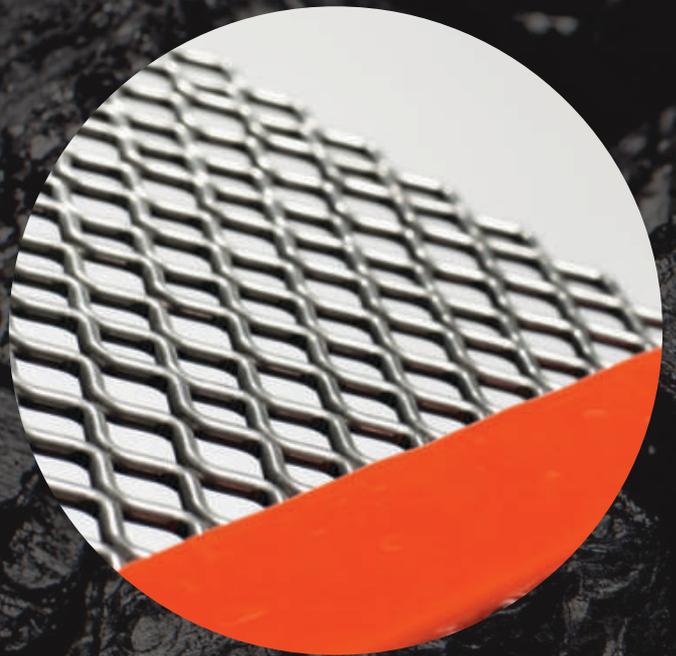
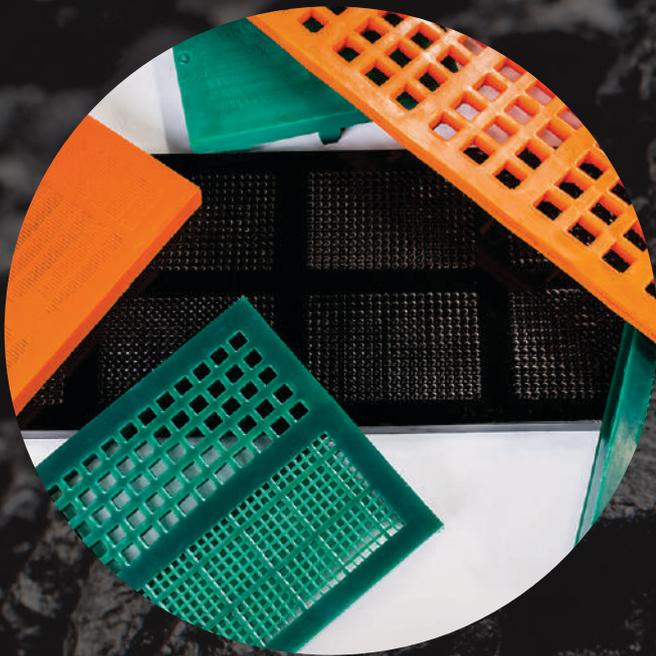
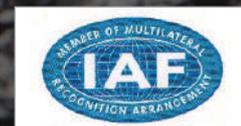


ISO-9001 2015
Certified Company

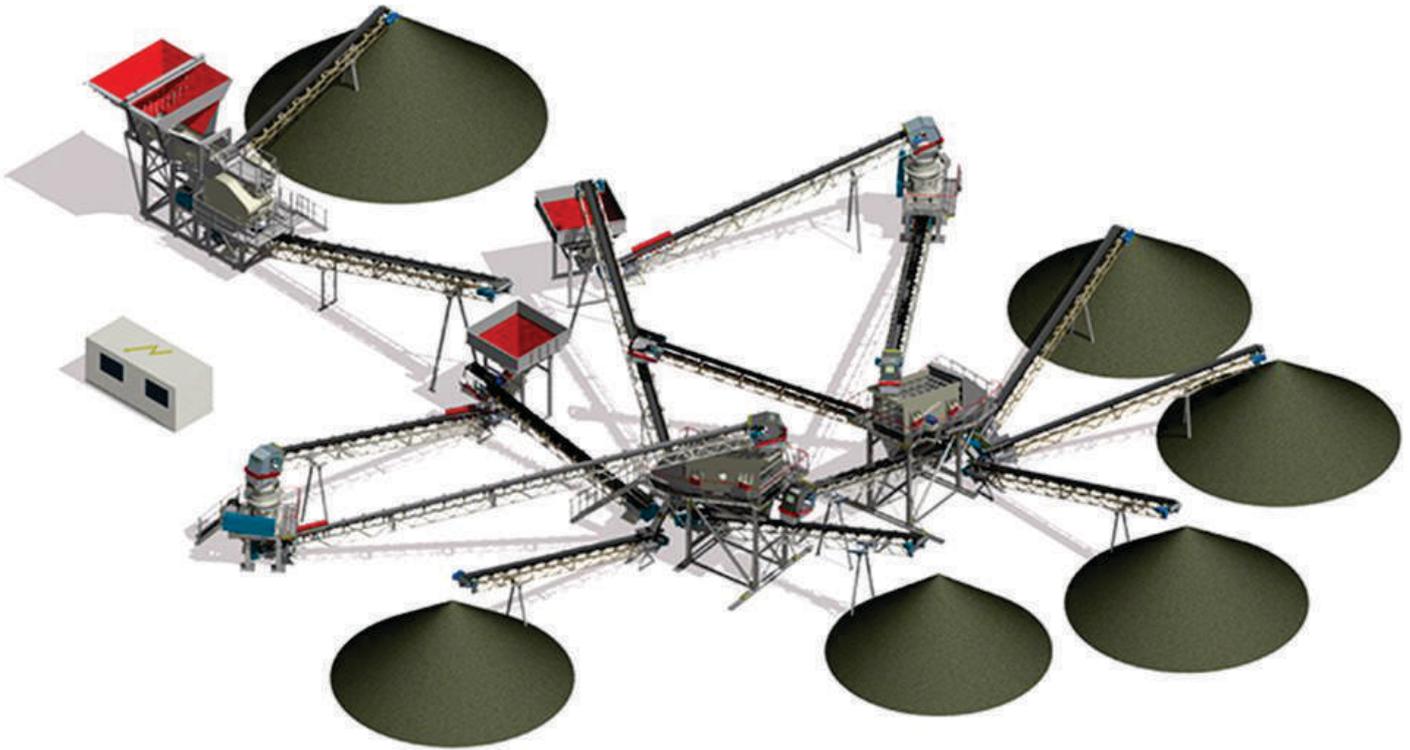


SCREENING MEDIA SPECIALIST

MORE
FLEXIBILITY
WITH MORE
STRENGTHEN



www.flexiflow.in



A company specialized in production of Hydraulic hoses, Screening media & Silowhip Machine in an ultra-modern facility, under the strict supervision of an experienced and qualified team.

To build and consolidate leadership position through successful research, market intelligence and Development. Where standards in quality and services climb new heights of excellence, achievements.

FLEXIFLOW leverages its topnotch capabilities in Design, Quality Assurance and ensure that their products consistently meet customer expectations in terms of quality and reliability. As a result of continuous improvement in every aspect of business, within a short span, FLEXIFLOW has become one of the most reliable sources of quality metallic flexible hose assemblies and screening medias among its customer. exact customers' requirements and strict adherence to the delivery schedule with personal attention to every customer. A full range of metallic flexible hoses, hose assemblies and metal screen mesh are manufactured in austenitic steel with grades AISI 304, 321, 316, 316L and high carbon conforming to international quality standards.

To build and consolidate leadership position through successful research, market intelligence and Development. Where standards in quality and services climb new heights of excellence, achievements is measured from customer satisfaction, Strength lies in its employees, suppliers and distributors.

QUALITY ASSURANCE

Quality Assurance at Flexiflow Industries is of dynamic prominence. Every stage of production is constantly monitored by a qualified team of QC Engineers. Flexiflow Industries has complete inhouse testing facilities for various types of tests, as per international standards.

Besides stringent in-house control of quality, raw materials are source only from reputed manufacturers and these are regularly counter checked from external independent agencies for Quality in business.

Woven Wire

Woven Wire screens are the most widely used screens in the aggregate and mining industries, due to their high screening area, precision and price ratio.

They are manufactured in different geometries (square or slotted meshes) and different weaving styles (double crimped, flat mesh, etc.). All meshes have very pre-cise screening capability due to their crimping style and are manufactured using the best steel alloy to withstand high abrasion, tension and impact.

Manufacturing high quality meshes also requires a strong focus on the inside tension of the mesh. Flexiflow Screening Media has the know-how that comes with experience to ensure the appropriate tension to avoid minimum vibrations that can cause the mesh to break.

