

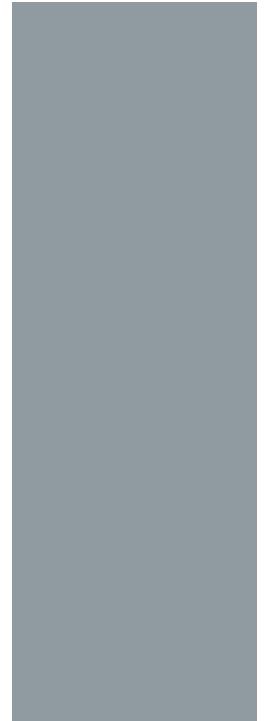


# Corrosion Resistant ESSD<sup>®</sup> Filter Washtroughs and Clarifier Launder Systems

Water Technologies

**SIEMENS**





Washtroughs and baffles for MULTIWASH™ filter designs.

## ESSD® Troughs: Longer Life, Less Maintenance

### ESSD® systems deliver performance of stainless steel at the cost of fiberglass

Washtroughs and launder systems must withstand some extremely corrosive conditions. The conventional response was to build them of fiberglass-reinforced plastic (FRP) which solved the corrosion problem but presented other problems related to the limited strength of FRP. Stainless steel, because of its high cost when used in conventional designs, is not considered a viable alternative. However, with some innovation engineering by Siemens Water Technologies it is not only viable, it is the best, most cost-effective choice for washtroughs and launder systems.

Our Engineered Stainless Steel Design (ESSD®) troughs have five key features:

- Competitive cost
- High corrosion resistance
- High strength
- Pleasing appearance
- Design adaptability

These features combine to make cost-effective components that precisely fit your needs, last longer with less maintenance and improve your system's appearance.



*Launder system for rectangular clarifier.*

## A Wide Range Of Applications

### ESSD® components meet AISI specifications

ESSD® washtroughs and launders are designed to accommodate all gravity, buoyant and lateral loads in accordance with AISI Specifications. They are also designed for maximum bending stress of 11,400 psi and shear stress of 14,000 psi. The components are custom designed to limit maximum deflections to that suitable for the given application.

### Corrosion resistant and aesthetically pleasing

ESSD® troughs are constructed entirely out of stainless steel and are especially applicable as washtroughs for concrete gravity filters. When used in conjunction with stainless steel surface washer piping and supports, a very pleasing appearance is achieved. The same effect is achieved with ESSD® washtroughs are used with stainless steel baffle systems for the MULTIWASH® Filtration Process design, which features sustained simultaneous air and water backwashing. The ESSD® design is being used increasingly for radial launder systems in circular clarifiers such as the CONTRAFLO® solids contact clarifier, as well as for launders in rectangular clarifiers. Eliminate your labor intensive launder maintenance by replacing yours with corrosion resistant durable stainless steel.

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