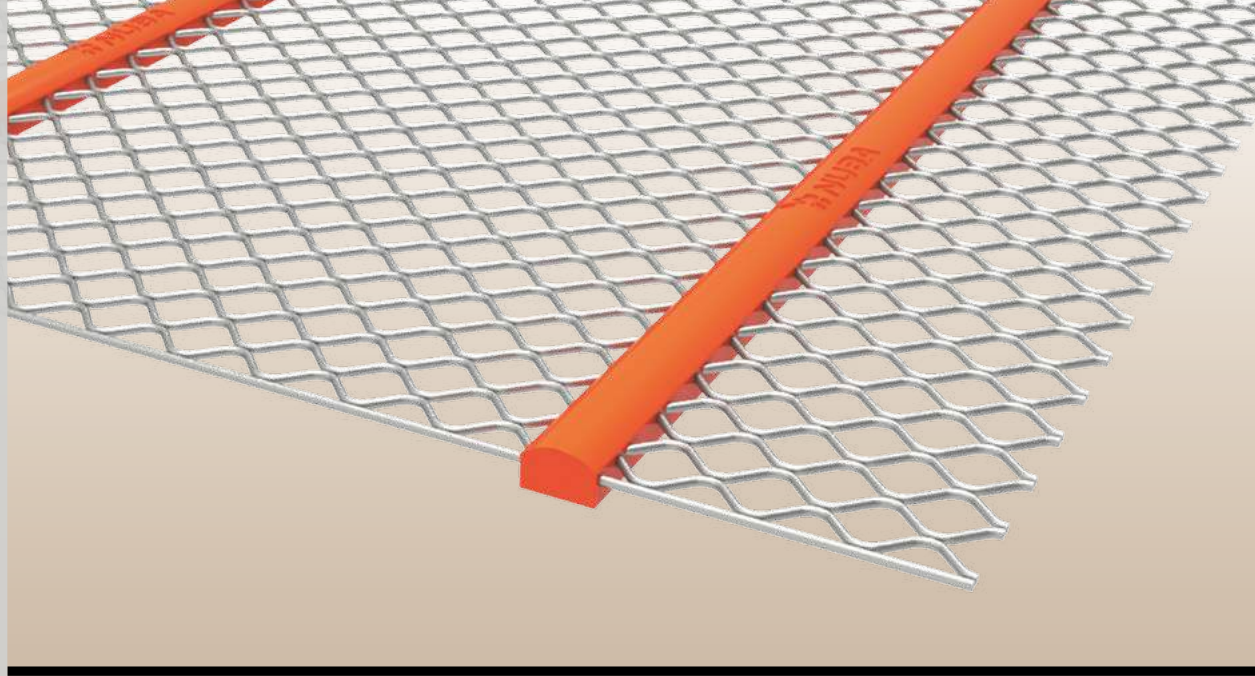
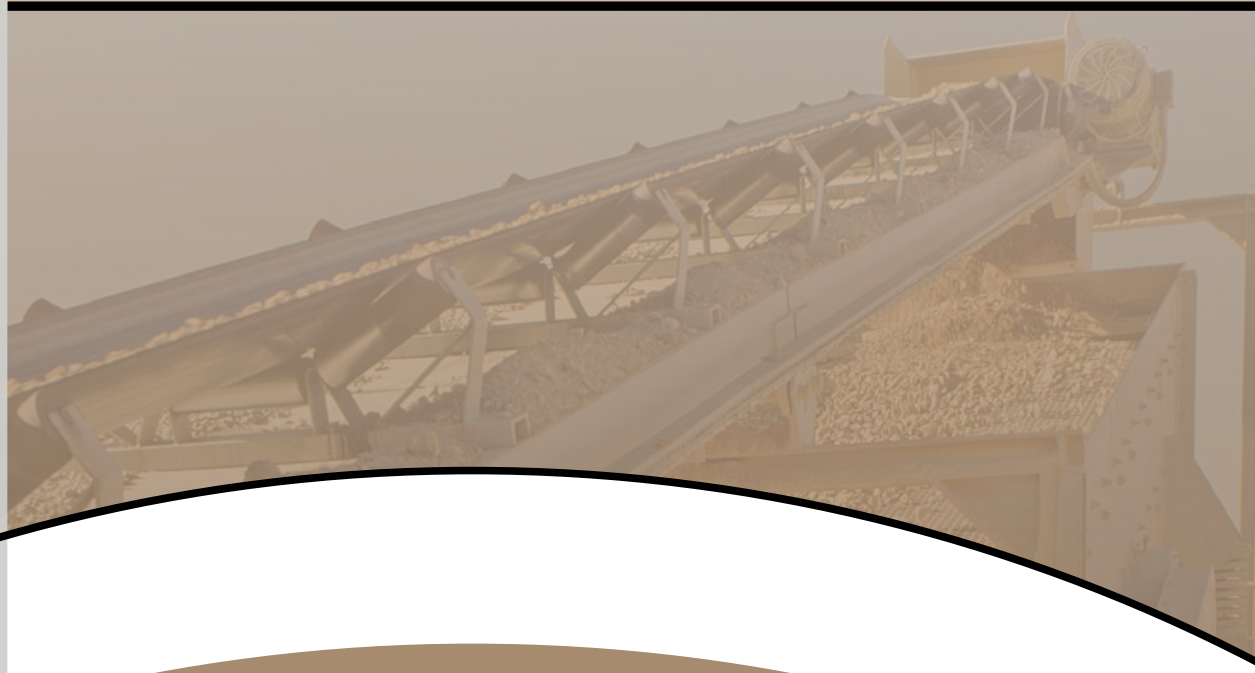
Self-cleaning Screens





