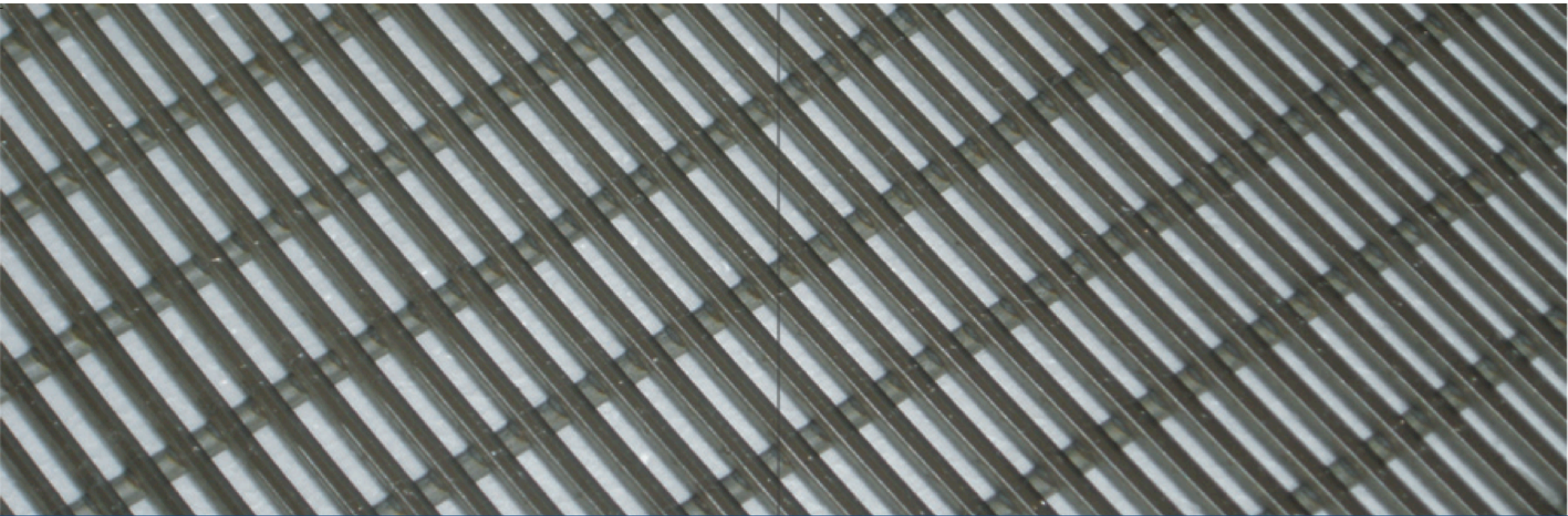


EVEREST

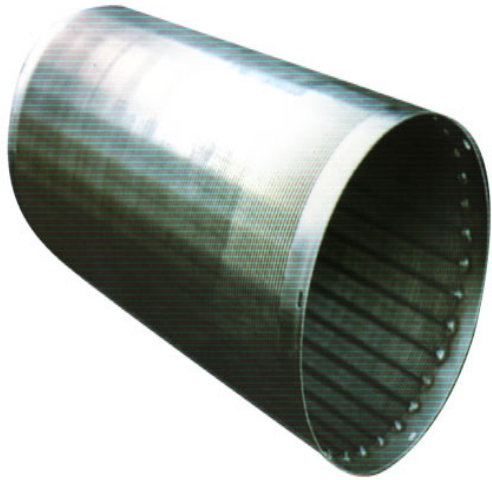
EQUIPMENTS



**WEDGEWIRE
PRODUCTS**

EVEREST EQUIPMENTS

THE BEST CHOICE IN WEDGEWIRE AND ALL AROUND THE WORLD

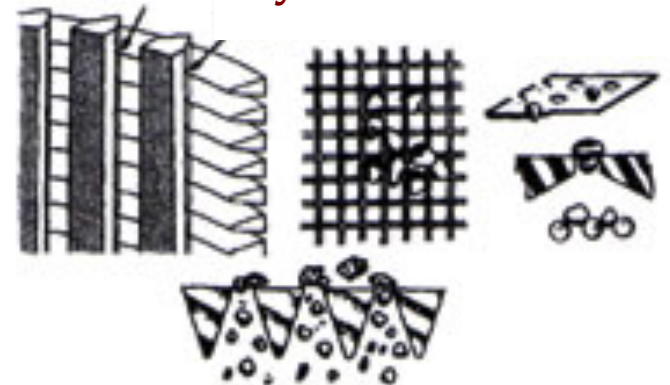


Everest Equipments Wedgewire Screens are manufactured to suit a wide range of applications. Our screen products are used extensively in chemical and petrochemical operations, water supply and treatment, as well as, pulp and paper and food processing.