Manufactured under the following standards:

- High-Resistance Steel: UNE-EN-10270-1:2012
ISO 8458-2:2002
DIN 17223
- Stainless Steel: UNE-EN-10088-3:2008
Stainless Steel Quality:
Austenitic: AISI-304 / EN-1.4301
AISI-316L / EN-1.4404
AISI-310 / EN-1.4845
Duplex: AISI-S32001 / EN-1.4482
- Technical requirements and testing:
ISO-14315:1997, ISO-4783-3:1981,
ISO-9044:1999, ISO-2194:1991

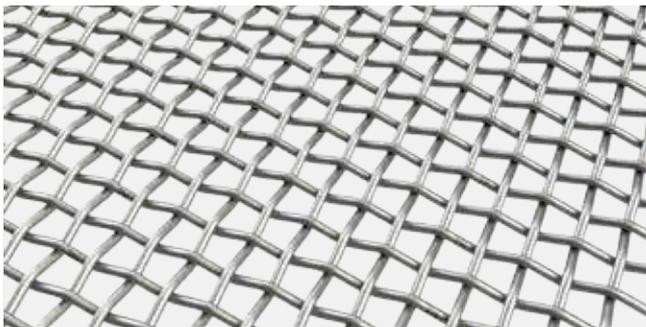
Square aperture mesh:

This is the most used type of mesh in screening, due to its very high precision. There are two types according to the crimping style:

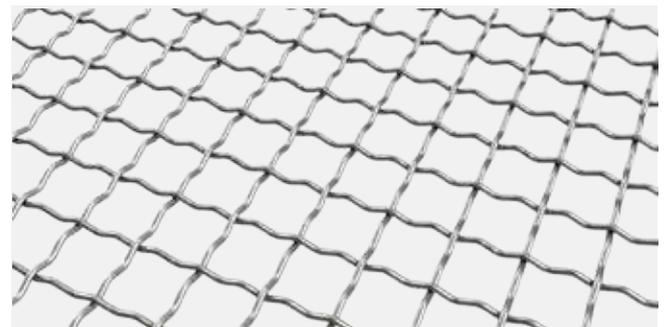
Double crimp mesh, manufactured with crimped wires that form an irregular surface, which makes the material rotate along the surface of the screen, giving it more possibility of

being classified. This type is mainly used in small aperture sizes, from 0.168mm onwards, and achieves precise classification using small wire diameters.

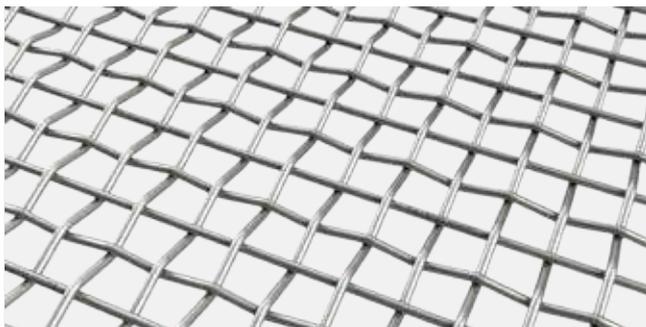
Flattex is manufactured with wires crimped on one side only, making a flat-top working surface, thus extending the screens durability and allowing bigger apertures with high precision. It is generally used with coarse material.



Type A Double crimped screen



Type A Single or double intermediate crimped screen



Type A-L Crimped straight wire screen

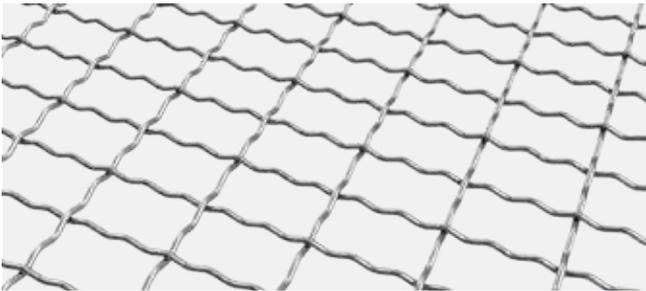


Flattex

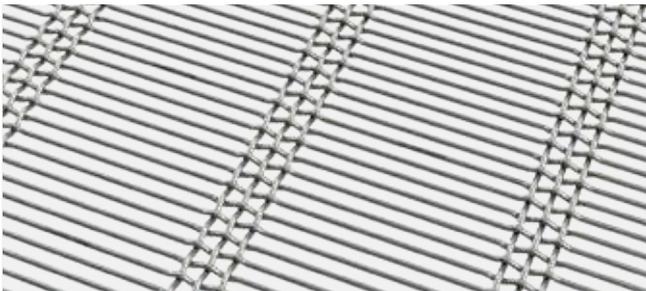
Rectangular aperture mesh:

These meshes have high screening area, a more self-cleaning effect and allow elongated particles to go through, reducing precision but increasing capacity. The rectangle shape works differently if placed perpendicular to the flow or parallel. In the first case it reduces the speed of the material flowing on its surface giving particles more time to go through the apertures; in the second case it allows more material to be processed but reduces precision.

This meshes have crimped wires similar to Square mesh, adjusting the amount of intermediate crimps we can configure the desired rectangle, triple shot meshes combines crimps and flat areas on the wire, making long slots which have a higher self-cleaning effect and Flat rectangular meshes use indistinctly crimped and flat undulated wires which tend to maintain a flat work surface, using high diameter or double wires to achieve greater resistance to heavy materials.



Crimped rectangular screen



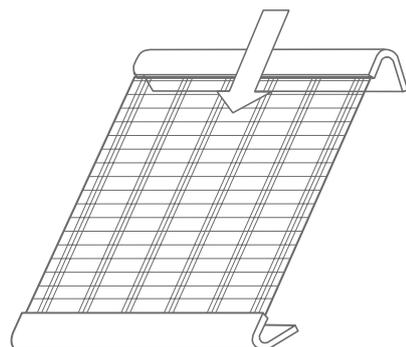
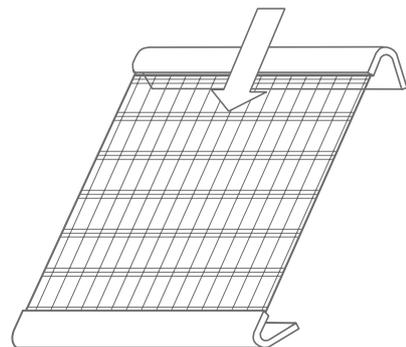
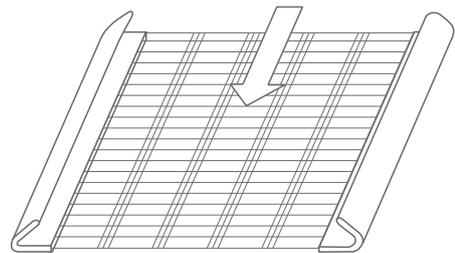
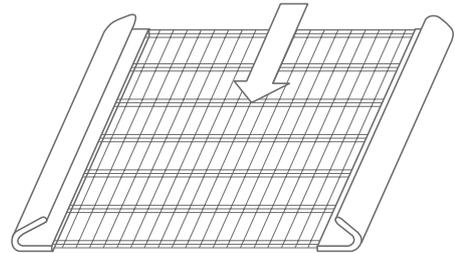
Triple shot slotted screen



Flat rectangular screen



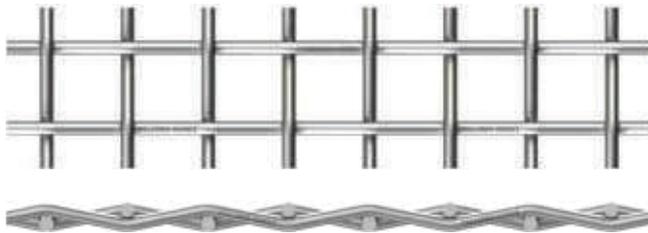
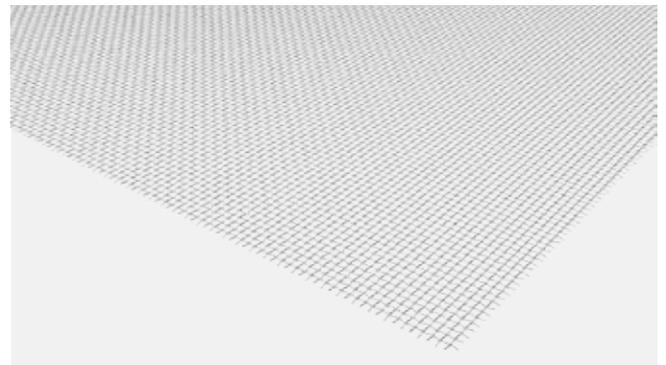
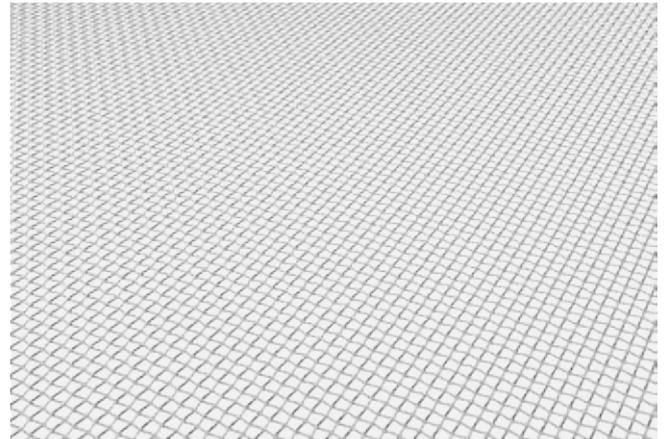
Reinforced flat rectangular screen



