FSM Alpha Beta Escalator Screen

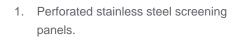
Product Summary

The FSM Alpha Beta Escalator screen is an innovative inlet screen and storm screen which allows higher hydraulic flows to pass through a fixed channel when compared to a conventional escalator screen. The FSM Alpha Beta Escalator screen can remove double the amount of screenings when compared to a conventional 6 mm bar raked screen.

Applications

- » Inlet works screening with up to 82% retention of screened material.
- » Increasing screening capacity at WwTWs without the need for extensive civils works.
- » Screening of storm flows at WwTWs to ensure no unscreened sewage is released to watercourses.

Main Features



- 2. Continuous filter belt with built-in rag lifters on every 10th panel.
- 3. 30° screen angle below water line.
- Ultra high molecular polyethylene (UHMP) rails for sealing the sides of the filter panels.

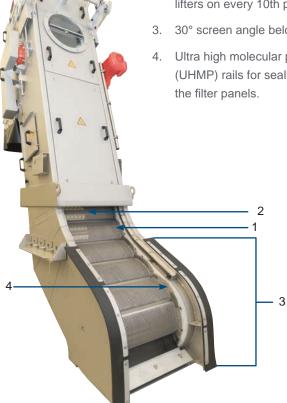


Fig.1 The FSM Alpha Beta Escalator Screen

Technical information

- » 30° angled screen section below water provides nearly double the screening surface in the same envelope area as a standard escalator screen.
- » The FSM Alpha Beta Escalator screen can be channel mounted or in a stainless steel tank as part of a Design for Manufacture Assembly (DfMA) package.
- » 82% screening capture performance (independently tested at the National Screenings Efficiency Facility [NSEF]).

Benefits

Prevent screenings clogging up treatment plant

The FSM Alpha Beta screen with 6 mm perforated screen panels removes up to 82% of screenings, preventing the build-up of screenings clogging downstream process plant.

Increase throughput

The 30° angle of the screen below the water level provides nearly double the screen surface available for screening, enabling an increase in flow throughput without extensive civils.

Protect efficiency of downstream equipment

Removing more solids than conventional screens, the FSM Frankenberger Alpha Beta screen can improve the efficiency of ferric dosing plants, and also protect Membrane Bioreactor (MBR) processes, helping to reduce the amount of phosphorus that needs to be removed before discharge to a watercourse.

Preserve performance

The self-adjusting brush means that the screen can operate reliably for a long time with no loss of performance, resulting in savings on manual adjustments and operator involvement.



Water & Wastewater Solutions

→ https://www.hydro-int.com/en-gb/products/ fsm-alpha-beta-escalator-screen

Dimensions

Filter width	300 to 3,000 mm
Shaft centre distance	up to 11,000 mm (larger sizes available on request)
Filter panel hole size	2-12 mm (other sizes available on request)
Water level difference	up to 2,000 mm possible (larger differentials available on request)
Mounting angle	30° / 75°

Component materials

Frame	Stainless steel SS304 or SS316L
Filter panel	Stainless steel SS304 or SS316L
Chains	Wear resistant stainless steel bush conveyor chain
Chain wheels	Wear resistant steel or stainless steel
Chain supports	Ultra high molecular polyethylene (UHMP)
Base sealing	Brush & neoprene double sealing
Side sealing	Ultra high molecular polyethylene (UHMP)
Filter belt	Cleaning rotary brush segments constructed of PP or nylon drives
Geared motors	SEW or equivalent.

UK Wastewater Services

Hydro International's UK Wastewater Services team, M&N Electrical & Mechanical Services is a team of over 130 dedicated services professionals operating from five regional offices across the UK.

Our M&N team is country's largest provider of screen servicing and maintenance, delivering critical support to wastewater treatment plant owners and operators 24 hours a day, 365 days a year.



- » Repair & refurbishment
- » Servicing & maintenance
- » Inlet equipment hire
- » Spares provision
- » Emergency support 24/7



To find out how our M&N services team can help you keep your inlet works working at peak efficiency please call 01305 821142

MEN.



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To find out how the FSM Alpha Beta Escalator Screen can help you remove more screenings and improve your plants performance call 01305 821142 or visit:

→ https://www.hydro-int.com/en-gb/products/fsm- alpha-beta-escalator-screen