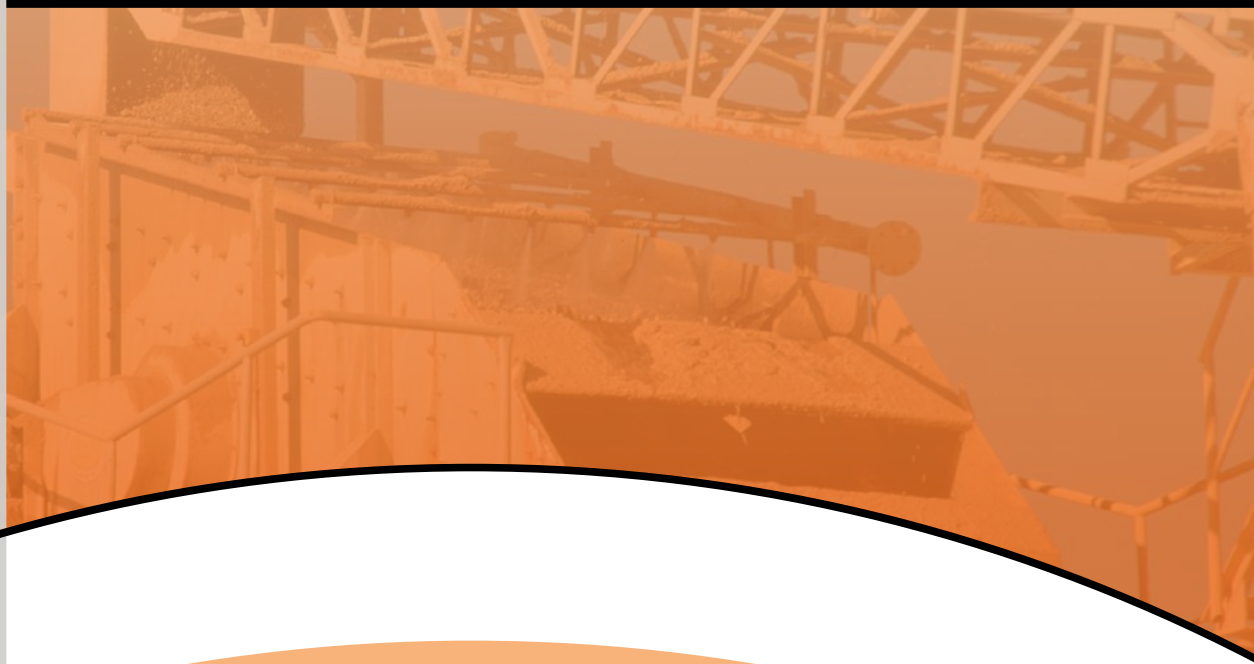
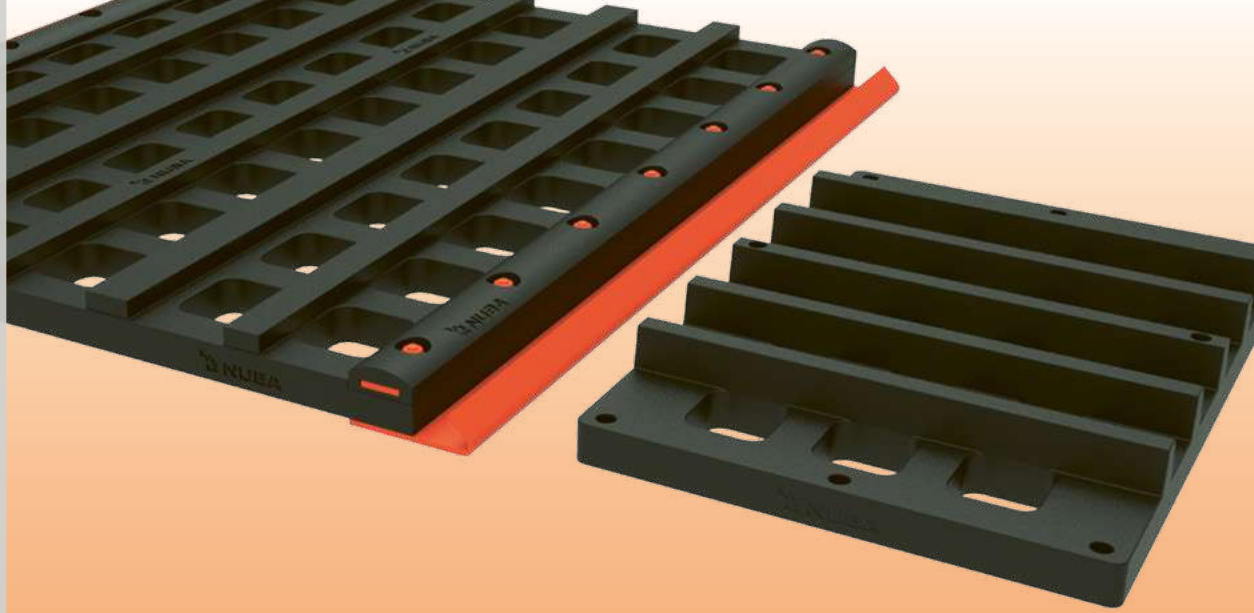