Fine Screen

Characteristics

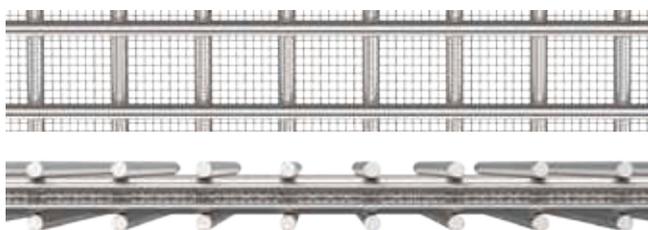
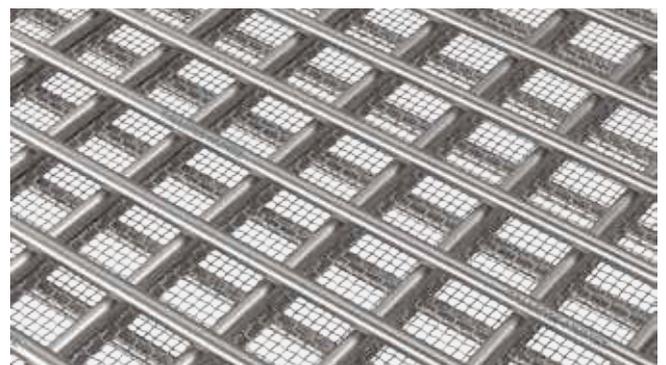
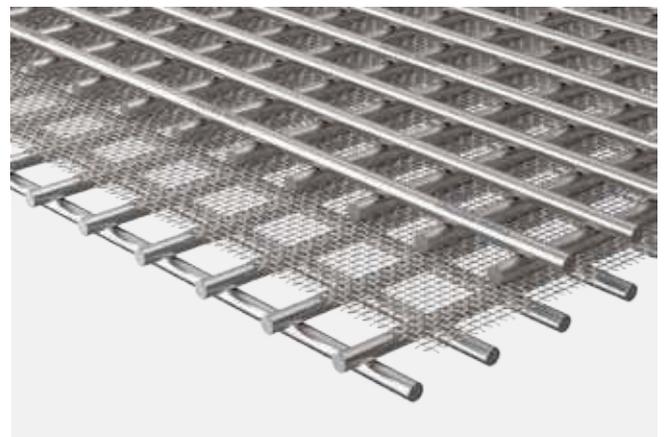
- Using the thinnest wires available, in order to obtain the most screening area capacity. Mainly made in stainless steel, but also available in high carbon steel.
- The wires of this type of mesh are crimped to achieve maximum rigidity.
- The apertures of this range of meshes go from 0.168 mm to 5 mm. (Other apertures on demand)



Extra fine reinforced screen

Characteristics

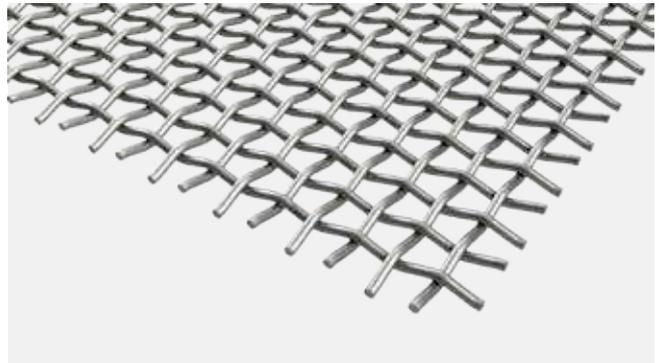
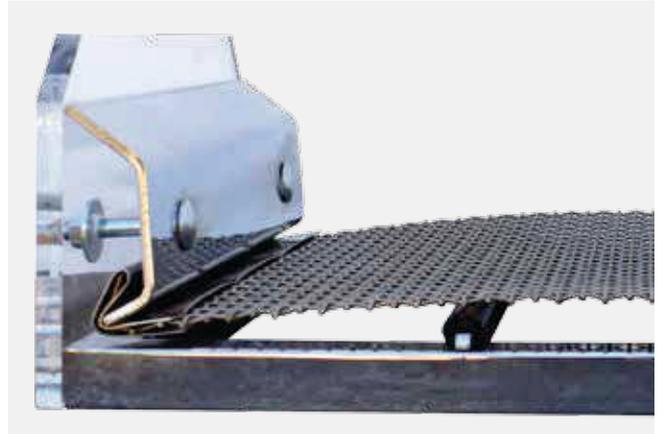
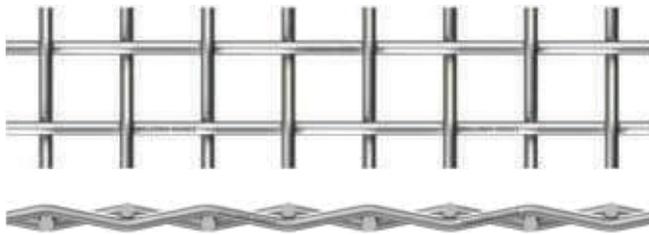
- Designed to withstand large loads, it consists a type A-F extra fine meshes pressed between two electrowelded meshes or type A meshes with a larger aperture. A wide range of aperture combinations are available between each mesh.



Double crimp screen

Characteristics

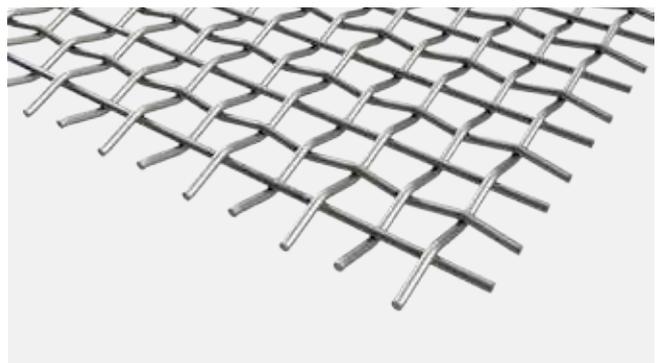
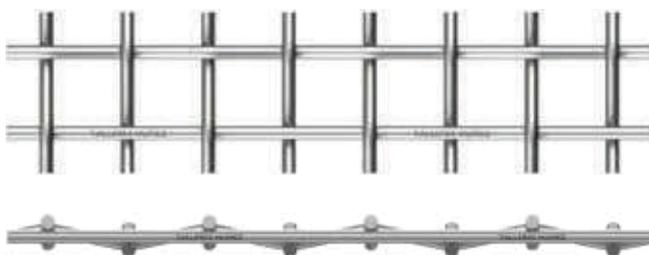
- Manufactured with crimped wires to achieve maximum rigidity.
- Crimped with high precision tools to obtain precise screening apertures.
- They work perfectly in conditions where materials are not sticky or with a high tendency to peg or wedge. With great precision and high performance thanks to their high percentage of screening area.
- The high tensile strength of the steel used allows great resistance to vibration and a long wear life.



Crimped straight wire screen

Characteristics

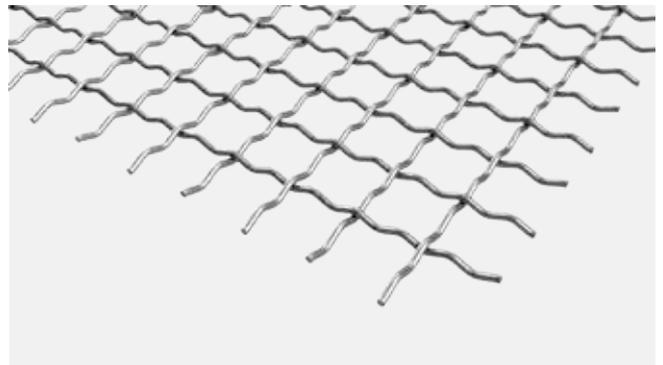
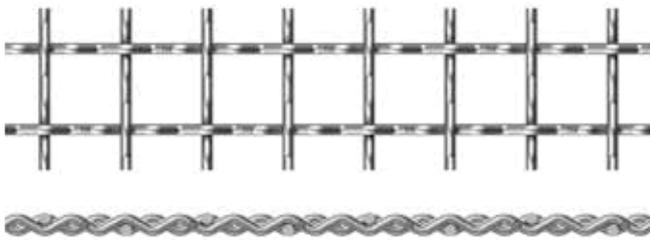
- Manufactured with crimped and straight wires in a similar way to type A meshes, so that when tensioning the straight wires it allows a different vibration on the crimped wires, resulting in a self-cleaning effect.
- These meshes have a similar cutting precision to type A meshes.
- Its self-cleaning properties increase its production capacity.



