

Screen gross solids and floatables at CSO sites with infrequent overflows

Though overflows may be infrequent, when they occur they are still damaging to the environment. The Hydro-Static® Screen offers an economically sustainable screen for combined sewer overflow sites with infrequent overflows, but at which environmental protection is still a concern.



Applications

- CSO sites with infrequent spills.
- Floatables control within collection systems.
- Retrofits or new CSO screening facilities.
- Storm tank and pumping station overflows.

Performance

- Recommended design loading range of 50-100 l/s/m² (nominal value: 75 l/s/m²).
- Headloss ranges from 40 mm at 50 l/s/m² to 100 mm at 100 l/s/m².
- Screen weight of standard panel (1.215 x 0.641 m) is 20 kg (25.64 kg/m² of plan area).

Benefits

Get economical, effective CSO screening

The Hydro-Static® Screen provides effective gross solids and floatables capture and works with small flows and small budgets. Mesh screen panels are coated in a non-stick polymer and corrugated to increase flow-through capacity.

Minimise maintenance requirements

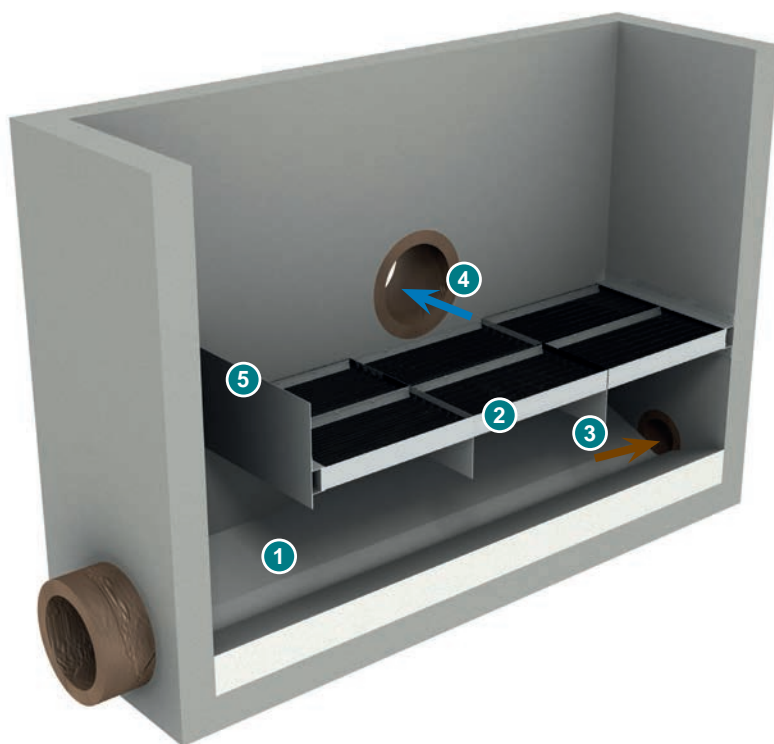
The Hydro-Static® Screen has no moving parts and requires no power to operate. Patented flow-modifying components provide partial cleansing of the screen, and a polymer-coated mesh reduces the risk of blinding.

Install quickly and easily

Components can be pre-installed in a precast concrete chamber to enable swift installation on site.

Product Information

- No moving parts or power requirement.
- High screen open area.
- Small footprint.
- Corrugated mesh screen panels to increase flow-through capacity.
- Non-stick polymer coated mesh screen panels.
- Patented flow modifying components provide partial cleansing in the Up Flow configuration reducing maintenance costs.



How it works

1. During dry weather conditions the flow to the treatment works will pass underneath the screens in the dry weather flow channel.
2. In a storm event the inflow rate to the chamber will exceed the outflow rate causing water levels to rise within the chamber and spill through the screens.
3. The Hydro-Static® Screen is mounted over the dry weather flow channel so that the flow passes up and through the screen during a storm event. Solids and floatables are trapped below the screen and returned to the sanitary continuation flow (brown arrow).
4. Screened effluent is discharged to a receiving waterway (blue arrow).
5. An emergency overflow weir is incorporated into the screen should the peak design flow be exceeded.

Make it Smart:

Add Hydro-Logic® Event Duration Monitoring, telemetry and alerts to help you make better water decisions.

Learn more

To learn more about how Hydro-Static® Screen can help you to make better water management decisions, visit hydro-int.com, search Hydro-Static Screen online or contact us:

Patent: www.hydro-int.com/patents

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