WEDGE WIRE PRODUCT

Flat panels and false bottoms

At SIMO Screens, we make flat panels, false bottoms and screen decks with a precise continuous slot, up to 2,400 × 4,000 mm in a single panel.

A flat, rigid deck holds its slot under the bed, the rakes and the wash, so panels are replaced on schedule, not after a failure.



SINGLE PANEL	SLOT	LARGER DECKS
Up to 2,400 × 4,000 mm	**25 microns to 25 mm**	**Joined panels**

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

Non-clogging slot

Two-point contact and a slot that widens below the face keep husk, grain and fines from lodging.

Rigid welded deck

Every wire and rod intersection is resistance welded, so the panel acts as one plate and carries grain beds and vibrating loads.

Controlled flatness

Lauter tun segments are held to a flatness of 1 to 2 mm.

Panel sizes to suit the equipment

Single panels are made up to 2,400 mm wide and 4,000 mm long.

USED IN

BREWING, MALTING AND BEVERAGES · MINING AND MINERALS · FOOD PROCESSING · CHEMICALS, FERTILISERS AND PHARMA

WHY WEDGE WIRE

Non-clogging geometry

The V-profiled wire meets an oversize particle at two points, and the slot widens inward, so what passes the face cannot lodge behind it.

One rigid structure

Resistance welds at every wire and rod intersection resist thermal cycling and pressure transients up to 300 PSI.

More open area

Continuous slots give more open area than mesh or perforated plate at the same aperture, for capacity with low pressure drop.

SPECIFICATION

Ranges and options

Slot opening	25 microns (0.025 mm) to 25 mm
Slot tolerance	Plus or minus 5% of nominal, stated on the drawing
Single panel size	Up to 2,400 mm wide and 4,000 mm long
Flatness	1 to 2 mm on lauter tun segments
Profile wire	Light, standard, heavy duty or custom: 12SB to 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
Slot orientation	Across or along the direction of flow or material travel
Construction	Resistance welded at every wire and rod intersection

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

- Support grids
- Sieve bend (DSM) screens
- Centrifuge baskets

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 Equipment type: lauter tun, mash tun, kiln, germination vessel, Nutsche filter, vibrating screen or other.

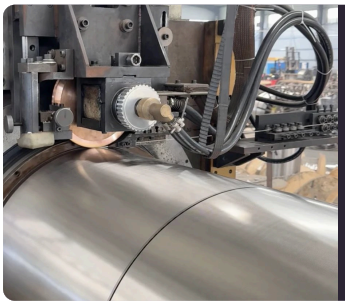
02 Vessel diameter or deck outline, with a drawing or GAD if available.

03 Manway size, if the deck is installed in a closed vessel.

04 Slot required, or the particle size to retain.

05 Bed depth or load on the deck, and the support spacing below it.

06 Fixing method: side clamps, bolted, hook strips, loose laid or welded.



Send your flat panels and false bottoms specification

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