FABRICATED ON WEDGE WIRE

Fish screens

At SIMO Screens, we make fish screens with a smooth wire face for intakes, hatcheries and raceways.

A smooth face and accurate slot keep fish out and water flowing, with less fouling than mesh.



FACE	SLOT	MATERIALS
Smooth fish-safe surface	**Set by species and life stage**	**SS 304 to Duplex**

V-PROFILED WIRE

Resists clogging. Carries the pressure. Opens more area.

The wire meets a particle at two points and the slot widens behind the face, so what passes cannot lodge.

WELDED AT EVERY JUNCTION

Holds its slot under load.

Each wire is resistance welded to every support rod, so the screen resists pressure transients up to 300 PSI and thermal cycling without stretching or tearing.

BUILT TO YOUR EQUIPMENT

Fits at the first shutdown.

Made to your drawing, sample or vessel, in the alloy the medium calls for, so it drops into the equipment already in place.

FEATURES AND BENEFITS

Gentle on fish

The flat wire face is smooth, with no knuckles, burrs or loose wire ends.

Precise, stable slot

The gap between wires is held evenly across the panel and does not stretch over time.

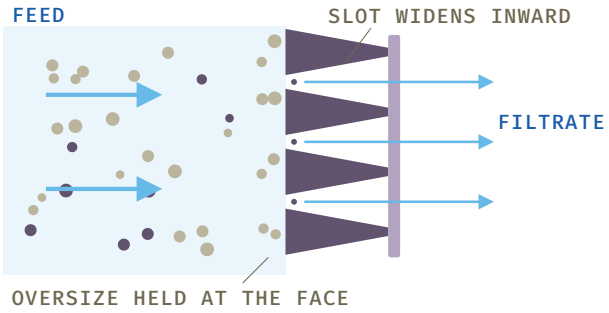
Low through-slot velocity

Continuous slots give a high open area, so the velocity through the screen stays low for a given flow.

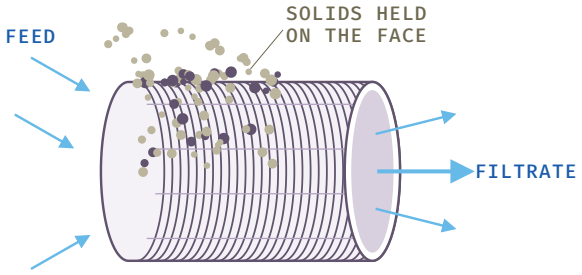
Easy cleaning

Algae and feed residue brush off the flat face, and the slot widens behind it so that particles do not lodge.

HOW THE SLOT WORKS



Oversize is held at the face; the slot widens inward, so whatever passes cannot lodge.



On a cylinder, flow passes from outside to inside and solids stay on the slot face.

SPECIFICATION

Ranges and options

Slot	Set by the smallest fish life stage to retain or exclude
Profile wire	Light profiles for fine hatchery slots, heavier profiles for intakes
Wire direction	Vertical or horizontal, to suit cleaning and fish behaviour
Form	Flat panels, cylinders, standpipe screens or curved panels
Material	SS 304, SS 316L, Duplex 2205 or Super Duplex 2507
Frame	Slide-in frames for raceway guides, bolted frames for intakes
Fittings	Handles, lifting points, seals and standpipe connections

QUALITY

ISO 9001:2015
Quality system covering design, production and inspection.

Slot control
Feeler gauges through the run; optical measurement where a gauge cannot be used.

Final inspection
Report records minimum, maximum and mean slot against tolerance.

Traceability
QR-coded tag (laser marking where required); heat numbers traced to the MTC.

OFTEN SUPPLIED WITH

- Passive intake screens
- Coanda intake screens
- Flat panels and false bottoms
- Screen cylinders

HOW WE ENGINEER YOUR SCREEN

01 Share the requirement
Drawing, sample or process data

02 Engineering review
Slot, profile, rod, material and flow

03 CFD and FEA
Pressure drop and strength, where required

04 Drawing approval
GA drawing and datasheet approved

05 Manufacture
Resistance welded and fully inspected

06 Dispatch
Mill Test Certificate with every product

FOR A QUOTATION, SEND OUR ENGINEERS

01 Application: hatchery, raceway, diversion or intake protection

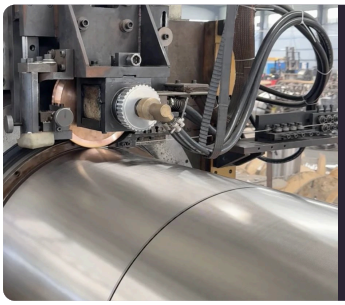
02 Species and smallest life stage to retain or exclude, or the slot required

03 Flow rate through each screen

04 Velocity limit, if your authority has set one

05 Screen size, or channel width, water depth and guide slot dimensions

06 Water type: fresh, brackish or seawater



Send your fish screens specification

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Scan to open the specification form. Our engineers will connect with you within a working day.