Rubber Screens



Screening
Media

7

 **NUBA**
Screening Media

 **NUBA**
Technical Advice



Rubber Screens

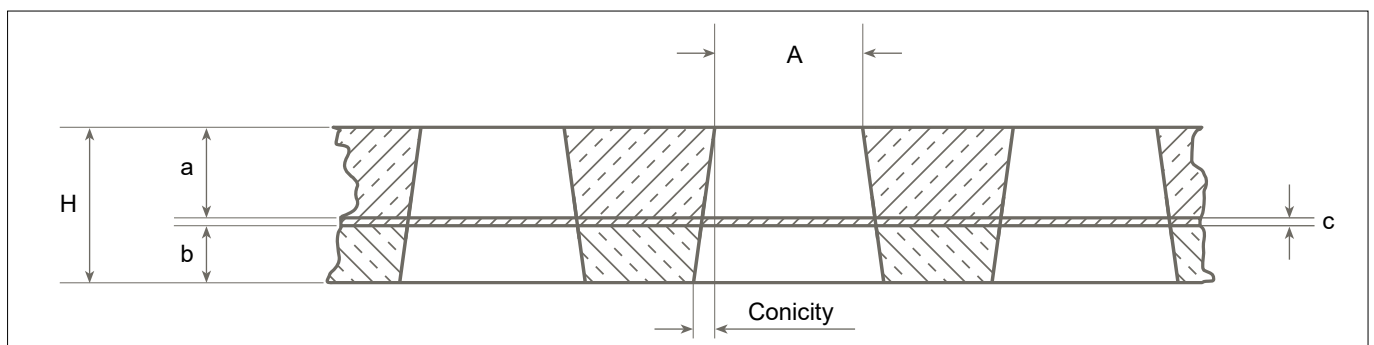
Rubber has very good properties for abrasive resistance and impact resistance as well as noise reduction, which makes it a great product for pre-screening or scalping, especially when screening materials with high percentage of large rocks or significant drop height.

As polyurethane screens, they have conical apertures, making screening faster and more efficient.

They come as Side Tension Screens, Flat Panels (reinforced with steel) and Modular systems.

Applications

- For all it is great qualities It is highly recommended in pre-screensers and primary screens.
- It is use is also recommended when the screening surface is enough for the production required.
- Long wear life in wet and dry applications.
- Easy to install.
- Minimum obstruction for its conical and flexible apertures.
- Noise suppression.



A = Aperture (Square, round and rectangular).

H = Total Thickness, depends on aperture size and work load.

a = 2/3 of H, abrasion resistance rubber, 65° Shore A hardness (Workface).

b = 1/3 of H, rubber at 85° Shore A hardness (Support face).

c = Polyester fabric EP-160 or special Cord fabric.

Characteristics

- Quality: Abrasion resistance.
- Color: black.
- Flat Surface
- Noise reduction.

Rubber Screens

Tension Rubber Screens

They are used in End Tension or Side Tension Screens, custom made to fit each deck, leaving blind areas to match the decks' support bars. This will avoid unnecessary pegging or blinding in these areas and will extend the machines' and the screens' service life.

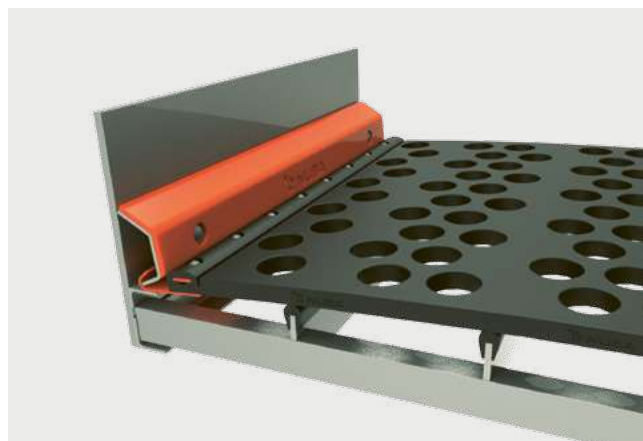
Manufactured under the following standards:

Workface:

- Hardness (°Shore) > 65 (ISO 868)
- Density (g/cm³) 1,10 - 1,30 (ISO 2781 / UNE 53526)
- Tensile strength (Kg/cm²) > 135 (ISO 37 / UNE 53510)
- Elongation break (%) > 250 (ISO 37 / UNE 53510)
- Abrasion resistance (mm³) < 120 (ISO 4649 / UNE 53527)

Support face:

- Hardness (°Shore) > 85 (ISO 868)
- Density (g/cm³) 1,45 - 1,35 (ISO 2781 / UNE 53526)
- Tensile strength (Kg/cm²) > 80 (ISO 37 / UNE 53510)
- Elongation break (%) > 250 (ISO 37 / UNE 53510)



With PU or Rubber Hook Profiles



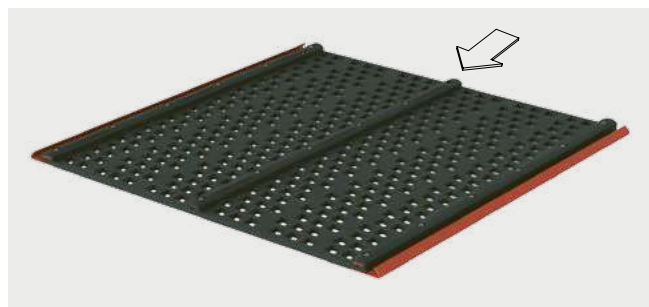
Screen with Rubber Rider Bars



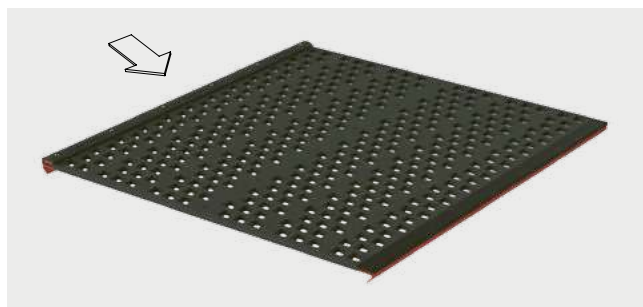
Screen with rubber reinforcement



Side Tension Screen



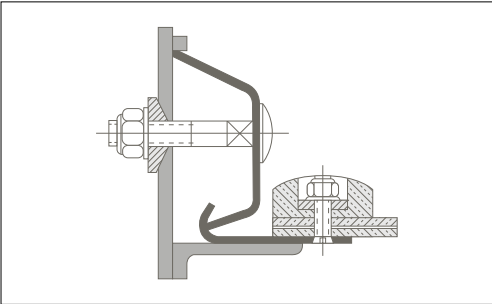
End Tension Screen



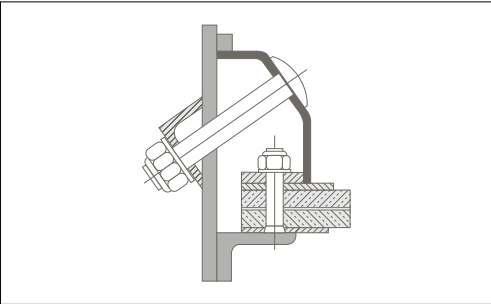
Tension types

Side Tension

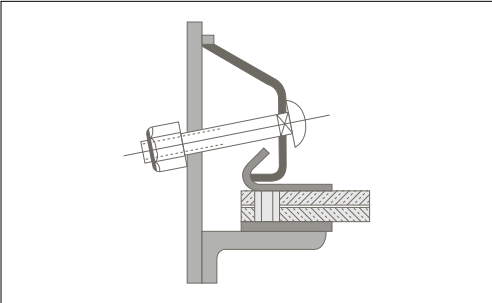
Type M-1



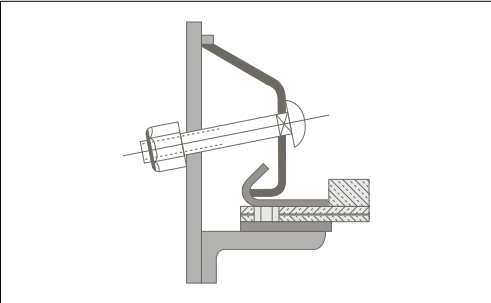
Type M-2



Type M-4

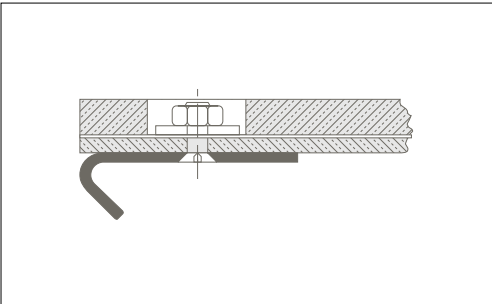


Type M-4 Reduced

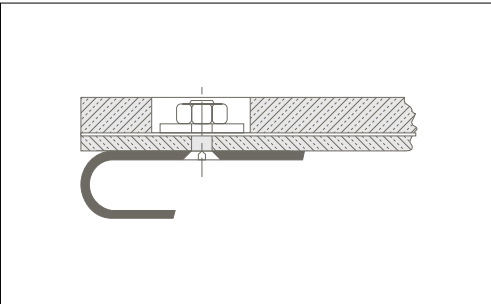


End Tension

Type 1

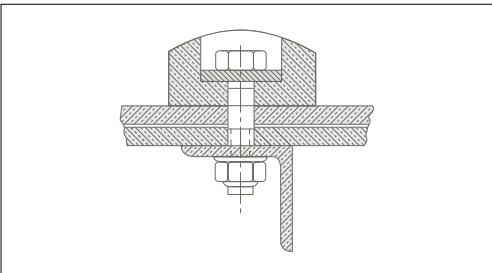


Type 2



Hook reinforcement profile or Central Hold-Down Bar

Superior 60x35



Modular Rubber Screens

Flat Screen panels with metallic reinforcement.

They are normally bolt-down panels, but there are other systems that lock the panel in place without the use of bolts or other accessories.

