



# Industrial Screen Products, Inc.

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## Profile Wire Screens

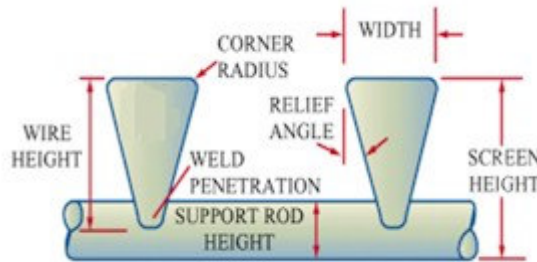
Profile Wire screens, also known as Wedgewire, V-wire, and Triwire, are custom made for your application. The features of this type of screen make it an attractive solution for separating solids from liquids, retaining media, filtering, sizing, dewatering, collecting, and distributing.

Profile Wire screen offers continuous slot openings that widen inwardly so that particles tend to pass through the screen and reduce blinding.



Profile Wire screens are originally produced as cylinders or flat panels. Both methods of manufacturing offer their own features and benefits.

Selection of the Profile Wire (size and shape) of is based on open area requirements, blinding considerations and wear life factors.



The support rod is selected after considering the application and manufacturing capabilities. Factors in the decision may include beam strength, cost, thickness, and available support rod spacing.

Profile Wire Width	Relief Angle	Typical Support Rod
63V (.063")	13 degrees	Small round or square rod
69U (.071")	7 degrees	Round or Rectangular bar
93V (.093")	13 degrees	Round or Rectangular bar
125V (.125")	13 or 5 degrees	Round or Rectangular bar

Profile Wire Screens are usually made of Type 304 stainless steel although other alloys are available. Type 316 stainless steel may be used for salt water installations. High manganese profile wire material is used for abrasive applications such as mineral processing. The all-welded stainless steel construction produces high strength and extended service life.

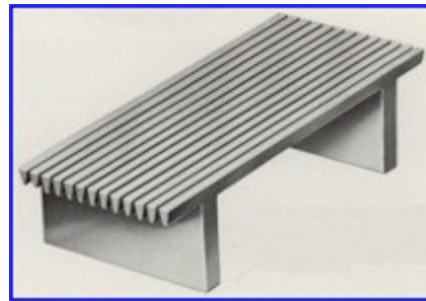
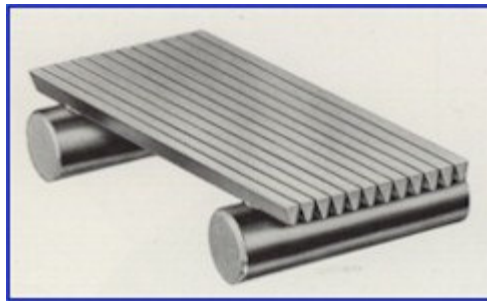


## Flat Profile Wire Screen Panels

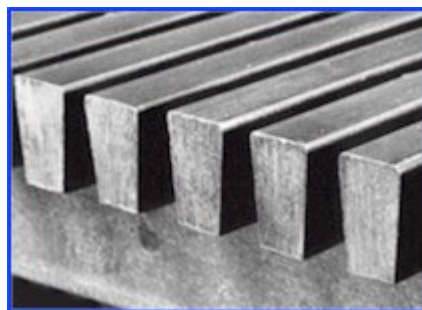
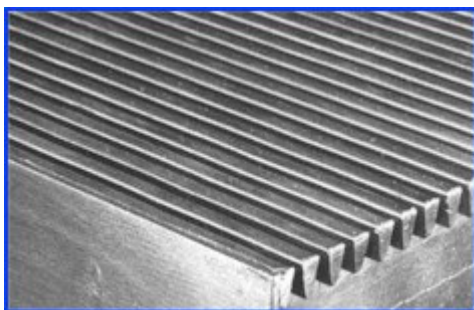
Welded Profile Wire screen panels can be constructed using rectangular support rods or round support rods.

Round Support Rod Construction	Rectangular Support Rod Construction
63V on 1/4" diameter at 1 1/4" centers	63V on .074" x 1/2" at 1" centers
69U on 5/16" diameter at 2" centers	69U on .074" x 3/4" at 1 1/2" centers
93V on 5/16" diameter at 2" centers	93V on .074" x 1" at 2" centers
125V on 3/8" diameter at 3" centers	125V on .105" x 1" at 2" centers

Flat screen panels can be designed to optimize the open area, strength, and wear life for each application.



