FABRICATED ON WEDGE WIRE

Architectural panels

At SIMO Screens, we make wedge wire panels for facades, sunscreens, ceilings and balustrades, flat or rolled with the wires around the curve.

Stainless panels hold their line and finish outdoors, so facades stay as designed with little maintenance.

FORMS	CURVES	FINISH
Flat or rolled	**Wires around the curve**	**Brushed or polished**



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

Light and shadow

Parallel wires cast fine shadow lines that move through the day.

Angle-dependent privacy

The slots are open to a direct view, while at an angle the depth of the wires closes the view.

Precise surface

The flat wire face gives an even finish with no punched edges or woven texture, in a choice of pickled and passivated.

Rigid welded construction

Every wire and rod intersection is resistance welded, so panels stay flat and straight across their span.

USED IN

BUILDINGS AND DRAINAGE

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	Narrow slots for privacy and safety, wide slots for transparency
Profile wire	Fine profiles such as 12SB for a delicate line, heavy profiles such as 56SB for a bold one
Support rod	Profile, flat or round rods, set behind the face
Wire direction	Vertical, horizontal or diagonal in the frame
Form	Flat, segmented, or rolled to a radius with the wires around the curve
Panel size	Single panels up to 2,400 mm wide and 4,000 mm long
Material	SS 304 or SS 316L
Frame and fixings	Perimeter frames, brackets, clips and concealed fixings, supplied with the panels
Finish	Brushed or bead blasted; pickled and passivated or electropolished through approved agencies

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

- Flooring panels
- Pool and shower grates
- Flat panels and false bottoms

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

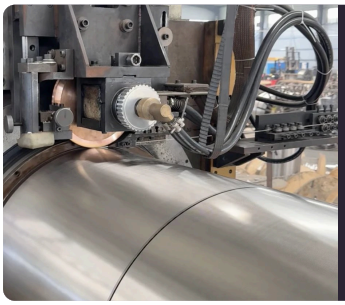
04 Drawing approval
GA drawing and datasheet approved

05 Manufacture
Resistance welded and fully inspected

06 Dispatch
Mill Test Certificate with every product

FOR A QUOTATION, SEND OUR ENGINEERS

01 Application: facade, sunscreen, ceiling, balustrade or screen
02 Elevations or drawings with panel module sizes
03 The appearance required: wire face width, slot, or a reference image
04 Wire direction and any curved areas, with the radius
05 Support points and the preferred fixing method
06 Design loads from your structural engineer



Send your architectural panels specification

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