There are different types of metallic reinforcements that will vary the panels' performance considering heavy loads, impact resistance and flexibility. Other types of reinforcements can also be added such as Rider Bars which protect the working surface and expand the panels wear life also channeling the material towards the screens apertures.

Light Frame Rubber Screen

Hot vulcanized rubber on light-weight metal frame (steel flat-bar profile). Thickness from 15 to 100 mm (**Fig. A**).

Reinforced Frame Rubber Screen

Hot vulcanized rubber on reinforced metal frame (Steel L Profile). Thickness from 30 to 100 mm (**Fig. B**).

Rubber Screen on perforated plate

Hot vulcanized rubber on perforated steel plate. Thickness from 20 to 100mm (**Fig. C**).

Cord Rubber Screen

Hot vulcanized rubber with Rider Bars and internal steel structure. (**Fig. D**).

Manufactured under the following standards:

Workface:

- Hardness (°Shore) > 65 (ISO 868)
- Density (g/cm^3) $1,20 \pm 0,02$ (ISO 2781 / UNE 53526)
- Tensile strength (Kg/cm^2) >125 (ISO 37 / UNE 53510)
- Elongation break (%) > 300 (ISO 37 / UNE 53510)
- Abrasion resistance (%) < 180 (ISO 4649 / UNE 53527)
- Tear strength (Kg/cm) > 35 (ISO 34-1)
- Adherence rubber/steel (kg/cm^2) 80

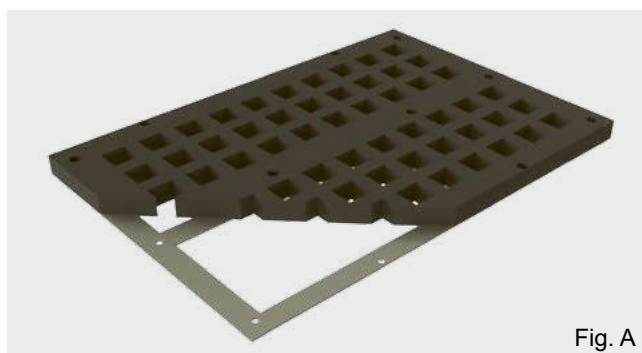
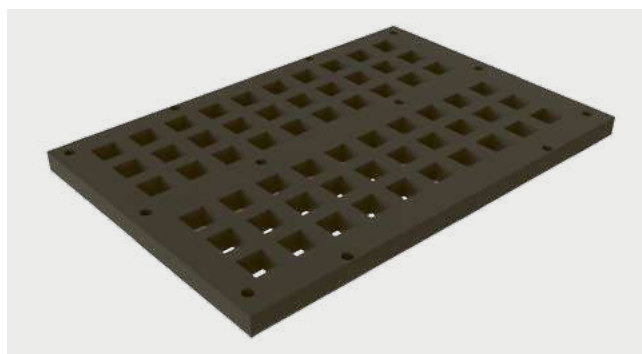
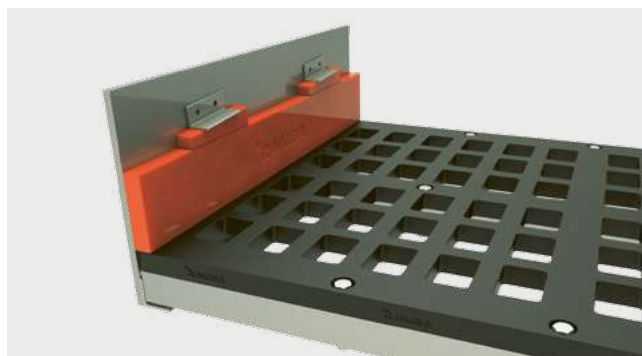