Single or double intermediate crimp screen

Characteristics

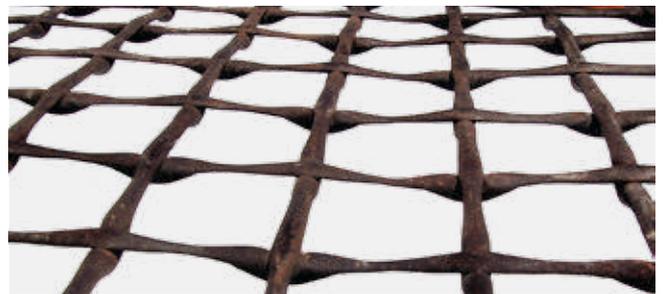
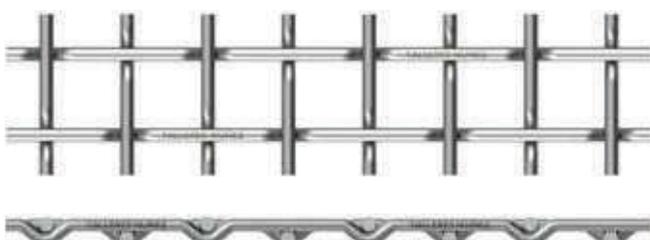
- This mesh is similar to Square A mesh, having the same type of crimped wires, but these have intermediate crimps in the apertures making wires more rigid, allowing larger apertures with the same wire diameters.
- It is used in applications that need big aperture size and small wire diameter.



Flattex Screen

Characteristics

- This type of mesh is manufactured with wires crimped on one side only, making a flat-top working surface, this extends the screens durability and allows bigger apertures with high precision. It is generally used with coarse material.
- Its robust, non-deformable structure allows it to work under heavy loads in extreme conditions.
- Its flat working surface makes it resist heavy wear giving it a higher life span.



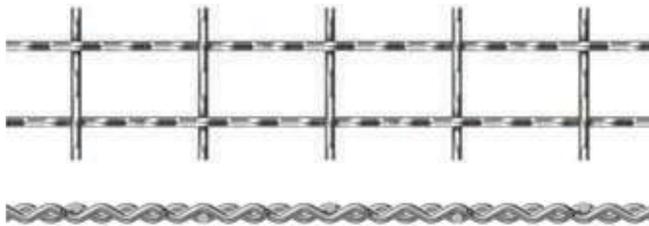
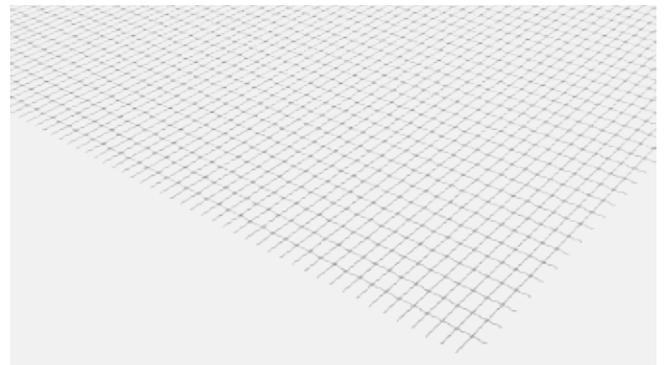
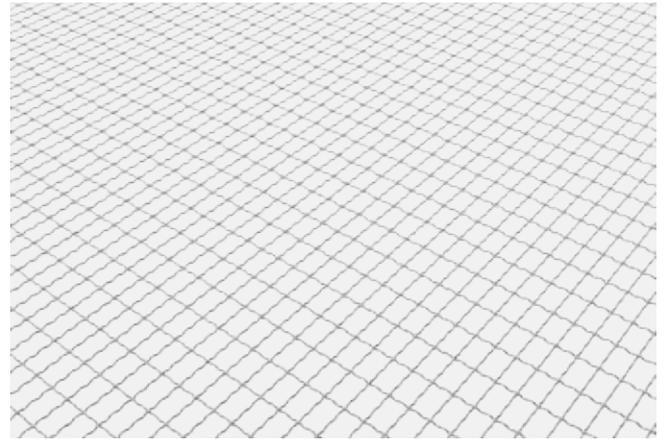
- Aperture mesh 40/8 after 550 hours with 98% SiO₂ aggregate.
- Even wear throughout the work surface and the nodes dressing the mesh remain intact.



Crimped rectangular extra fine screen

Characteristics

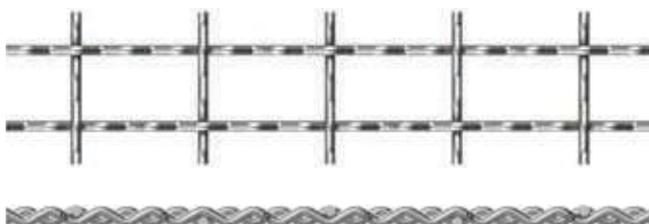
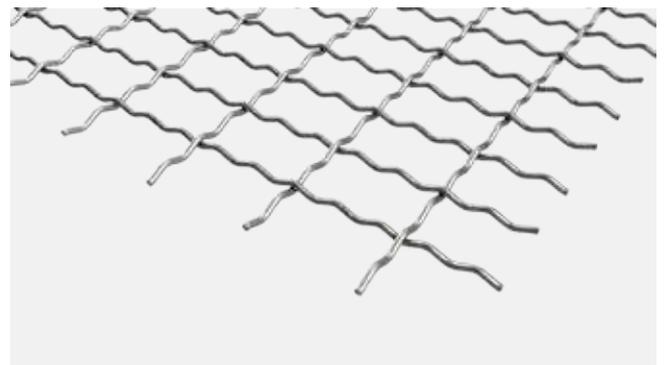
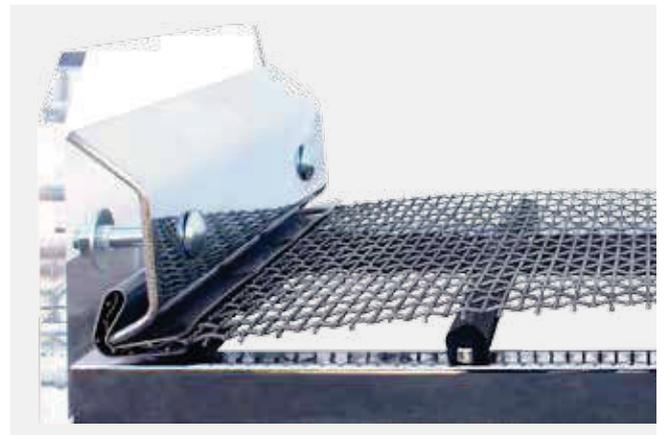
- Using the thinnest wires available, in order to obtain the most screening area capacity. Mainly made in stainless steel, but also available in high carbon steel.
- Its rectangular aperture is achieved allowing intermediate crimps between the wires.



Crimped rectangular screen

Characteristics

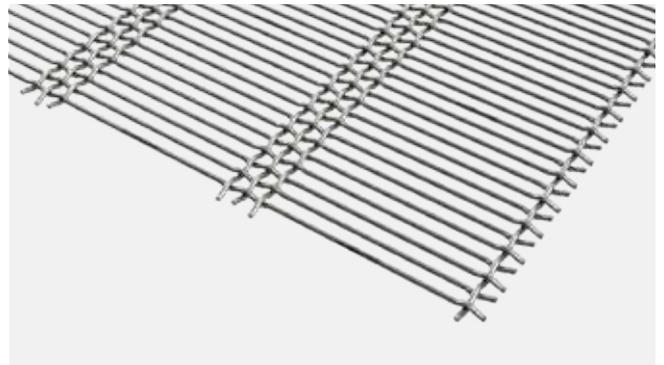
- This mesh has crimped wires similar to Square mesh, by adjusting the amount of intermediate crimps we can configure the desired rectangle aperture.



Triple shut Slotted screen

Characteristics

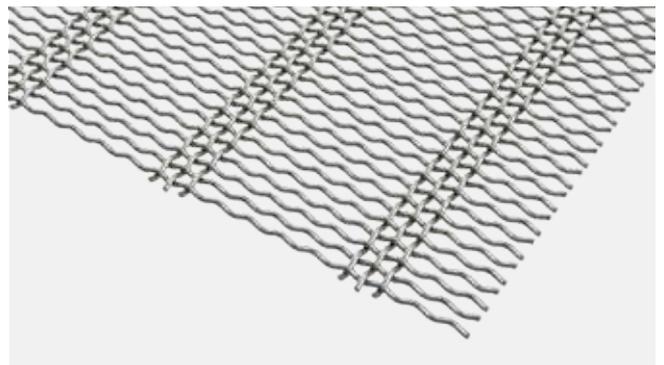
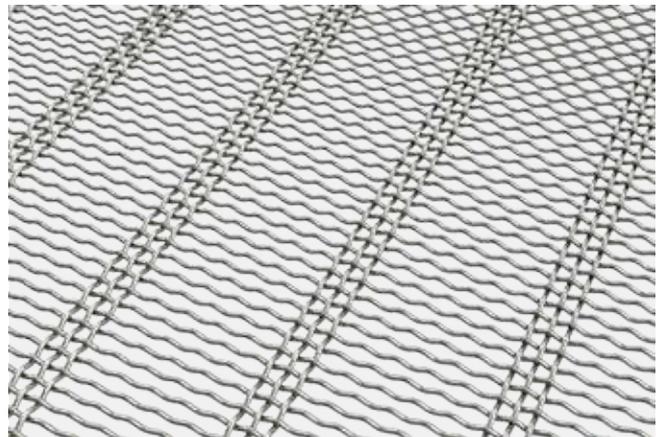
- It is formed by wires with different crimping: those which secure the mesh on the small side of the rectangle aperture are Square crimps and those on the long side of the rectangle aperture have a combination of straight and crimped areas.
- This type of mesh has high screening area in its cross bands.
- The slot shape aperture has good self-cleaning effect, making it a good choice for screening humid and sticky materials.
- The direction of the slot varies considerably its application; for more information please refer to the rectangular meshes section of this catalogue. (See page 30)