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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 lifespan of the meshes.

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

NUBA Screening Media's self-cleaning screens are:

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

Rectonda®: Is very similar to Doblonda® 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.

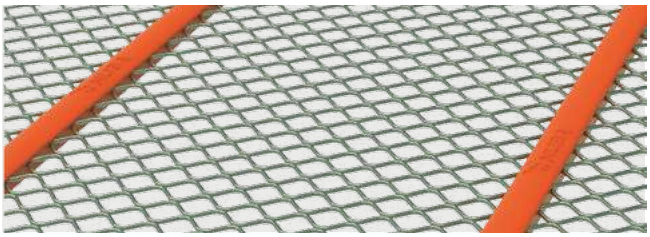
Doblorec®: Is a combination of the Doblonda® and Rectonda® screens, it adds a straight wire in between several crimped wires.

Mediondа®: 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.

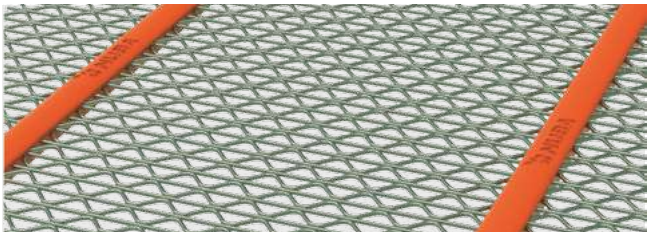
Multirecta®: Also called harp screen or piano wire. It has straight parallel wires, having the largest screening area with low precision. It is mainly used in end tension mobile screens to classify sands, gravel, and other dry materials.

Manufactured under the following standards:

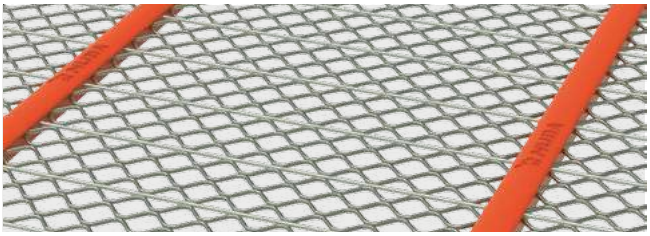
- High-Resistance Steel: UNE-EN-10270-1:2012
  ISO 8458-2:2002
  DIN 17223
- Stainless Steel: UNE-EN-10088-3:2008
  Stainless Steel Quality:
  Austenitic: AISI-304 / EN-1.4301
  AISI-316L / EN-1.4404
  AISI-310 / EN-1.4845
  Duplex: AISI-S32001 / EN-1.4482



