

ROMAG™ CSO SCREEN

Dynamic Combined Sewer Overflow Screens



WESTECH®

Reducing Contaminants Released During CSOs

Communities with combined sewers that experience excessive rain understand the challenges associated with overflow events. These overflow events release pollutants that create aesthetic problems, threaten wildlife, and cause beach closures.

WesTech works with collection and retention facilities to reduce contaminants released during CSO events with the ROMAG™ CSO Screen.



- **Combined Sewer Overflow Screens**
- **Prevent Receiving Water Contamination**
- **Treat Flows from 5 to 130 MGD per Screen**



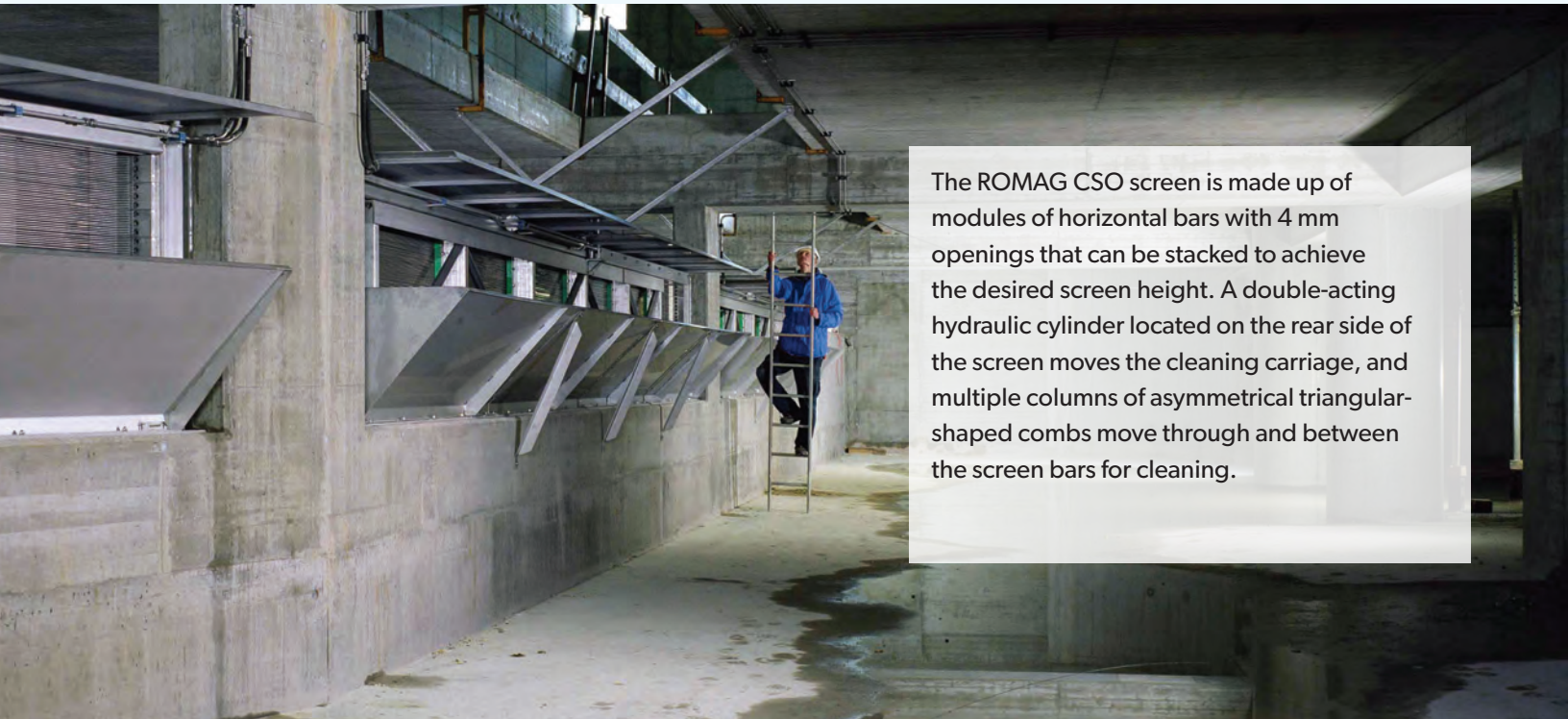
High Performance ROMAG RSW Screen Vertical mount with stationary discharge weir

The ROMAG RSW CSO Screen, fitted between the discharge culvert and the relief sewer, reliably retains all visible solids during peak events.