Triple shut Intercrimp slotted crimped screen

Characteristics

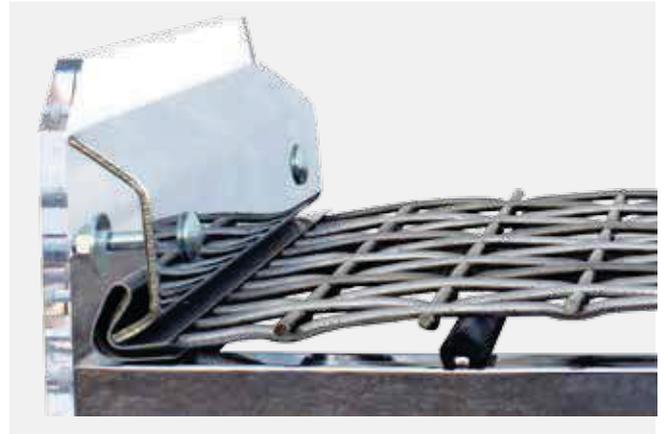
- This mesh has similar characteristics to Triple shut mesh, but has crimped wires instead of straight wires, this gives it more rigidity and allows the material to turn and rotate more on its surface



Flat rectangular screen

Characteristics

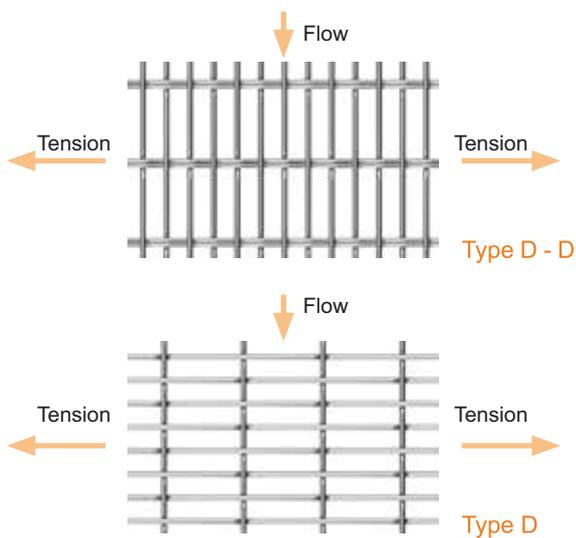
- This type of mesh is similar to Flattex mesh but having weft and warp wires with crimps at a different pitch, making the rectangular aperture.
- It is used not only to avoid wedging of the materials to be classified, but also, depending on the position of the rectangular aperture, to reject or classify elongated particles.



Reinforced flat rectangular screen

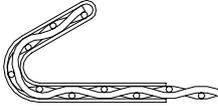
Characteristics

- It serves the same purpose as the rectangular Flattex mesh.
- When the tension is carried out on a lesser number of wires, they must be strengthened with double wire:

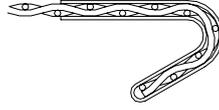


Hook types

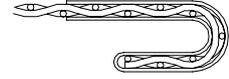
TYPE 1



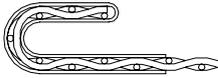
TYPE 1 - BIS



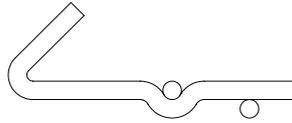
TYPE 2



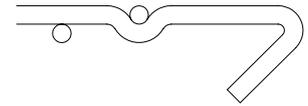
TYPE 2 - BIS



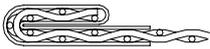
TYPE 3



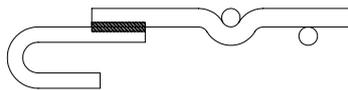
TYPE 3 - BIS



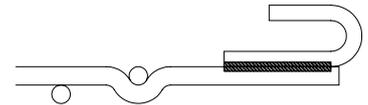
TYPE 4



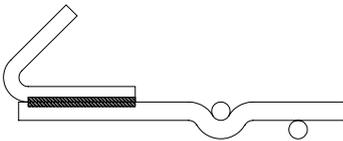
TYPE 5



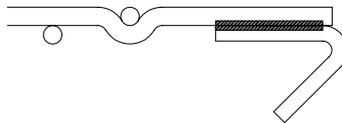
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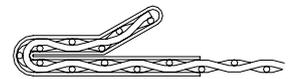
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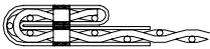
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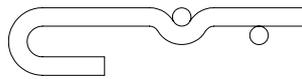
TYPE 7



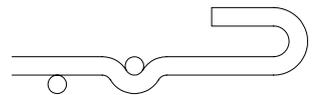
TYPE 8



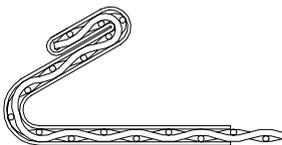
TYPE 9



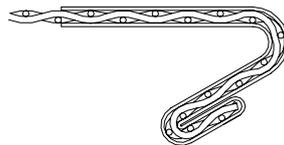
TYPE 9 - BIS



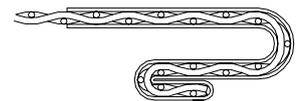
TYPE 10



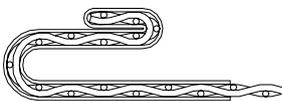
TIPO 10 - BIS



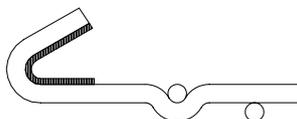
TIPO 11



TYPE 11 - BIS



TYPE 12



TYPE 13



Self-cleaning screens

Certain materials have a tendency to adhere to the screen (blinding), or become wedged (pegging), due to their humidity, plasticity or shape. This considerably reduces the production capacity of the screen and increases the downtime of the machine.

To solve this problem we have self-cleaning screens with crimped or straight wires, which vibrate independently from one another, being excited by the vibration of the machine and also by the weight of the material to be screened. This allows a noticeable increase in production and a longer life span of the meshes.

These meshes also offer a high percentage of screening surface, which makes them highly recommendable for improving production capacity.

Flexiflow Screening Media's self-cleaning screens are:

Poly ripple This is our most popular self-cleaning screen, having a very good combination of screening capacity and precision.

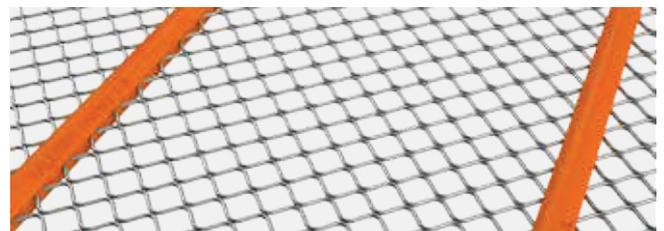
Poly veno harp Is very similar to Poly ripple but its precision is increased by adding a straight wire in between each of the crimped wires, which limits the movement of the crimped wire, making it more precise but lowering its screening area. Very effective under heavy loads and higher impact materials.

Poly wavy Is made with crimped wires placed parallel to each other, this allows a very large screening area, but gives lower precision. It is highly recommended for the removal of fines.

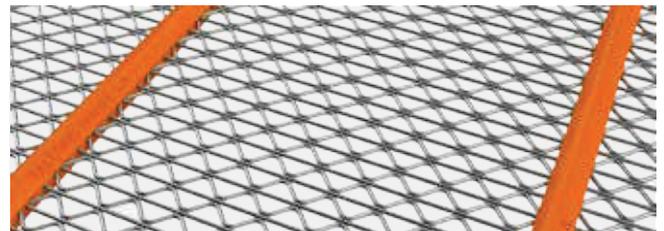
Poly piano Also called harp screen or piano wire. It has straight parallel wires, having the largest screening area with low precision. It is mainly used in end tension mobile screens to classify sands, gravel, and other dry materials.

