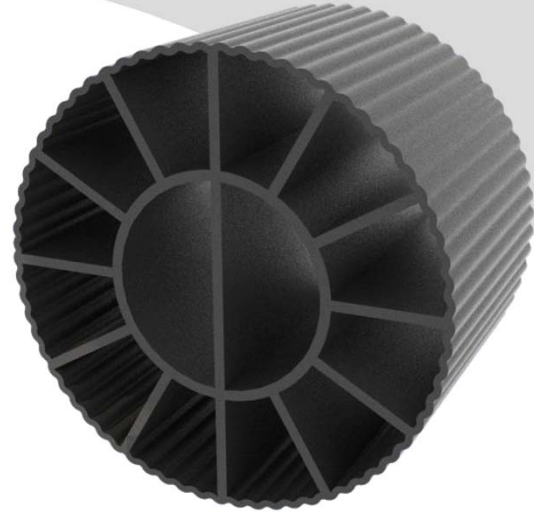
FEATURES

- High-Density Biofilm Growth
- Large Surface Area to Volume Ratio
- Robust Structural Integrity
- Optimal Specific Gravity
- UV Inhibitor Capability

BENEFITS

- Excellent Hydrodynamics and Mass Transfer Efficiency
- Dense Fixed-Film Population of Resilient and Adaptive Microorganisms
- Long Life Cycle with Resistance to Corrosion
- Low Mixing Energy Requirements
- Easy to Install
- Cost Effective Treatment Option for New Build and Retrofit Applications

AQUAPOINT
Advanced Wastewater Treatment Systems & Services



SPECIFICATIONS

Diameter	22mm	7/8 inches
Length	16 mm	5/8 inches
Weight	159 kg/m³	9.8 lbs/ft³
Protected Surface Area	466 m²/m³	141 ft²/ft³
Specific Gravity	0.94 to 0.96	
Void Space	> 75%	
Material	High-Density Polyethylene (HDPE)	

PACKAGING

Packaging	Polypropylene fabric bags with top opening, four top mounted lifting straps (located on corners) and bottom draw string chute with fasteners
Package Size & Weight	Each AquaCELL™ 466 media bag contains 1 m ³ (35.3 ft ³) and weighs approximately 350 lbs (159 kg)
Shipping & Offloading	Bags are stacked two high on standard 4x4 ft pallets. Media is shipped on enclosed or flat bed trailers. Forklift or large lifting machine required for offloading.

MATERIALS OF CONSTRUCTION

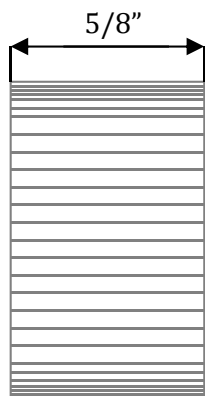
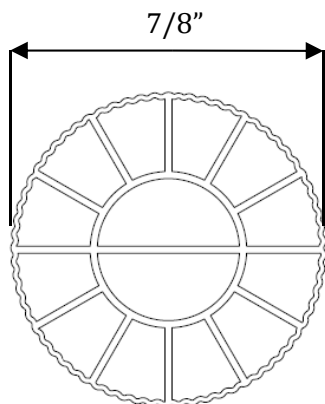
AquaPoint's AquaCELL™466 Biofilm Carriers are manufactured from virgin high-density polyethylene (HDPE) and are designed for long life operation with resistance to damage from handling, pH fluctuation, corrosion and a wide temperature range. HDPE is a cost effective, durable non-toxic material which makes it ideal for wastewater treatment applications. UV inhibitors may be compounded with the material during production to provide protection from UV degradation.

CHARACTERISTICS

AquaPoint Biofilm Carriers are designed for the most productive surface area per unit volume by maintaining large internal cells for efficient mass transfer of substrate, oxygen and nutrients. The cell size is designed to allow for adequate scouring and to limit potential for plugging.

Each carrier has a geometric configuration as depicted. The Inner and outer cylinders are connected by twelve radial vanes, two of which protrude into the center cylinder dividing it equally in half.

Guidelines for handling and installing AquaPoint Biofilm Carriers are available from AquaPoint and must be followed by the contractor and operator to prevent damage during installation and maintenance.



APPLICATIONS

- Single Pass Moving Bed Biofilm Reactors (MBBRs)
- Integrated Fixed-Film Activated Sludge (IFAS)
- Roughing Reactors
- Multi-Staged Treatment for Enhanced Bio-Kinetics
- BOD / COD / TOC Reduction
- Ammonia Removal / Nitrification
- Denitrification
- Modified Ludzack Ettinger (MLE) Arrangements
- Enhanced Nutrient Removal (ENR) Arrangements

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