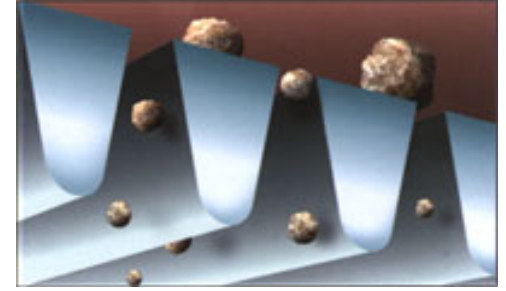
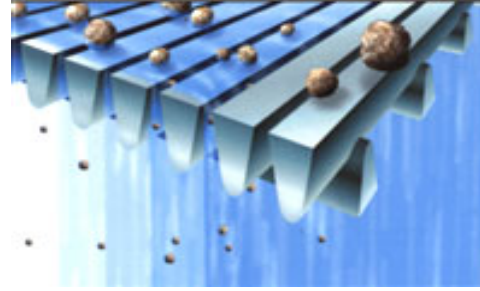
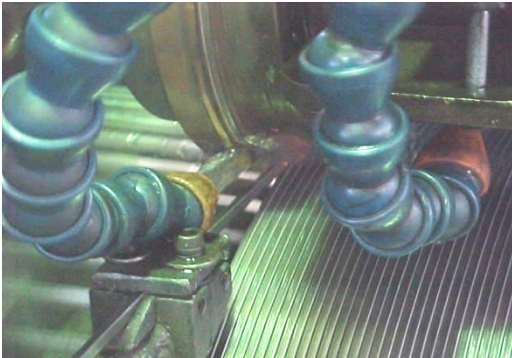
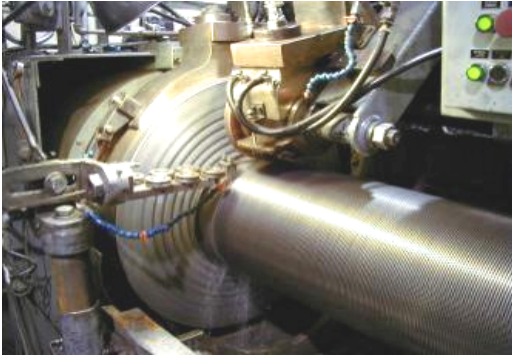
Wedgewire Screens are produced to fit your own requirements. Screens can be constructed to suit existing specifications or we can design and fabricate a prototype for any new development.

Everest Equipments Screens are designed to give maximum open area and to deliver top performance in any screening application. All internal vertical support rods are welded to the surface wire at every intersection. The vertical support rods being rigidly welded give a smooth unobstructed surface and do not impede the free flow of materials across the screen.

**Welded at
every intersection**



EVEREST EQUIPMENTS



Wedge Wire Has The Following Advantages :

■ **NON-PLUGGING** : The continuous slot formed by the V-shaped surface wires ensures a two-point contact between the particles and the slot, which minimizes clogging.

■ **HIGH-PRECISION SLOT SIZES** : Precise slot sizes are available to meet customer's requirements.

■ **SMOOTH SURFACE** : The V-shaped surface wires allow easy cleaning by mechanical scraping or back flushing.

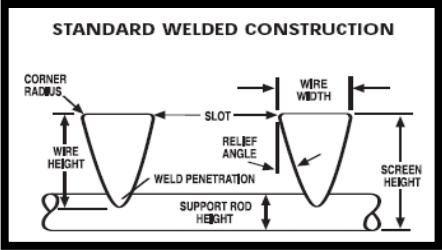
■ **LOW PRESSURE-DROP**

■ **STRONG CONSTRUCTION** : For most applications, the wedge wire screen is self-supporting, because of the welding at each intersection.

■ **VARIOUS MATERIAL CHOICE** : Stainless Steel ,Monel 400 ,Inconel 600 ,Hastelloy BC ,Carpenter 20,Incoloy 625 & 825 , Titanium, Copper Nickel Alloys.

EVEREST

EQUIPMENTS

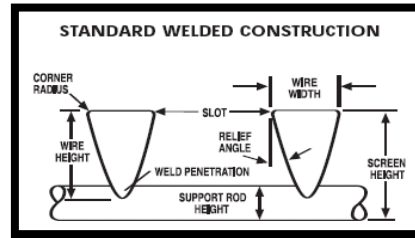


Other specifications can be customized upon request.