Doblonda®



Rectonda®



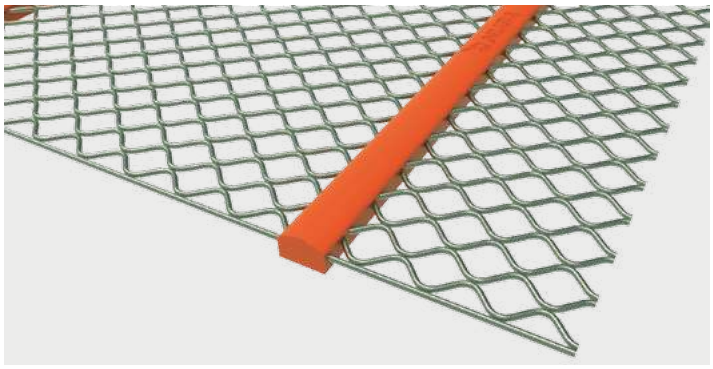
Doblorec®

Mediondа®

Multirecta®

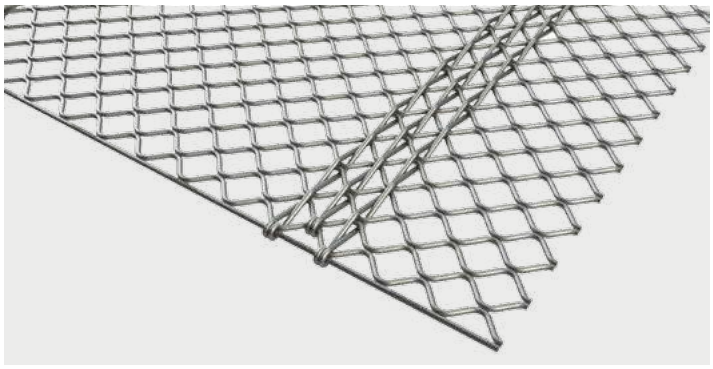
Cross band Types

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.



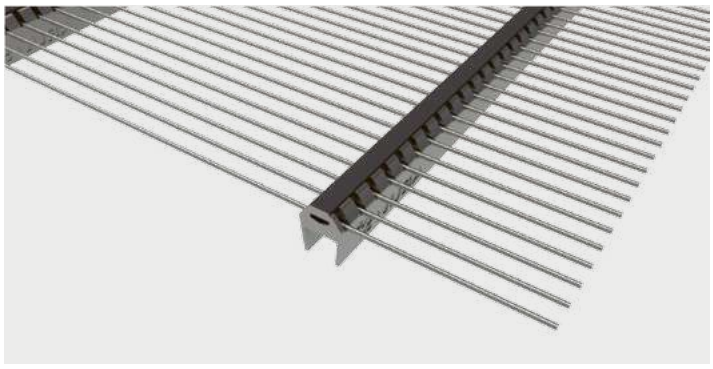
Polyurethane cross bands

- Polyurethane cross bands, generally made with 80º 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.



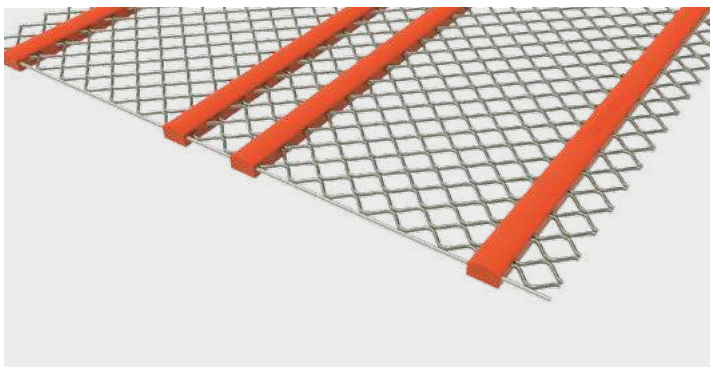
Steel wire cross bands

- Used in applications where temperatures exceed 70ºC.
- Highly recommended for asphalt plants.
- It is used in Doblonda® and Rectonda® screens.



Mobile cross band

- Mobile cross bands to fit any machine deck.
- Mainly used in mobile screening plants.
- Only used on Multirecta® screens.