Manufactured under the following standards:

- High-Resistance Steel: UNE-EN-10270-1:2012
ISO 8458-2:2002
DIN 17223
- Stainless Steel: UNE-EN-10088-3:2008
Stainless Steel Quality:
Austenitic: AISI-304 / EN-1.4301
AISI-316L / EN-1.4404
AISI-310 / EN-1.4845
Duplex: AISI-S32001 / EN-1.4482



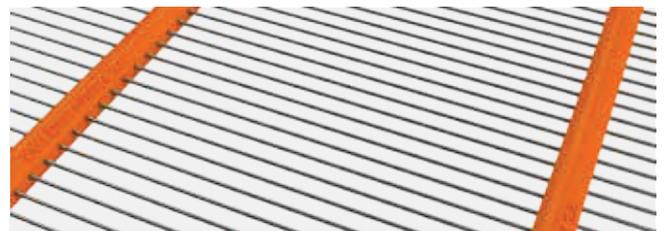
Poly ripple



Poly veno harp



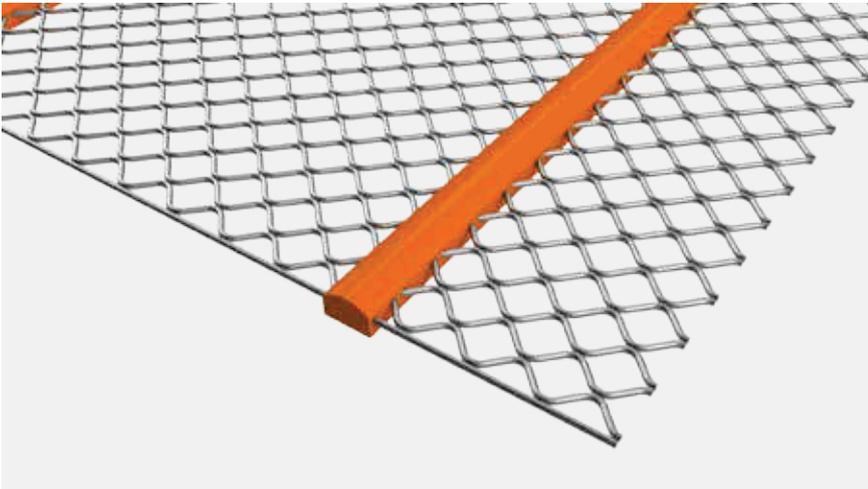
Poly wavy



Poly piano

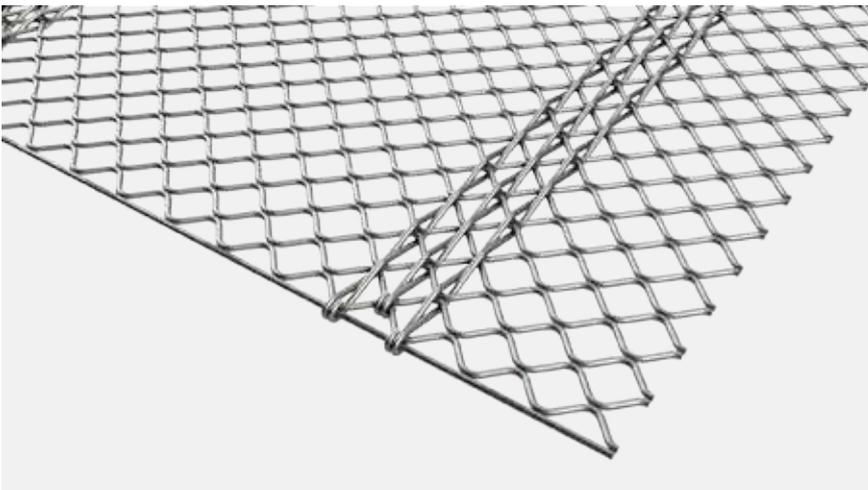
Cross band types

Self-cleaning screens are made with independent wires and cross band sections. These cross bands ensure the correct aperture dimension and should be placed with regard to the wire diameter and the machine supports.



Polyurethane cross bands

- Polyurethane cross bands, generally made with 80° Shore hardness PU, withstand most of the aggregate screening applications, offering great wear resistance and increasing the screen's wear life.
- Used in all types of self-cleaning screens.



Steel wire cross bands

- Used in applications where temperatures exceed 70°C.
- Highly recommended for asphalt plants.
- It is used in ripple screen



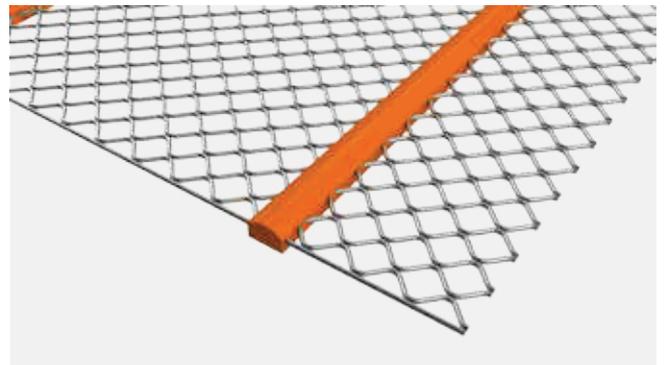
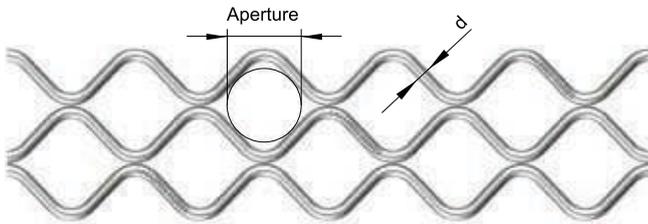
Mobile cross band

- Mobile cross bands to fit any machine deck.
- Mainly used in mobile screening plants.
- Only used on piano screen

Self-cleaning Screen Poly Ripple Type

Characteristics

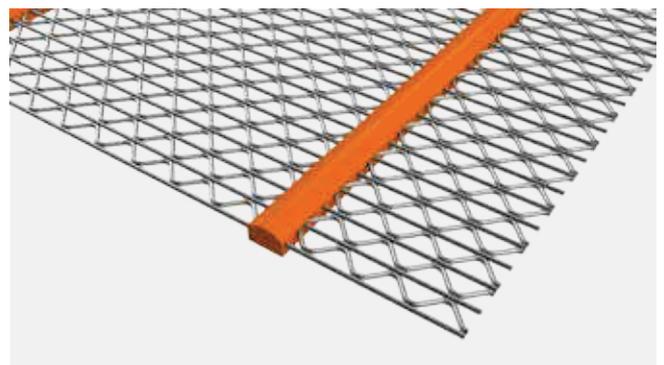
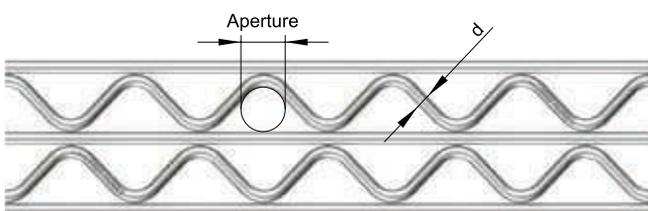
- The crimped wires form a square-shaped aperture, obtaining a precise and effective screening.
- Its individual wires vibrate independently from one another, avoiding material build-up, pegging and blinding.
- This type of screen is the most popular of the self-cleaning series, offering great screening capacity and precision.



Self-cleaning Screen Poly veno sharp

Characteristics

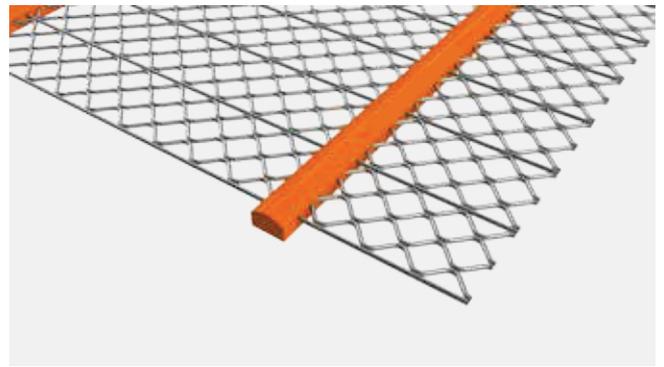
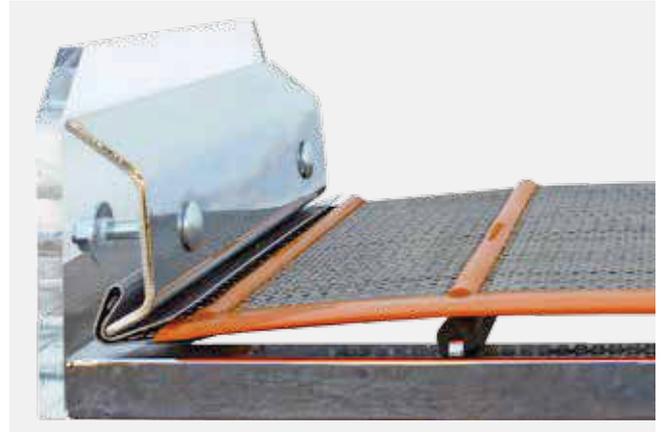
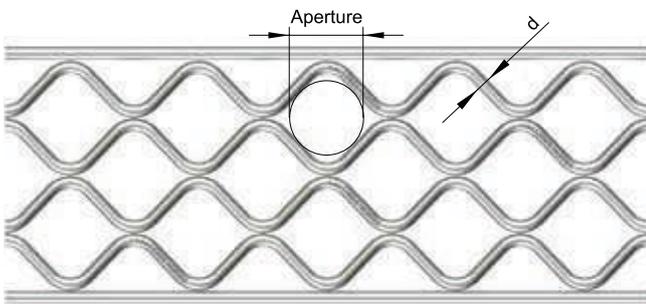
- It has a straight wire in between its crimped wires which maintains the correct aperture size under heavy loads and high impact material screening.
- This more precise classification prevents wedging of elongated particles.