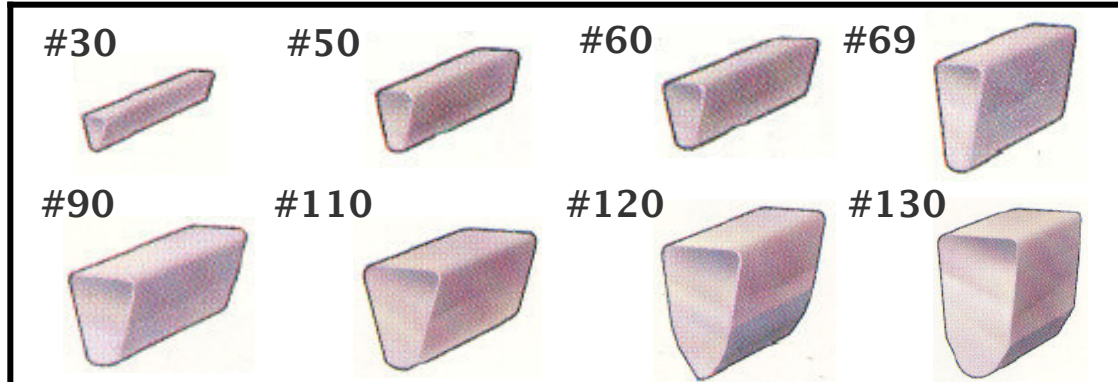
#30	#50	#60	#69	#90	#110	#120	#130
Name	Width inch	Width mm	Height inch	Height mm	Minimum Slot Size		
30	0.03	0.762	0.075	1.905	0.05 mm		
50	0.05	1.27	0.095	2.413	0.05 mm		
60	0.06	1.524	0.100	2.54	0.05 mm		
69	0.069	1.7526	0.120	3.048	0.20 mm		
90	0.090	2.286	0.130	3.302	0.10 mm		
110	0.110	2.794	0.200	5.08	0.15 mm		
120	0.120	3.048	0.240	6.096	0.25 mm		
130	0.130	3.302	0.275	6.985	0.50 mm		

EVEREST

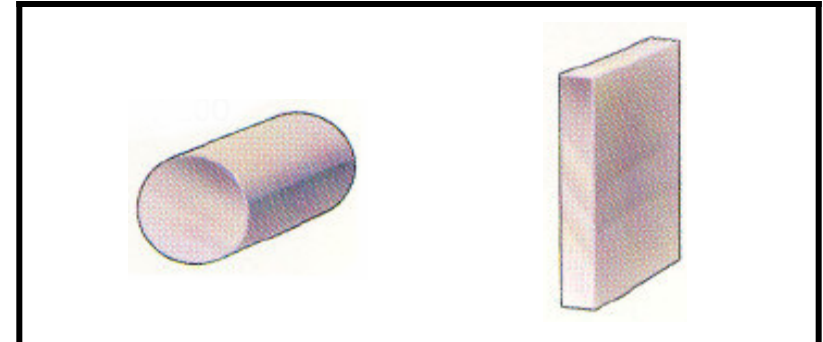
EQUIPMENTS



Other specifications can be customized upon request.



Name	Width inch	Width mm	Height inch	Height mm
30	0.03	0.762	0.075	1.905
50	0.05	1.27	0.095	2.413
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110	0.110	2.794	0.200	5.08
120	0.120	3.048	0.240	6.096
130	0.130	3.302	0.275	6.985



ROUND & STRIP SUPPORT ROD

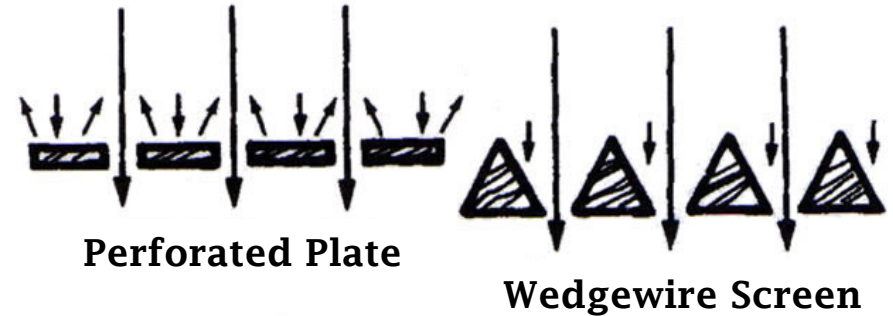
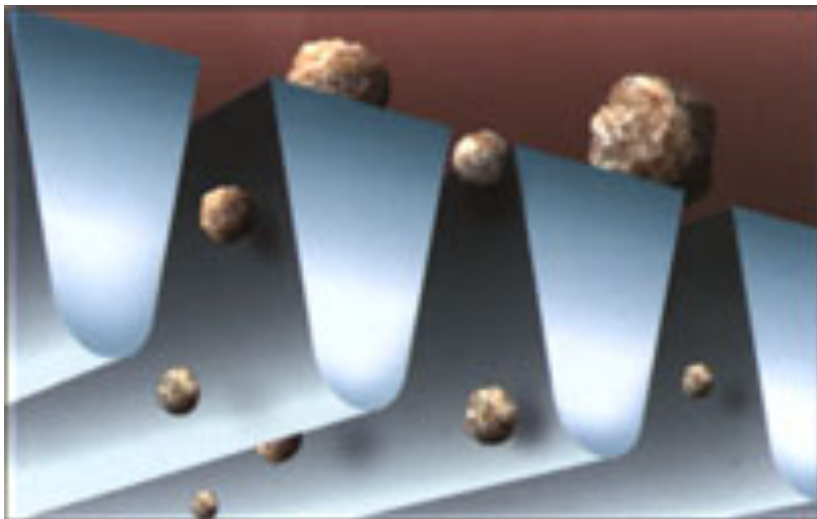
■ Round rods available in diameters ranging from 2 to 6 mm.