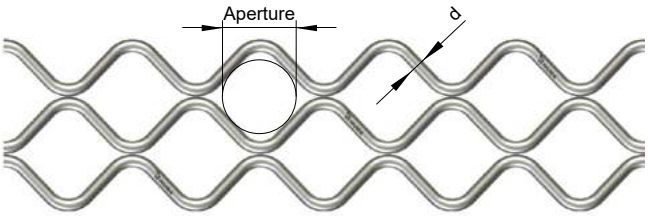
Area between cross bands

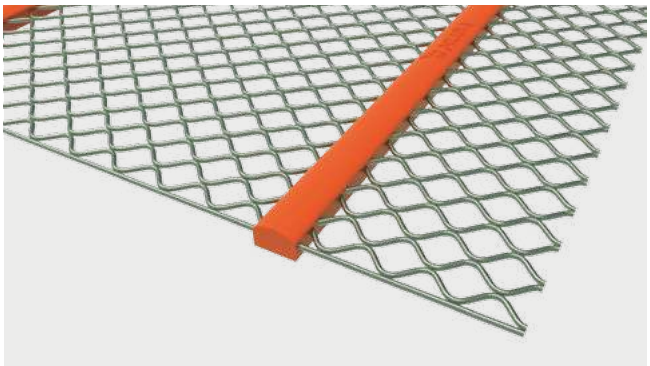
- When the mesh has a central fixation, a blind area is left between polyurethane cross bands. This blind area allows for the installation of a central hold-down bar, so that the screws do not damage the wires.

Self-cleaning Screen
Doblonda® 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.

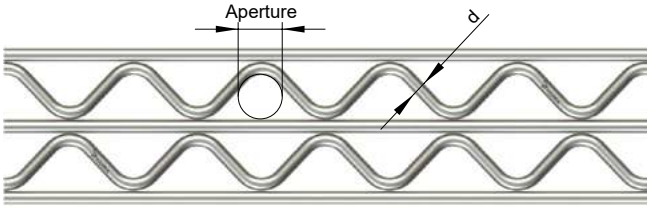


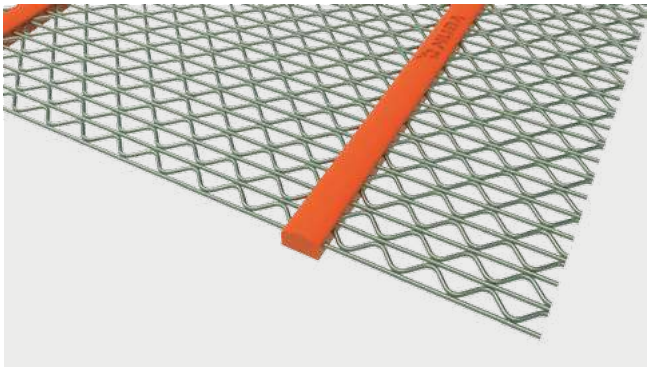


Self-cleaning Screen
Rectonda® Type

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.

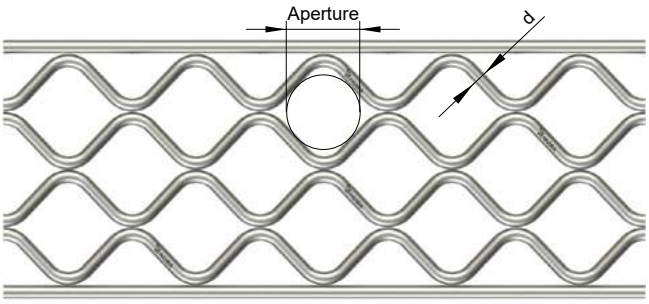


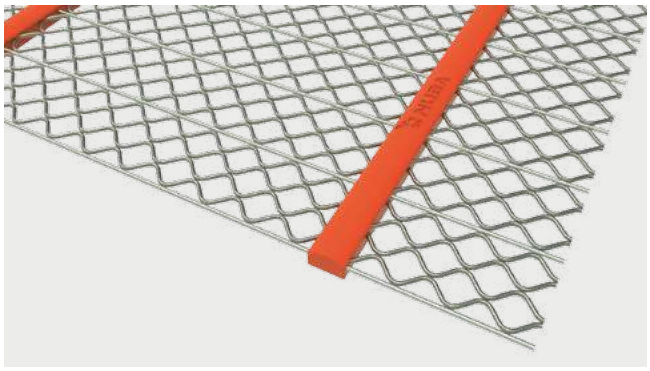


Self-cleaning Screen
Doblorec® Type

Characteristics

- It is a combination of Doblonda® and Rectonda® screens.
- It is used when more precision is required at a maximum production output.

