FABRICATED ON WEDGE WIRE

Rooftop rainwater filters

At SIMO Screens, we make self-cleaning rooftop rainwater filters in complete stainless steel housings, sized by flow rate and pipe size.

The wire face sheds leaves and grit with the flow, so the filter keeps working through the monsoon with little cleaning.



HOUSING	SIZING	CLEANING
Complete stainless steel	**By flow rate and pipe size**	**Self-cleaning screen**

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

Self-cleaning screen

The flat wire face and the incline let debris slide off with the flow.

Non-clogging slot

The slot widens behind the face, so grit that enters a slot drops through rather than wedging.

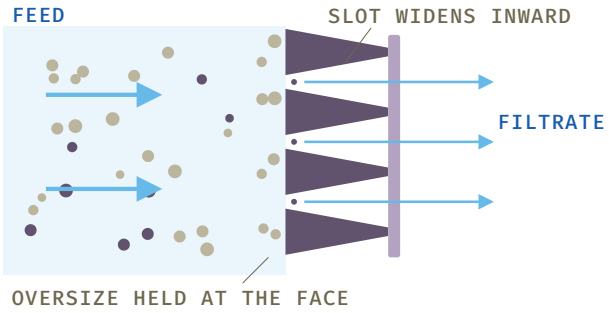
High capacity in a compact housing

Continuous slots give a high open area, so a compact element handles the full downpipe flow.

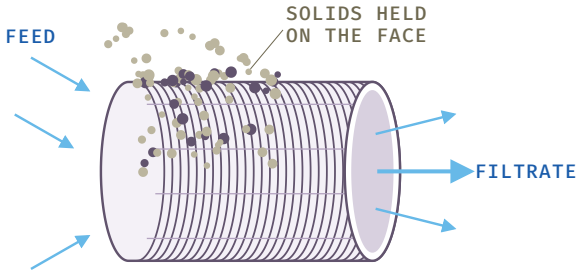
Durable stainless construction

The stainless steel rainwater filter element is rigid and resistance welded, so it does not sag.

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	Fine slots to hold back grit, coarser slots for higher flow per screen
Profile wire	Light profiles for fine slots and compact elements
Screen form	Flat inclined or curved element
Housing	Complete stainless steel housing with inlet, clean water outlet and debris outlet
Material	SS 304 or SS 316L; MS and SS 410 to client requirement
Connections	Downpipe sockets or flanges to suit the pipe size
Mounting	Inline on the downpipe, wall-mounted or in a chamber
Sizes	Made to the peak flow and pipe sizes of each installation; no standard range at present

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

- Water well screens
- Coanda intake screens
- Drainage grates

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

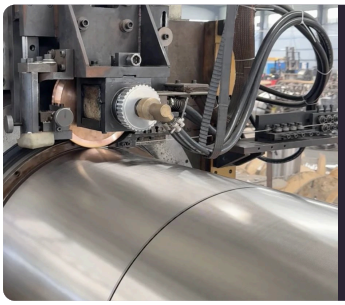
04 **Drawing approval**
GA drawing and datasheet approved

05 **Manufacture**
Resistance welded and fully inspected

06 **Dispatch**
Mill Test Certificate with every product

FOR A QUOTATION, SEND OUR ENGINEERS

01 Roof area draining to each downpipe, in square metres
02 Number and size of downpipes
03 City or design rainfall intensity
04 Where the water goes: tank, recharge pit or recharge well
05 Mounting position: inline, wall-mounted or in a chamber
06 Preferred material for the housing and screen



Send your rooftop rainwater filters specification

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