■ Strip rods available in widths ranging from 1.5 to 5 mm and heights ranging from 6 to 40 mm.

EVEREST EQUIPMENTS

Product Quality and Design

Everest Equipments wedgewire screens are used in virtually every enterprise requiring efficient, high strength wear resistant screens. The screens are usually custom designed to fulfill such functions as sizing, de-watering, media retention, and many other liquid-solid separation functions. Many engineering firms specify Everest Equipments wedgewire screens for projects pertaining to water waste treatment, mineral processing and petrochemical processing.



Backwashing

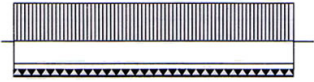
When it's necessary to clean the surface of the screen, backwashing is made more effective in the Concord Screen. This is due to the abundant open area and the wedgewire construction. Typical perforated plate (left) has a large amount of "dead space" which leads to reduced backwash efficiency.

To assure our customers of a high quality screen, every production step - from raw stock to finished product - is done under the same roof.

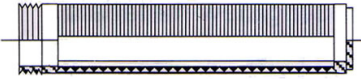
EVEREST EQUIPMENTS

FITTINGS

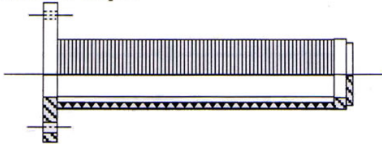
Plain square ends



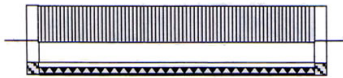
NPT nipple and end cap



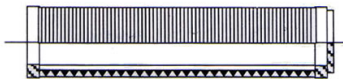
Flange and end caps



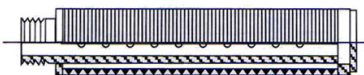
Weld rings



Weld ring and end cap



Pipe base screen with end cap



Stock fittings are suitable for use with most Everest Equipments wedgewire screens. Typical screen fittings supplied by Everest Equipments are illustrated at left. Everest Equipments Screen inventories include a wide range of sizes of pipe fittings, pipe, plate and bar stock.

Fabrication Options For Increased Strength

Everest Equipments Wedgewire Screens can customize fabrication to increase column, collapse, beam, or burst strength the following methods by :

- Change diameter.
- Change wire or rod shape.
- Change number of rods.
- Add external or internal supports (rings, pipe, support bars).
- Individual customer requirements are incorporated into the design and engineering of Concord Screen wedgewire screens to ensure superior product performance.

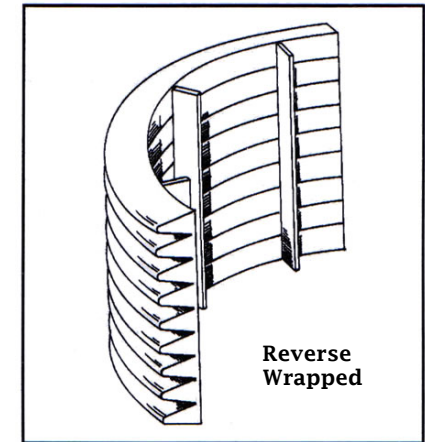
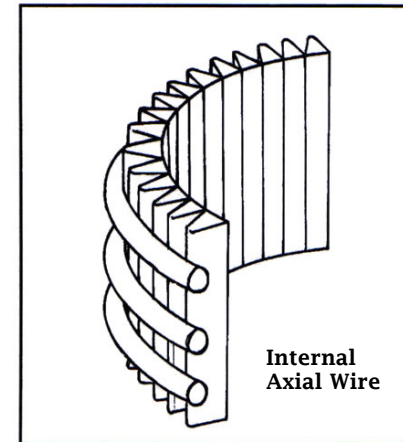
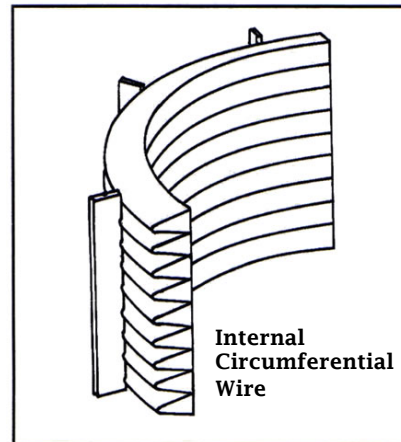
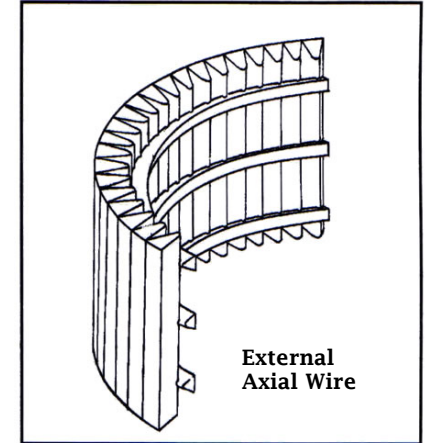
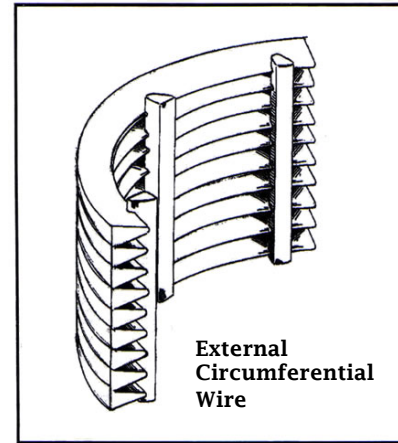
EVEREST