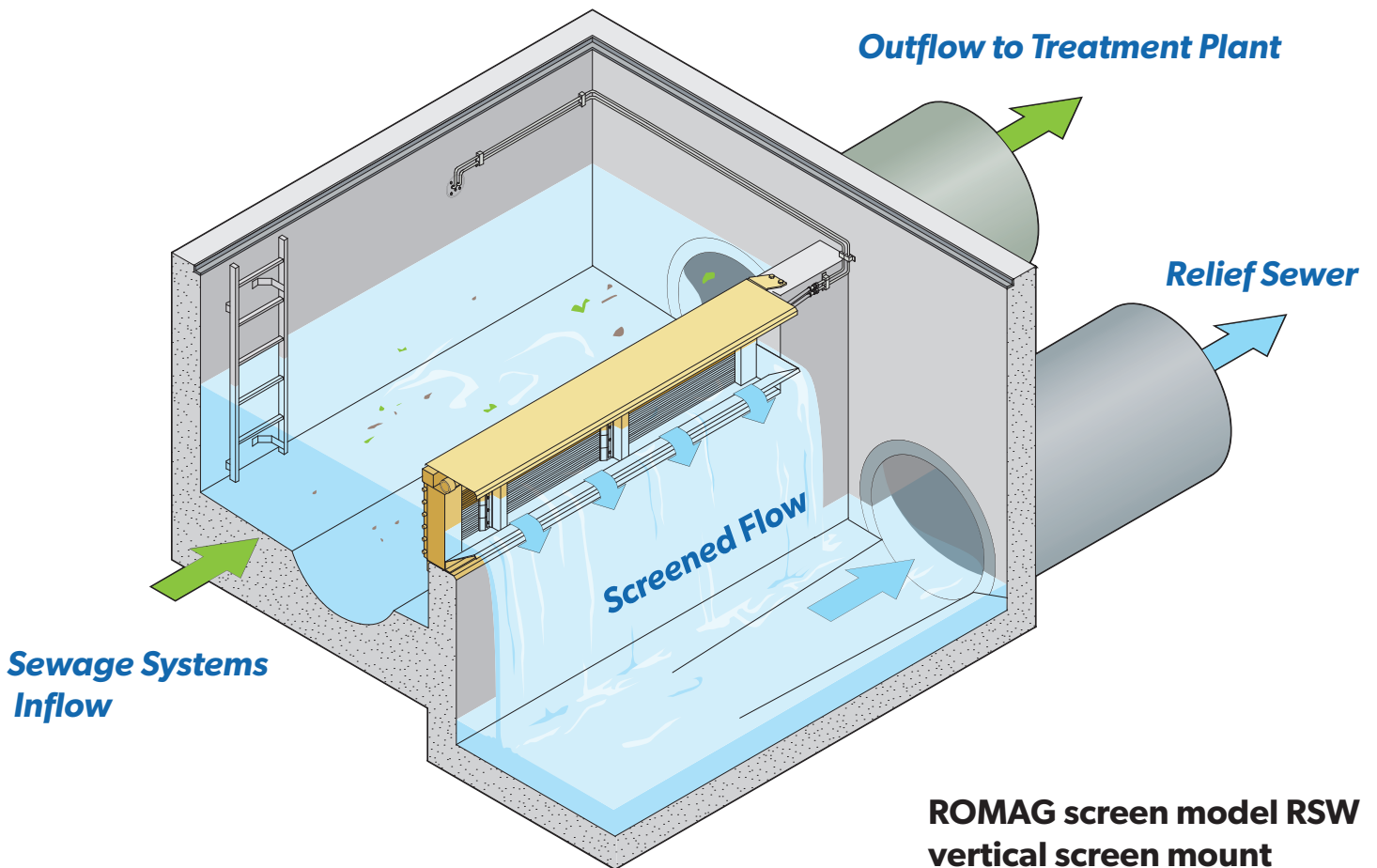
ROMAG CSO screens are a modular design. All types consist largely of elements which can be put together to obtain the most suitable screen for each particular application.

- **Durable stainless steel frame and screening bars**
- **Simple structure for installation**
- **Low maintenance with minimal cleaning**
- **Low head loss**
- **Controlled velocity through discharge weir**
- **Integral emergency overflow**
- **Optimum orientation for inspection of both sides of screen**





The ROMAG RSW screen partitions the flow and sends screened flow to the CSO discharge point while deflecting solids and floatables into the sanitary sewer.



Permanent Screen Cleaning Action

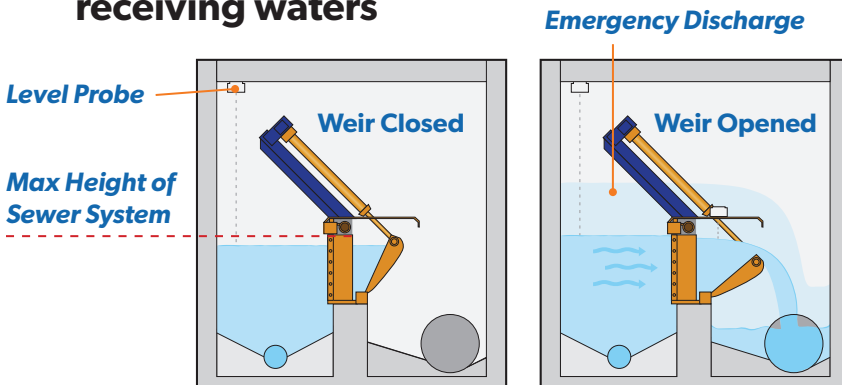
The material caught against the bars is transported towards the end section by special wedge-shaped cleaning combs. The water flow assists this movement. During return travel, the “wedge end” of the combs slide beneath the caught material. The travel lengths are such that each cleaning comb transfers the captured material to the next comb. Screened material is transported to the end of the screen and is then discharged with the outflowing effluent to the sewage treatment plant. The screen cleaning is switched on and off as a function of the liquid level.



ROMAG RSW – K Screen Vertical Mount with “Bending” Weir

The RSW-K combines all the features of the model RSW screen with a controlled discharge weir (bending weir). The “bending” weir minimizes the discharge of CSO events.

- **Maximize collection system storage**
- **Reduces the size of storm overflow tanks**
- **Reduces volume or frequency of CSO release**
- **Prevents unnecessary contamination of receiving waters**



In the normal position, the weir is closed with no wastewater flow into the relief sewer. If the water level at the inlet end reaches a predetermined height, the weir starts to open.

The level probe controls the optimum position of the weir. This maximizes the storage capacity of the collection system and achieves minimum discharge into the relief sewer.

Contact WesTech to learn more on how the ROMAG RSW and RSW-K can optimize your collection and retention facilities.



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