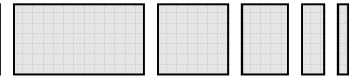


Equipment for Headworks

❖ Fine Stepping Screens FSS Series



The Fine Stepping Screen (FSS) is a robust unit made in stainless steel 304 or 316. Emphasis has been placed on reliable performance and ease of maintenance. The screening lamellas are anchored in place along the whole length of the unit ensuring rigidity and accurate spacing. However, the unique fixing arrangement allows for easy exchange of individual blades should the need arise. Standard slot widths for the screen are 3mm or 6mm with standard screen sizes. Other dimensions are tailored to fit the requirements of the plant.

Application

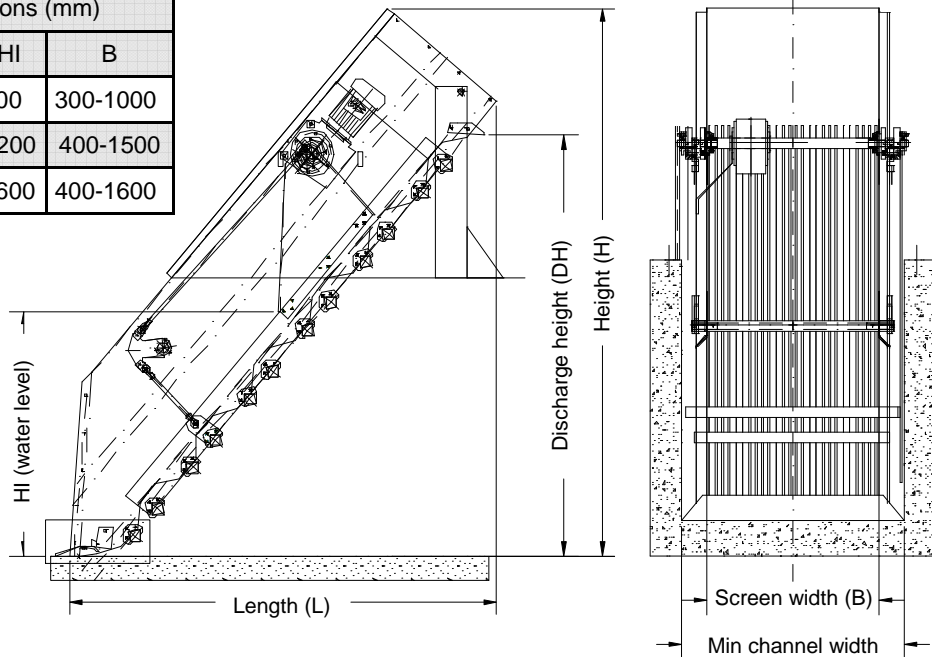
The FSS designs have been developed using the experience of hundreds of fine screen installations around the world in sewage treatment, sludge and industrial applications. This experience is vital in providing appropriate screening solutions for every situation.



| Type | Screen Dimensions (mm) | | | | |
|--------|------------------------|------|------|------|----------|
| | DH | L | H | HI | B |
| FSS 15 | 1100 | 1330 | 1650 | 900 | 300-1000 |
| FSS 23 | 1675 | 1795 | 2305 | 1200 | 400-1500 |
| FSS 30 | 2245 | 2280 | 2920 | 1600 | 400-1600 |

| Capacity (*) | | |
|--------------|------------|------|
| Type | Slot width | |
| | 3 mm | 6 mm |
| FSS 15 | 50 | 65 |
| FSS 23 | 70 | 90 |
| FSS 30 | 100 | 120 |

(*) l/s per 100 mm width



Side and front view with key dimensions for a typical FSS fine screen installation.

FSS 15: B+150
FSS 23 & 30: B+180

Dimensions and capacity

The tables above show key dimensions for the FSS screen range (as denoted by the drawing) and typical capacities in litres per second, for raw sewage flows.

The figures are per 100 mm of screen width for each of the standard sizes and slot widths. 20% clogging of the screen due to the screenings has been assumed and a head loss (difference in water level before and after the screen) of 200 mm.

Capacities will vary according to the application and operating conditions of the unit.

Advantages

The FSS is long established as a leading solution for the removal of solids and fine particles from flows and, in particular where difficult materials are involved.

The screen design consists of evenly spaced stepped lamellas which trap solids and fine particles but allow liquid to pass through. The solids build up on the lamellas rotate lifting the mat step by step up the screen to be discharged at the top. This lifting action, coupled with the retention time on the screen, produce highly dewatered screenings.

The high open area of the screen and single pass through by the liquid lead to a high capacity per unit area and low head loss.