EQUIPMENTS

FABRICATION TO FIT

The variation of form and arrangement of elements in a Everest Equipments wedgewire screen is almost endless. Whatever the shape, whether cylindrical, flat panel, conical basket or some other shape unique to your system, Everest Equipments wedgewire screens can be made to fit. We work extensively with stainless steel, but we also have vast experience with specialty alloys. We are continually exploring and testing new materials which may prove useful for special applications.

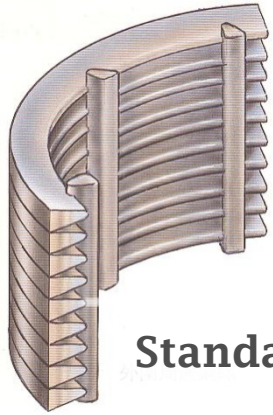
Flexibility in fabrication make Everest Equipments wedgewire screens perfect for retrofitting as well as for new installations. The illustrations below show some of the standard rod and wire configurations frequently used.



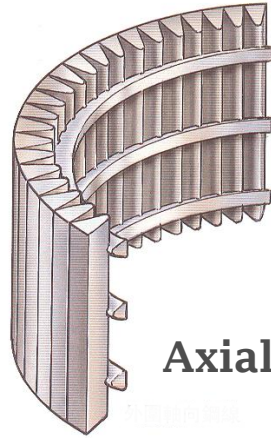
EVEREST EQUIPMENTS

CYLINDER

OUTSIDE - IN

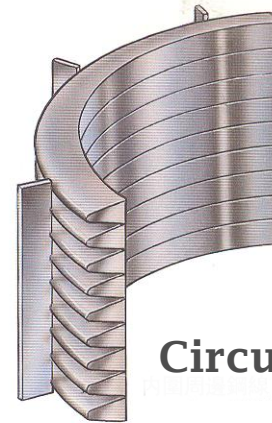


Standard

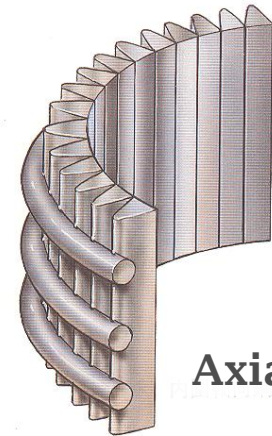


Axial Wire

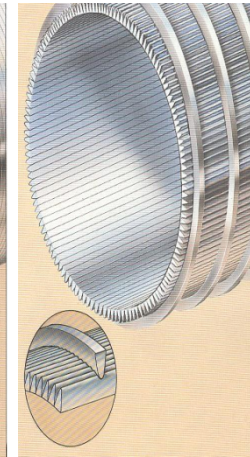
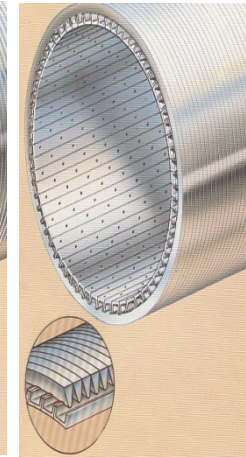
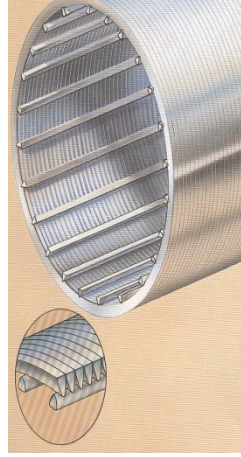
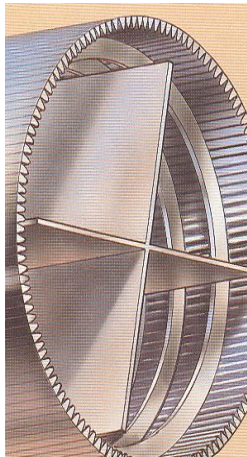
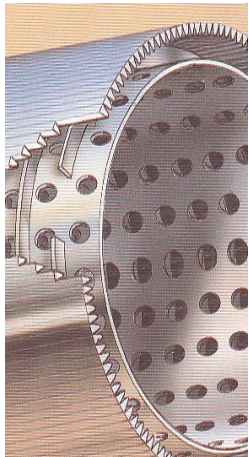
INSIDE - OUT