Self-cleaning Screen Poly Ripple Rec

Characteristics

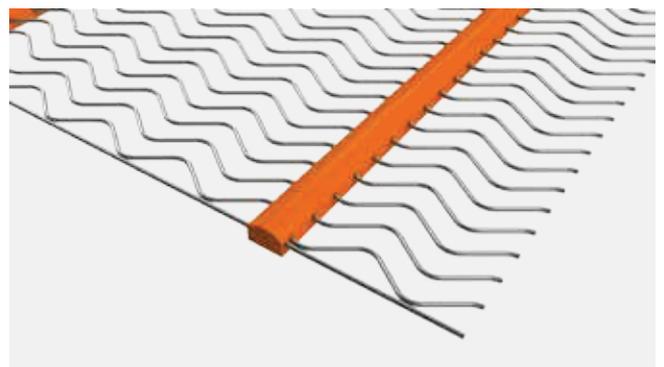
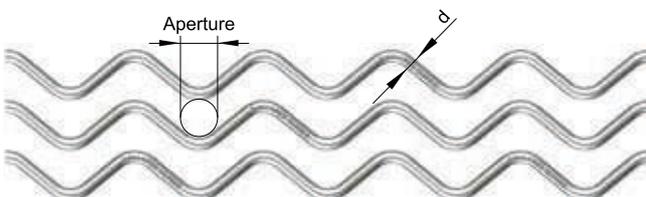
- It is a combination of Ripple and Veno screens.
- It is used when more precision is required at a maximum production output.



Self-cleaning Screen Poly woven

Characteristics

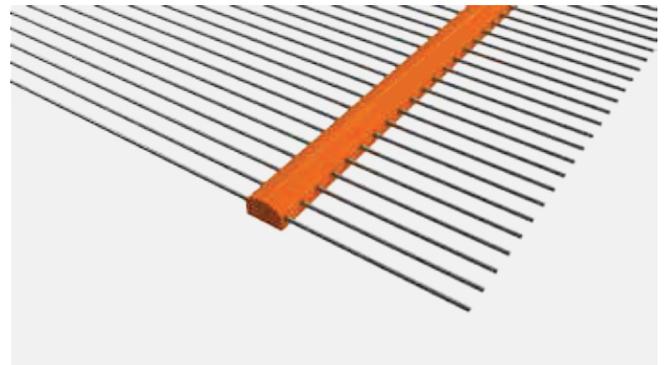
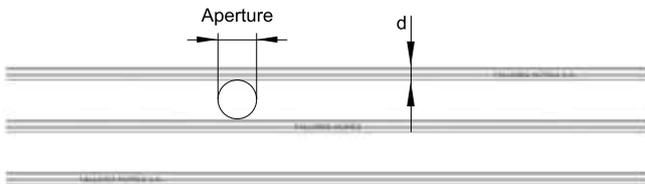
- It is a low precision screen but with a high production rate, making it perfect for removing fines.
- It is used in small aperture sizes and in end tension decks.



Self-cleaning Screen Poly Piano

Characteristics

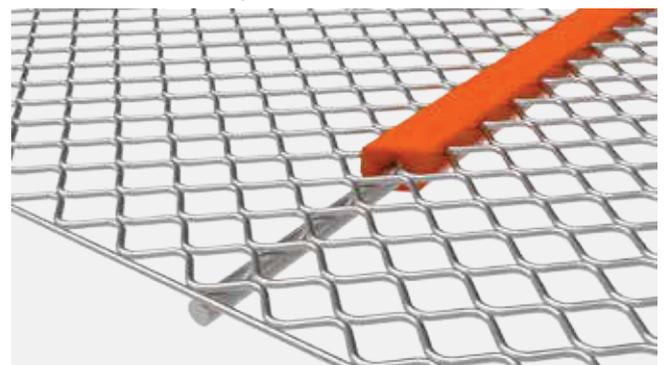
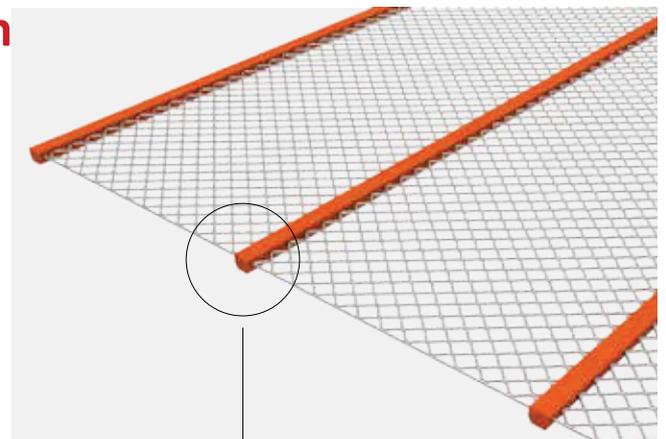
- The Piano screens, normally called Harp screen or Piano wire, have straight parallel wires, separated with cross bands to obtain the correct aperture size.
- Distances between these cross bands can be much higher than in the other self-cleaning screens.
- Their high screening area is perfect for the screening of sand and gravel and offers very low resistance to the materials passing through, this gives them a long wear life.
- They can be manufactured with mobile cross bands for easy installation on mobile screening plants.



Tension-free self-cleaning screen with PU coated metal rod

Characteristics

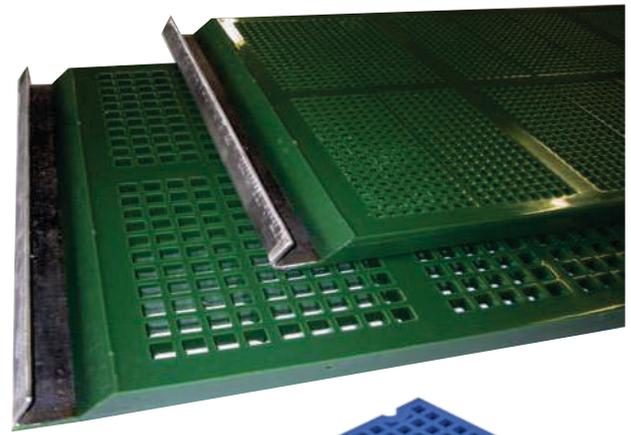
The self-cleaning effect is well known on tensioned self-cleaning screens, on which the independent wires vibrate separately in order to avoid blinding, pegging and wedging of materials screened. But there are cases when machines do not have the tensioning system. For these cases Screening Media has designed and developed the reinforced self-cleaning screens. This kind of screen maintains the self-cleaning effect without the need of being in tension. They have a rigid reinforcement that allows them to be attached to the deck or machine structure, either bolted down or pressed down with side plates.



Polyurethane Screen

Polyurethane, due to its high anti-abrasiveness and great elastic properties, is advisable for screening abrasive materials and performs at its utmost under dry or humid conditions.

PU can be formulated in various hardnesses, formats, according to the application it is used for.

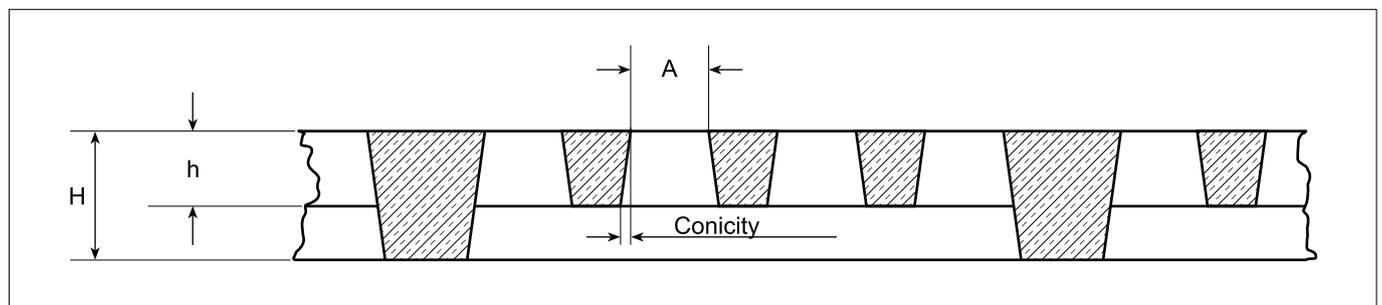


Characteristics

- Maximum duration compared with other screening materials.
- Minimum maintenance cost.
- Easy to install
- Low obstruction (conic perforations and elasticity).

Mechanical characteristics of PU

Shore hardness A:	55°	60°	65°	70°	75°	80°	85°	90°
Tensile strength DIN 53504-Mpa	31	37	43	54	56	56	57	56
Elongation break DIN 53504-%	615	550	530	520	520	520	515	515
Tear strength without nick ISO 43-1-KN/m	37	48	61	73	80	92	105	120
Tear strength with nick ISO 43-1-KN/m	21	22	24	25	27	30	41	53
Resilience DIN 53512-%	65	63	59	55	54	53	49	46
Abrasive loss ISO 4649-1-mm ³	40	40	40	40	40	45	45	45
Compression set ISO 815-1-%	46	44	41	39	38	25	25	25
Density	1,20	1,21	1,21	1,21	1,21	1,21	1,22	1,22



A = Aperture (square and rectangular).

