

ROMAG Screens ROMAG

Combined Sewer Overflow Screens
RSW & RSW-K

Combined Sanitary Sewer and Stormwater Screens meet EPA standards and protect receiving waters.

ROMAG introduced their CSO screens in the mid 1990's as the first screens specifically designed for CSO management. Over 25 years of experience has enabled ROMAG to continuously improve the design and operation of their screens to meet new and challenging applications. To date over 1800 screens have been sold worldwide as overflow events become more frequent and threaten wildlife, beaches, rivers and streams.

The RSW and RSW-K deflection screens from ROMAG are designed to keep debris in the wastewater channel and out of receiving waters during a stormwater event. Diverting these solids to the wastewater plant where they can be removed by headworks' screens and properly processed for disposal follows recommended EPA guidelines.

Excerpted from EPA Publication 832-F-99-040, Dated September 1999

"In response to the need for solids and floatables control during storm events, proprietary screen products, such as the ROMAG™ screen (Figure 2), have been designed for wet weather applications. The ROMAG™ screen partitions the flow, sending screened flow to the CSO discharge point, while keeping solids and floatables in the flow directed towards the sanitary sewer."



ROMAG RSW CSO Screen

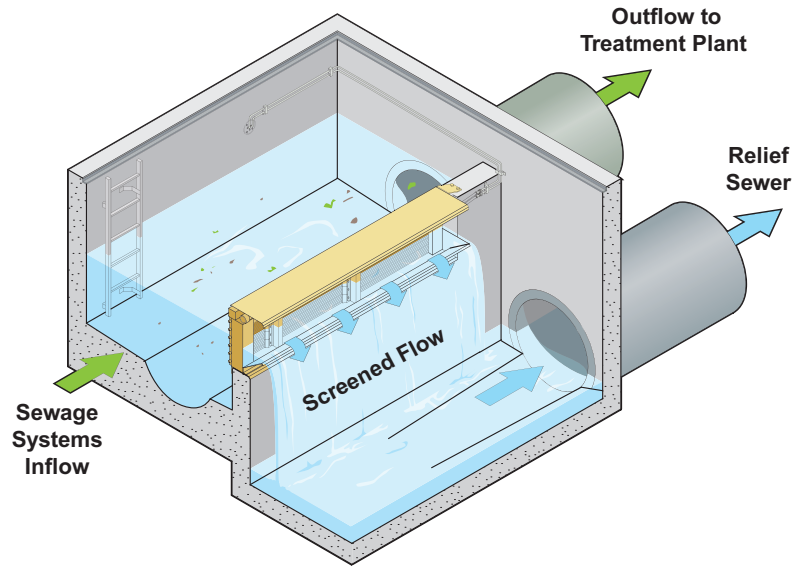
The ROMAG CSO-Screen Has The Following Typical Features:

- High operational reliability
- Automatic mechanical cleaning
- Corrosion-resistant design
- Robust construction
- Low-maintenance requirement
- Narrow bar spaces (4mm)
- Controlled handling of the screened material
- Bar screen stays clean even after the event.
- Needs no manual cleaning.

What is the design of the RSW screen?

A vertically oriented frame supports bar screen modules with 4 mm openings. The modules are aligned horizontal to the channel and flow. At the mid-point of the screen is a fixed weir to control velocity and start the overflow. The variable length and modular design allows for custom configuration with single screen flows up to 100 MGD.

A cleaning carriage with specially designed combs is located on the rear side of the screen. The carriage cleans the captured debris from the bar screen modules and moves it to the end of the screen where it is discharged into the outflow to the plant. The cleaning function is controlled by level sensors.



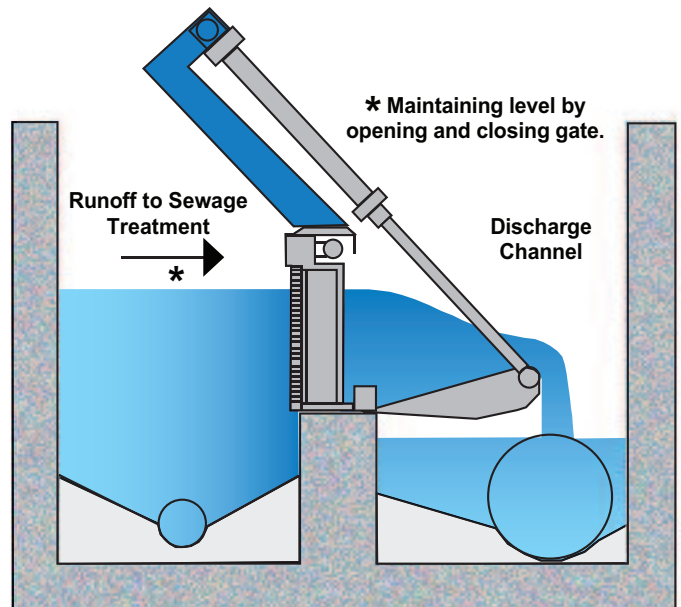
ROMAG CSO Vertical Screen RSW

What are the design features of the RSW-K screen?

The "K" design incorporates a moveable weir gate versus a fixed weir. This weir gate remains closed until the storm water level rises to the top of the screen (maximum screen capacity). The weir gate will open and close, only bypassing flow to maintain this upstream level. This can minimize or eliminate some CSO events by maximizing use of the collection system for storage.



Installation of an RSW-K Weir Gate CSO screen



RSW-K With Regulated Gate



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