Circumferential



Axial Wire



OD : 19 ~ 914 mm

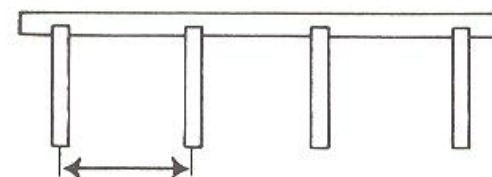
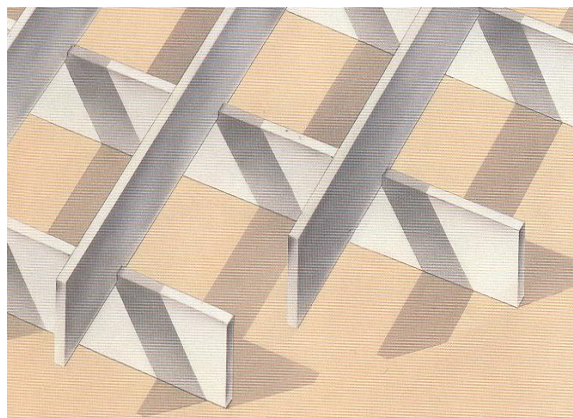
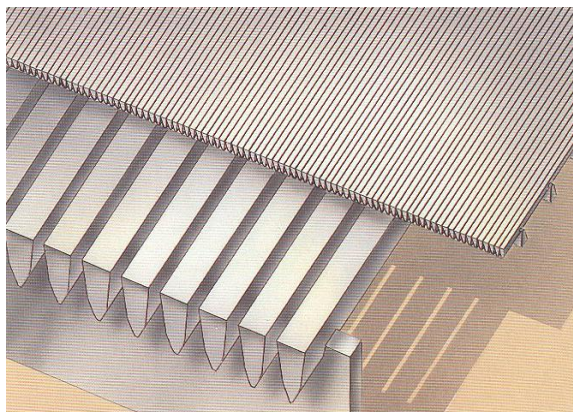
LENGTH : Max. 6 m

EVEREST EQUIPMENTS

FLAT

GENERAL USE : 鋼條長可達 1.8 米 (6 呎)，支撐桿可達 3 米 (9.8 呎)

SPECIAL PURPOSE : 鋼條長可達 2.8 米 (9.2 呎)，支撐桿可達 4 米 (13 呎)



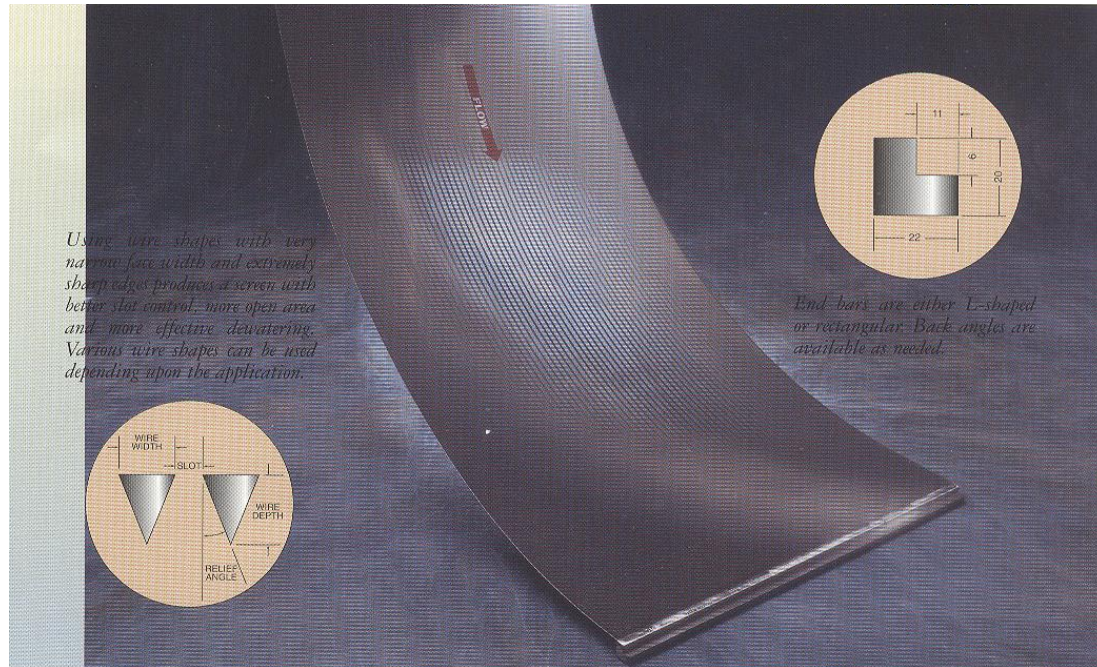
支撐桿間距

支撐桿的間距可調整以適合個別的負載條件，部份間距如下：

6 mm	(0.25 inches)
12.5 mm	(0.5 inches)
19 mm	(0.75 inches)
25 mm	(1 inches)
38 mm	(1.5 inches)
50mm	(2 inches)