H = Total thickness

h = Screening thickness

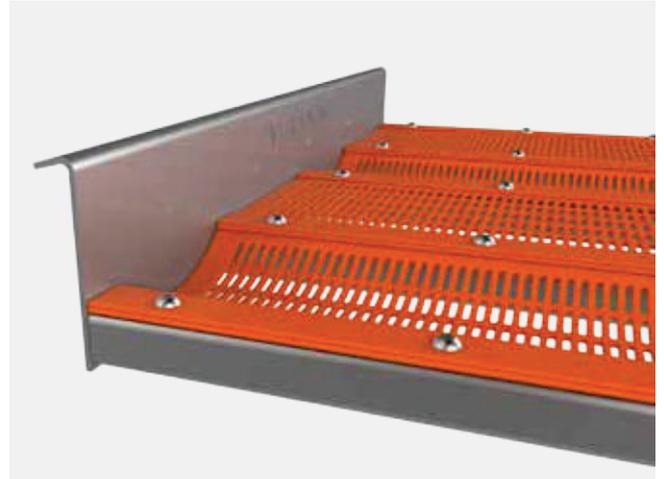
The thicknesses depend on the aperture requested and the workload.

Range of possible hardnesses: 45° - 90° Shore A

Polyurethane Systems Flip flop screen

Characteristics

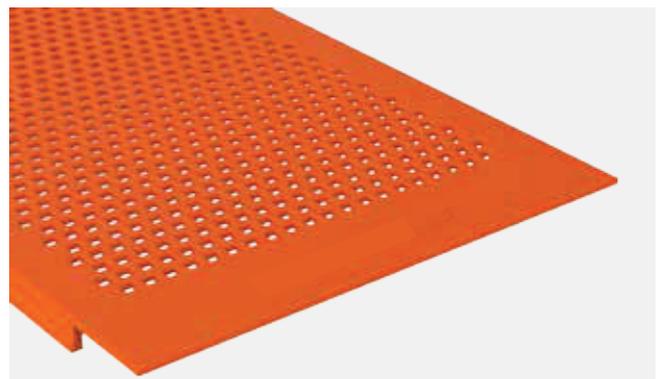
These Flip flop or Flip flow screens are made to suit dual vibration screening machines, which agitate the material violently. This will leave the screen free from blinding even with the most difficult materials. They are generally made in 70° Shore polyurethane in 3-5mm thickness.



Polyurethane Systems

Characteristics

This is another model of Flip flop or Flip flow screen; in this case the deck has a special metallic profile, where the panels are fitted using a rubber wedge. These screens are also manufactured in 65° – 80° Shore.

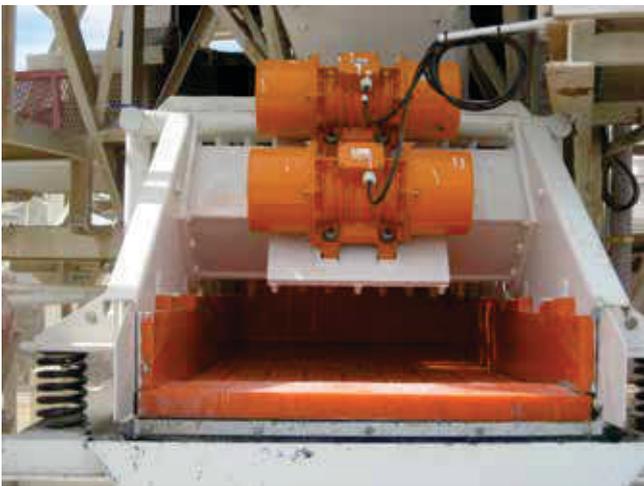


Dewatering Screen

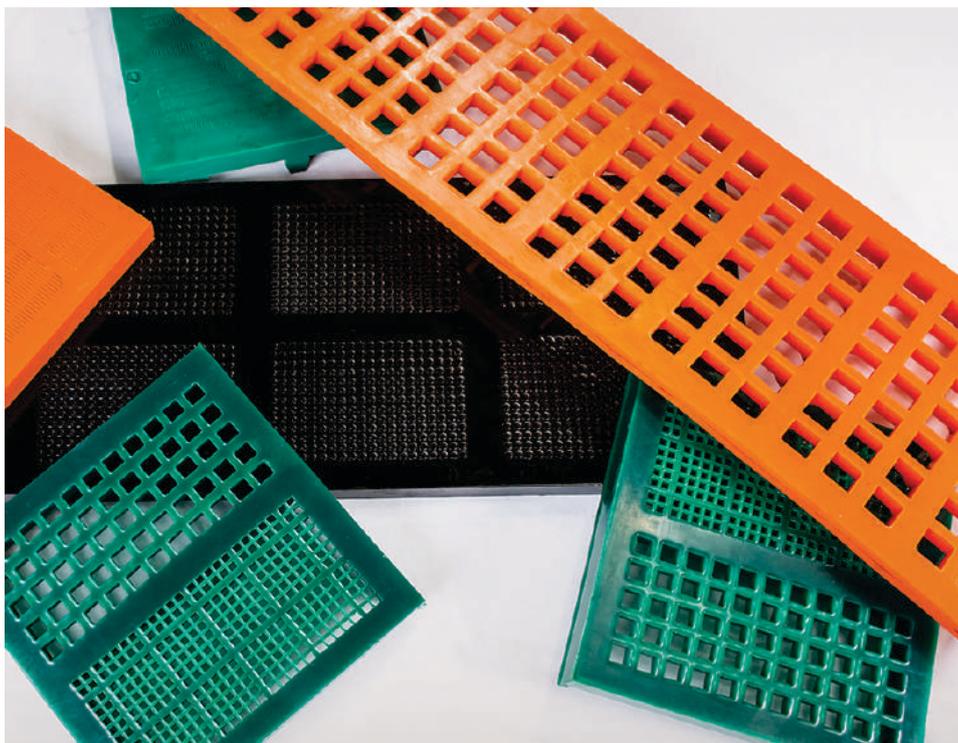
Dewatering screens are used to recover water from wet screening processed material, lowering the water content and eliminating any fines, clays or fillers that could be left in the material feed.

Dewatering PU modules have great properties in wet applications and a high wear resistance.

They can be configured to fit any dewatering screener and are manufactured with apertures of 0,2x11 - 0,3x16 - 0,4x11 - 0,5x16 - 0,6x11 y 0,8x16 mm.



Dewatering aperture module



FLEXIFLOW'S OTHER RANGE OF PRODUCTS

HOSES

- STAINLESS STEEL HOSE
- STAINLESS STEEL HIGH PRESSURE CORRUGATED HOSE
- CORRUGATED FLEXIBLE EXOTIC METAL HOSE
- OIL SUCTION & DISCHARGE HOSE
- LIQUIFIED PETROLEUM GAS (LPG) HOSE
- CHEMICAL HOSE
- HIGH PRESSURE HYDRAULIC HOSE
- WATER SUCTION HOSE
- EXPANSION JOINTS
- XLPE HOSE
- STEAM HOSE
- COMPOSITE HOSES
- PHOSPHORIC ACID SUCTION & DISCHARGE HOSE (FFIPS)
- CARBON FREE HOSE (FFICF)
- BREWERY & CERMERY HOSE (FFIBC)
- CABLE / FURNACE COOLANT HOSE (FFICF)
- AIR HOSE, PNEUMATIC HOSE, ROCK DRILL HOSE
- SAND / SHOT BLASTING & CEMENT GROUTING HOSE (FFISC)
- SAND AND GRAVEL HOSE (FFISG)
- COMPOSITE / POLYPROPYLENE HOSE (FFIC)
- PTFE LINED COMPOSITE HOSE (FFITC)
- TUBES
- SMOOTH FLEXIBLE HOSE
- CONVOLUTED BRAIDED
- EPDM COVERED
- FLUOROPLASTIC
- LOW PRESSURE TUBE
- HIGH PRESSURE TUBE
- SIL - SILICONE TUBING AND EXTRUDED PROFILES
- GSP - GLASS FIBRE SLEEVING TREATED WITH SILICON
- SIL - PROFILES NBR - EPDM - FKM - SIL
- GSP - RSIL - RINFORSIL BRAIDED SILICONE HOSES
- SIL - ARMED SIL - REINFORCED SILICONE TUBES WITH SS WIRE SPRING
- P.T.F.E. THREAD SEALING TAPE
- SILICON METALLIC
- SILICON RUBBER
- PTFE LINED PIPES & FITTINGS
- QUICK RELEASE COUPLINGS (QRC)
- QUICK CAMLOCK COUPLINGS
- GROUND JOINT COUPLINGS
- CHICAGO COUPLINGS
- FOOD INDUSTRY COUPLINGS
- DRY BREAK COUPLING
- SAFETY BREAK AWAY COUPLINGS
- CUSTOMISED EXPANSION JOINTS
- MULTIPLY EXPANSION JOINT
- WELDLESS CORNERED RECTANGULAR MULTIPLY EXPANSION JOINTS
- LARGE DIAMETERS BELLOWS
- FABRIC EXPANSION JOINTS
- HEAT AND COOLANT – TRACED HOSE
- ELECTRICALLY HEATED CONVOLUTED CORE HOSE

SILOWHP MACHINE

- SILOWHP MACHINE



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