

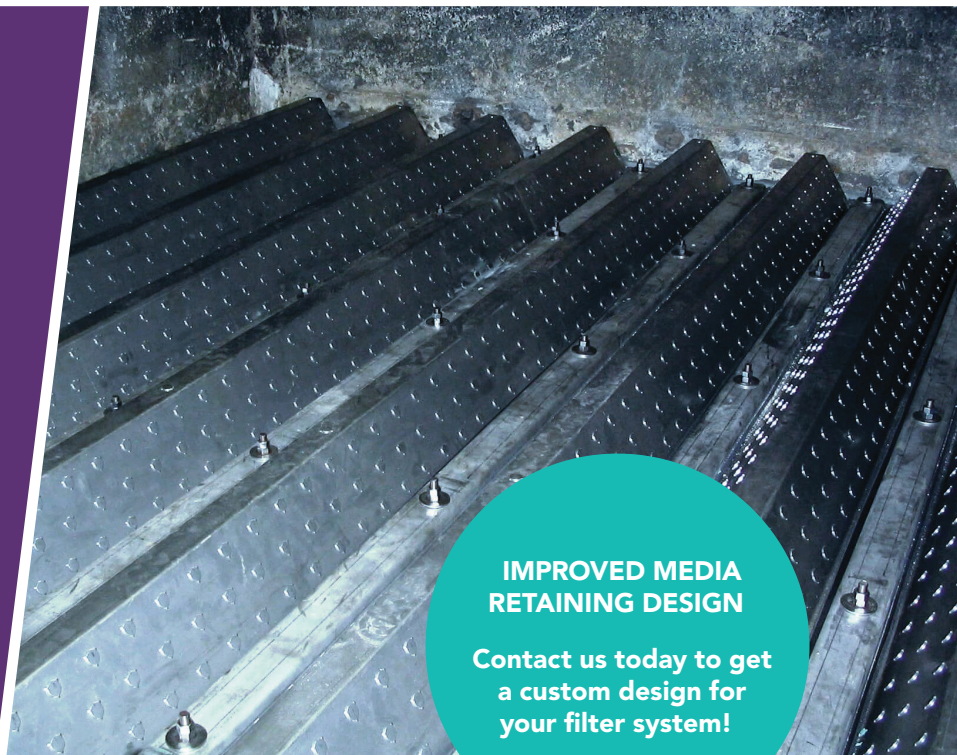


# OVIVO FILTER UNDERDRAINS PRODUCT PROFILE

Media retaining underdrain eliminates support gravel.

The 0.25mm wide punched openings allow filter media to sit directly on the underdrain and air scour laterals.

Low profile design, 6 to 8 inch vertical height, and no support gravel allows deeper media stacks than previously considered with other underdrain designs.



**IMPROVED MEDIA  
RETAINING DESIGN**

**Contact us today to get  
a custom design for  
your filter system!**

## BENEFITS & CAPABILITIES

Uniform introduction of air and water through separate conduits provides superior simultaneous air/water backwash.

Simultaneous air/water cleaning of the filter is done over a short time period with low waterwash/ air rates resulting in reduced volume of wash water usage.

Separate uniform distribution of air and water provides the vigorous agitation required for effective media cleaning. Most other systems introduce air and water through the same orifices creating a surging action and non-uniform distribution of air and water resulting in irregular cleaning of the filter media.

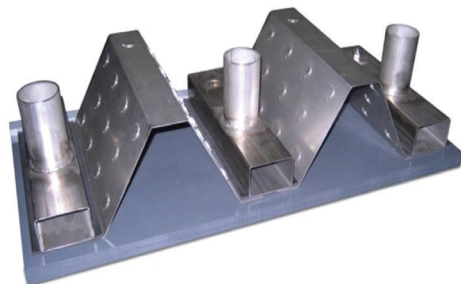
Gauge stainless steel design is strong and permanent. 16 gauge stainless steel folded plate underdrain and air scour laterals meet the most stringent structural requirements. All stainless steel construction is corrosion resistant and maintenance free.

Easy to install, no critical construction tolerances. Folded plate underdrain air scour lateral system is simple to install requiring fewer installation man hours than any other system.

## UNDERDRAIN RETROFIT

Suited for new designs or retrofits in existing filters. With fabricated underdrain, the flexibility exists to tailor the headloss to meet existing hydraulic conditions. Low profile design allows installation in the shallowest filters.

Conventional alternating air/water backwash is also an available method of cleaning the filter media.



**FOR NEW INSTALLATION OR  
RETROFITS, IMPROVE YOUR  
FILTER WATER QUALITY  
WITH DEEPER MEDIA  
DEPTHS BY SELECTING THE  
MANUFACTURER WITH THE  
MOST EXPERIENCE IN FILTER  
UNDERDRAIN/AIR SCOUR  
SYSTEMS ON THE MARKET**



## SPECIFICATIONS

The filter underdrains are stainless steel folded plate type manufactured by Ovivo. The underdrain plates have punched openings that have been placed by Ovivo to provide optimum headloss characteristics for flow distribution during the filter and backwash cycles.

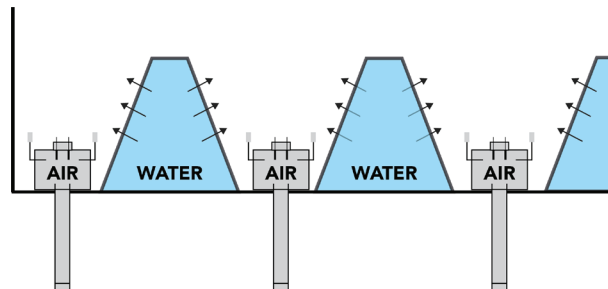
### MATERIALS AND CONSTRUCTION

The filter underdrain plates are cold formed into a folded cross section from AISI Type 304\* stainless steel sheets. The resulting cross section will provide the required stiffness for support and a low headloss lateral flow channel.

### ANCHORAGE

The folded plates are clamped and sealed to the concrete structure by means of clamping tubes overlapping the edge flanges of adjacent plates. The clamp tubes are secured to the floor with a series of Type 304\* stainless steel anchors and epoxy capsules located at approximately 30" centers. The tubes are fabricated from AISI Type 304\* stainless steel.

*\*Ovivo can also provide AISI Type 316 stainless steel, if required.*



SEPARATE AIR/WATER CONDUITS



AIR SCOUR PRIOR TO WATERWASH

## OUR EXPERIENCE IS YOUR ASSURANCE OF QUALITY

Ovivo developed the original folded plate underdrain with air scour in 1980. The fine opening design incorporates the same design principles of above the underdrain air scour with separate conduits and premium materials that has provided 30 years of successful installations.

This new design follows years of proven performance of the folded plate underdrains providing uniform distribution in low headloss gravity backwash systems and filter retrofits with pumped backwash systems.



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## Contact us today!

Our experts can provide a design for your filter system and tell you about other products we offer for municipal water treatment.



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