EVEREST EQUIPMENTS

SIEVE BANDS



INDUSTRIAL APPLICATIONS

DEWATERING

Allows efficient removal of rinse water for recycling.

COAL MINING APPLICATIONS

DESLIMING

Removal of 1.50mm - 0.50mm fraction of the coal for fines treatment.

DRAIN AND RINSE

Used in conjunction with low head screens.

- Used for removal of liquids from a mixture of liquids and solids.
- Water passes through the screen with solids flowing over the top into a receptacle or channel.
- Most important characteristic is the scalping action due to the slope of the screen.
- Zero tilt on profile wire allows screen to be reversed. Prolongs the life of the screen.
- Profile wires can be tilted to cut into the flow more efficiently. Means the sieve bend cannot be reversed when the wire wears.

EVEREST EQUIPMENTS

EVEREST EQUIPMENTS SCREENS HAVE BECOME THE
FIRST CHOICE OF INDUSTRIES ALL OVER THE WORLD

ENGINEERING SERVICE

- 協助設計
- 協助應用
- 設計報告
- 推薦材質
- ❖ 製造圖
- 施工圖
- 製造預定表
- 提供裝置濾網及現場修護的技術指導

QUALITY CERTIFICATE

- ◆ 品質管制書
- ◆ 焊接程序規格書(WPS)
- ◆ 程序證明書(PQR)
- 焊接性能證明(WPQ)
- 染料滲透檢驗
- ◆ 檢驗報告
- 開孔率證明
- 熱處理證明
- ❖ 出廠證明
- 明確的材質證明(PMI)
- 統計管制圖

SPECIAL TREATMENT

- 鈍化
- 酸洗
- 退火或應力消除
- 電解拋光
- 鋁化
- 鍍鉻

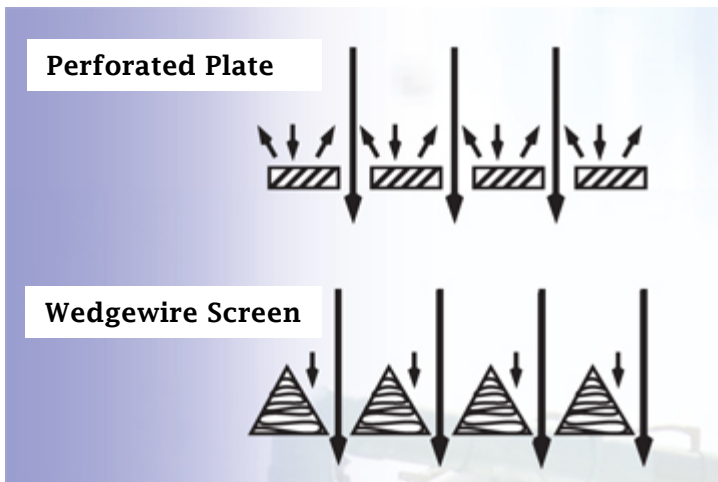
TEST SERVICE

- 腐蝕分析
- 化學分析
- 損壞報告
- 壓力測試
- 流動測試
- 冶金分析
- 物理性質實驗

EVEREST EQUIPMENTS

TREATMENT & MEDIA RETENTION

Wedge wire screen has long been considered the most effective media for use in under draining. Wedge wire has an inherent even pattern of open area that allows for accurate flow distribution. Its internal support rod structure gives it a higher collapse strength allowing it to handle the most demanding load applications. Constructed of stainless steel and many exotic alloys wedge wire is easily worked to meet both typical and unique under drain designs. Although Concord Screen supplies a range of standard wire shapes, an in-house wire forming facility allows for custom shaping if required by design.



During Regeneration. The triangular shape of the surface wire on a screen gives wedge wire an extreme advantage when flow is reversed using either air or liquid. While the media side of the screen is smooth the opposite side of a screen acts much like a nozzle. When flow is delivered into the nozzle like entrance any particulate that is embedded in the screen is easily freed. Under sized particulate is either retained in the above media or removed through more efficient back flushing process. When it's necessary to clean the surface of the screen, back washing is made more effective in the Concord Screen. This is due to the abundance of open area and wedge wire construction. Typical perforated plate has a large amount of Dead Space "which leads to reduced back wash efficiency.