1. Flat Screen with round support rods
2. Flat Screen with rectangular support rods
3. Screen Panel with side frame
4. Heavy duty profile wire



Screen Panels can be framed and/or reinforced to suit the application. Typical framing includes standard bar or angle welded to the sides of the panel.

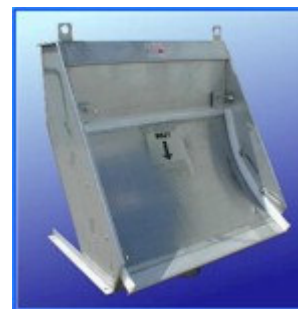


### Sieve Bend Screens

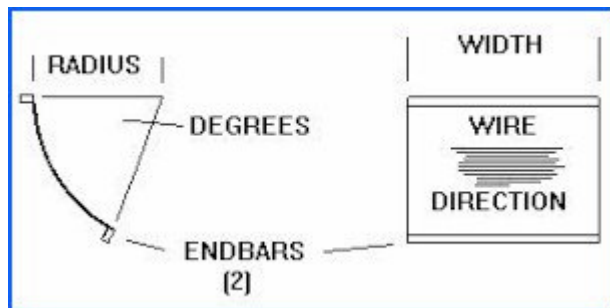
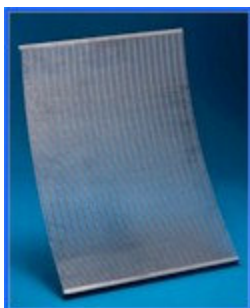
Sieve Bend Screens, also known as side hill screens, parabolic screens, run down screens, gravity screens and DSM screens, can be custom designed to separate solids from liquids in various applications including food processing, pulp and paper, waste water cleanup, surface water intakes, corn wet milling, coal preparation, and gold recovery.

Profile Wire Width	Relief Angle	Typical Support Rod
1/16" (.063")	13 degrees	Small round rod
3/32" (.093")	13 degrees	Round or Rectangular bar
1/8" (.125")	13 or 5 degrees	Round or Rectangular bar

Sieve Bends are cross-flow screens. The profile wires are slightly tilted so that the leading edge is position higher which greatly increases the dewatering capacity.



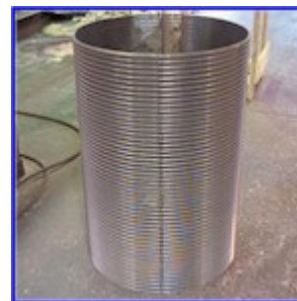
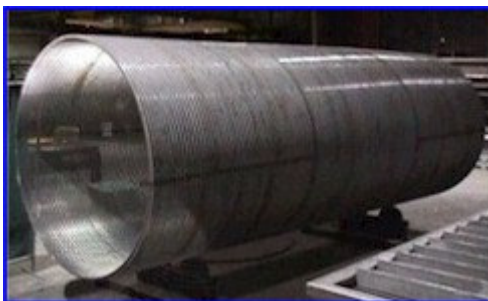
1. Sieve Bend Screener with high feed inlet
2. Sieve Bend Screener in operation
3. Sieve Bend Screener
4. Screen Bend Surface with endbars
5. Schematic of typical Sieve Bend Surface
6. Sieve Bend Screening Unit with cover



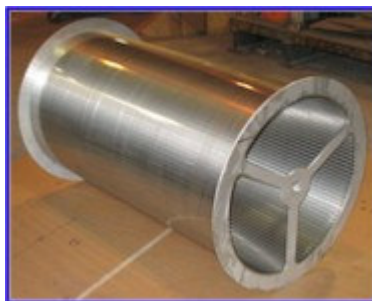


## Screen Cylinders – Rotary Screens

Profile wire screen cylinders are available for both externally-fed (flow from outside to inside) and internally feed applications. Externally-fed cylinders can be manufactured without requiring a weld seam up to about 36" OD, larger diameters must be fabricated. Internally-fed cylinders are fabricated to customer's requirements.



1. End view of external-fed cylinder
2. Internally-fed fabricated rotary screen cylinder
3. Internally-fed rotary screen cylinder
4. Reinforced externally-fed rotary screen
5. Externally-fed rotary screen with flanges
6. Internally-fed rotary screen with flights



Many Profile wire constructions are available. This table only lists a few typical profile wire / support rod combinations.

<b>Externally-fed Screen Cylinders</b>	<b>Internally-fed Screen Cylinders</b>
63V on 130Q at 1" centers	63V on 130Q at 1" centers
69U on .074" x 1" at 1" centers	69U on .074" x 3/4" at 1" centers
93V on .105" x 1" at 1" centers	93V on .105" x 1" at 1" centers



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## Custom Profile Wire Screen Products