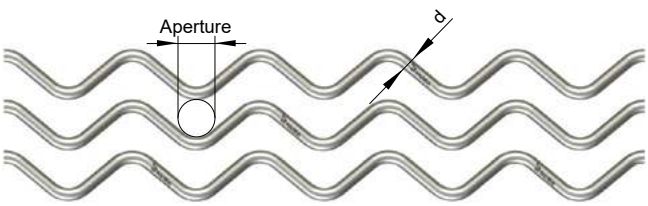


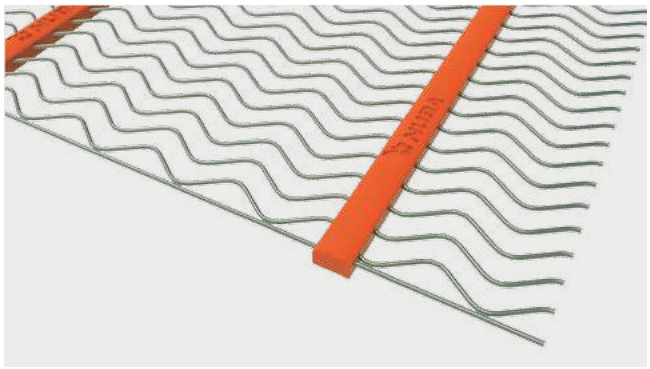


Self-cleaning Screen
Medionda® Type

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.



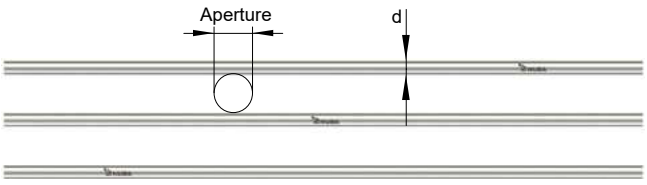


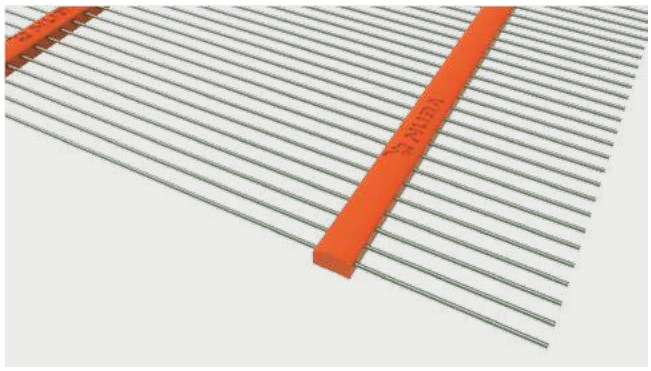
Self-cleaning Screen

Multirecta® Type

Characteristics

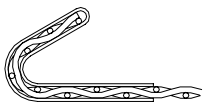
- The Multirecta® screens, normally called Harp screen or Piano wire, have straight parallel wires, separated with cross bands to obtain the correct aperture size.
- Distances between these cross bands can be much higher than in the other self-cleaning screens.
- Their high screening area is perfect 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.



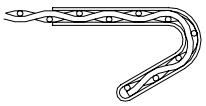


Hook types

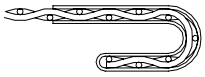
TYPE 1



TYPE 1 - BIS



TYPE 2



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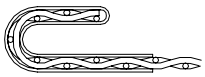
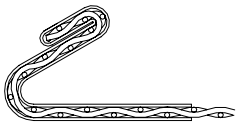


TYPE 4

TYPE 8

TYPE 10



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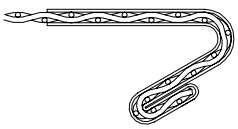
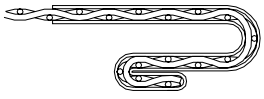


TYPE 11



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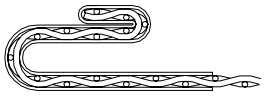
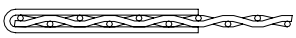


TYPE 13

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