EVEREST

EQUIPMENTS

DIVERSIFIED WEDGEWIRE PRODUCTS

NOZZLES AND ORIFICE PLATE ASSEMBLY

Nozzles are installed in a vessel orifice plate. Typical configuration has a stem projecting through each orifice and secured with a nut and washer. Screens are manufactured to suit customer requirements and are not restricted in size by length or diameter. Typical screens are fabricated with a blind cap on one end and washer fixed with a threaded stem on the other end.

PIPE BASED SCREEN LATERAL

Screen laterals are supplied with an internal or external distributor pipe when extra strength and/or more effective backwashing distribution is needed.

RESIN TRAPS

Resin traps are custom designed to minimize pressure loss through the screen. They are used down stream from ion exchange vessels and serve as a means of minimizing the loss of ion exchange resins.

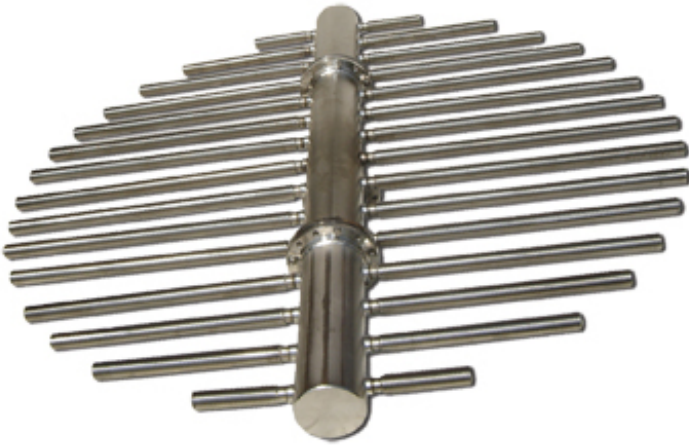


EVEREST EQUIPMENTS

PROFILE SCREEN LATERALS

Lateral Assemblies :

Everest Equipments Screen uses its wedge wire screen to manufacture Hub and Lateral assemblies . Typical configuration include both horizontal herring bone style and vertical secured round hub. Everest Equipments Screen recognizes the specific needs of each and every customer. With an on site ability to form wire, Concord Screen is able to control all variables in the wedge wire screen manufacturing process. Standard sized wires are available to complete a full range of wedge wire screen diameters and lengths.



Header Assembly :

In horizontal installations a main header is typically bolted into a longitudinal vessel. The header is supplied with welded couplings to accept either screen laterals or pipe based screen laterals.



EVEREST

EQUIPMENTS



Hub Assembly :

With a vessel mounted upright the pattern required of the under drain assembly is round. This style is achieved with a central hub. Again couplings are typically welded to the hub to accept either wedge wire screen laterals or pipe based laterals.

Screen Lateral :

As an efficient collector, the screen lateral is available in several sizes, with various slots and end fittings. Most commonly, the screen lateral is provided with a solid cap on one end and a threaded pipe connection on the other end.

Screen Selection Chart To Fit Over Pipe

Pipe Size	Nominal OD	Inside Dia	Wrap	Support
1/2"	1.375"	1.020"	60	60
3/4"	1.470"	1.150"	60	60
1"	1.750"	1.410"	60	60
1-1/4"	2.050"	1.740"	60	60
1-1/2"	2.375"	2.065"	60	60
2"	2.875"	2.505"	60	60
2-1/2"	3.500"	2.950"	60	90
3"	4.000"	3.610"	60	90
4"	5.250"	4.900"	60	90

Pipe Based Lateral :

Screen laterals are supplied with an internal or external distributor pipe when extra strength and/ or more effective back washing distribution is required.

For Sizes Larger Than 4" Contact Everest Equipments

EVEREST

EQUIPMENTS

IN DESIGNING COLLECTOR/ DISTRIBUTOR SYSTEMS

In designing collector/distributor systems, we take the following general considerations into account :

- **OPERATING TEMPERATURES** : Including transients or spikes.
- **OPERATING PRESSURES** : Including levels of collapse , burst and beam loading the screen must withstand.
- **FLOW RATE AND DIRECTION THROUGH SCREEN** : And whether backwash capability is required.
- **TYPE AND SIZE OF PARTICLES TO BE RETAINED**
- **ALLOWABLE OR DESIRED PRESSURE LOSS**
- **TYPE OF ENVIRONMENT** : Nature of liquids including pH , corrosivity ,etc.

EVEREST EQUIPMENTS

REPLACE OR UPGRADE COLLECTOR/DISTRIBUTOR SYSTEMS

Occasionally a system is already fully operational and requires only component replacement or upgrade. In such cases, the following general data will be needed :

- CRITICAL DIAMETERS : I.D. and O.D.
- OVERALL AND EFFECTIVE SCREEN LENGTH.
- SPECIAL FITTINGS AND PIPING : Described in detail or by drawing.
- SCREEN SLOT SIZE AND TOTAL OPEN AREA REQUIRED.
- ANY OTHER RELEVANT DATA.