WEDGE WIRE PRODUCT

Water well screens

At SIMO Screens, we make continuous slot water well screens to IS 8110:2019, with the slot matched to the aquifer and gravel pack.

Sand stays in the formation and out of the pump, and the low entrance velocity slows encrustation, so the well holds its yield between rehabilitations.



STANDARD	DIAMETERS	END CONNECTIONS
IS 8110:2019	25 to 800 mm	Weld rings or threaded

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

Continuous slot

One helical slot around the full circumference gives far more open area per metre than slotted pipe.

Non-clogging profile

The flat wire face is outside and the slot widens inward.

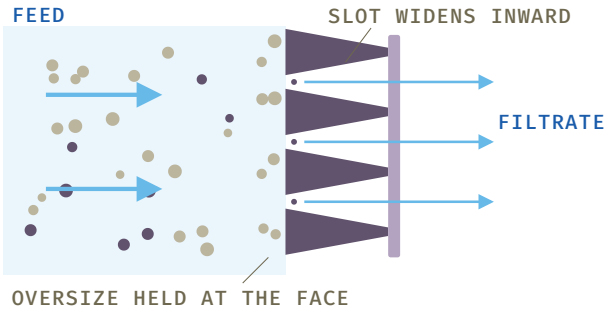
Rigid welded construction

Every wire and rod crossing is resistance welded, so the screen carries collapse and tensile loads as one rigid piece.

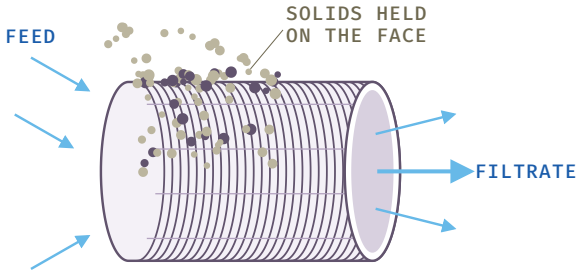
Controlled slot width

Slots are checked with feeler gauges at set-up, during the run and at the end of each screen.

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

Standard	IS 8110:2019
Slot opening	25 microns (0.025 mm) to 25 mm
Slot tolerance	Plus or minus 5% of nominal, stated on the drawing
Diameter	25 mm to 800 mm
Length per screen	Up to 6,000 mm
Profile wire	Light, standard, heavy duty or custom: 12SB, 15SB, 18SB, 28SB, 35SB, 35SSB, 42SB, 55SB, 56SB
Support rods	Q23, Q35, Q55, 35SB, F123, F203, F253, round 120, round 140
Materials	SS 304, SS 316L, Duplex 2205, Super Duplex 2507, Hastelloy, Monel
End connections	Threaded and coupled ends, weld rings, flanges, end caps, bottom plugs

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

- Screen tubes and pipes
- Passive intake screens
- Header and hub laterals

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 Well type (supply, recharge, monitoring or dewatering), depth and drilling method.

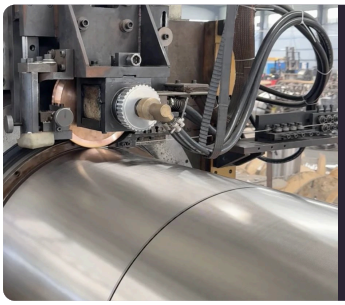
02 Borehole log with the positions of the water-bearing zones.

03 Sieve analysis of the formation, or the gravel pack grading.

04 Design yield or pumping rate.

05 Casing diameter, material and the end connection you want.

06 Total screen length and the length of each screen piece.



Send your water well screens specification

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