Fig. A

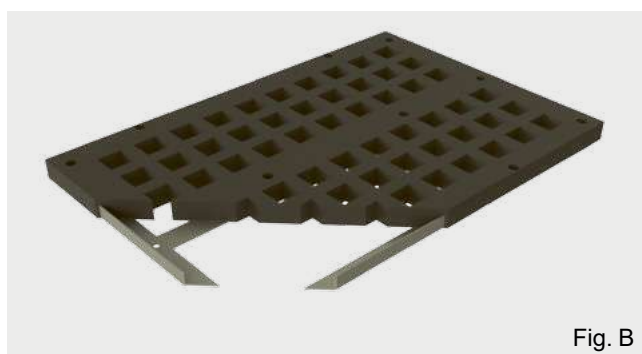


Fig. B

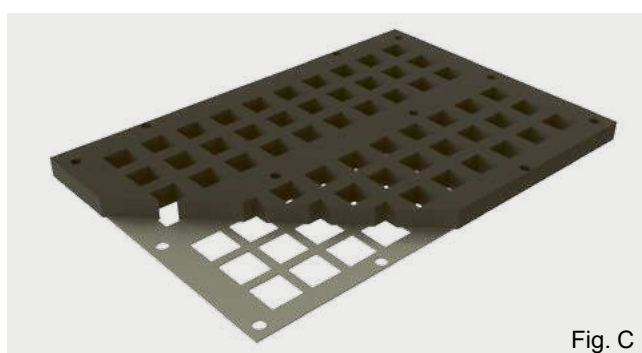


Fig. C

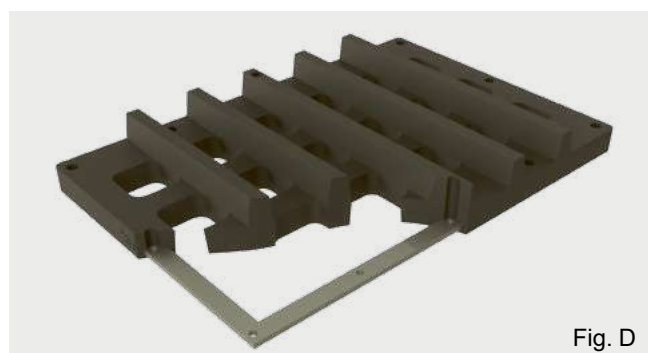
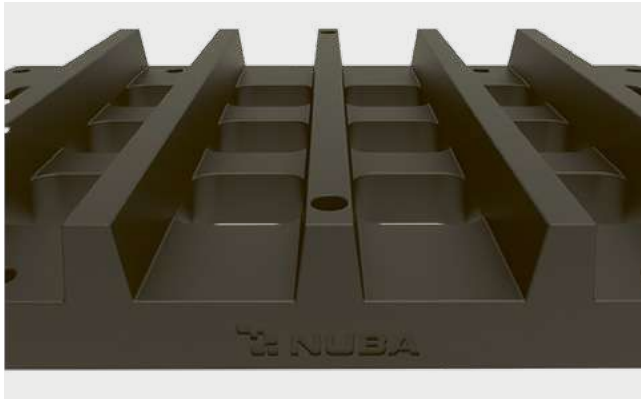


Fig. D

Cord Rubber is manufactured with a special abrasion resistant rubber and steel structure reinforcement, bonded together in a hot vulcanizing process, leaving the steel structure fully encapsulated in the rubber panel.

Due to its elastic and wear-resistant properties, rubber absorbs impact and resists abrasion and tearing, while steel provides the mechanical strength that reinforces the panel.



Tapered holes reduce the blockage and blinding of the screen. The *Rider Bars* not only increases service life, but also helps in the stratification process of the screened material, allowing the bigger stones to stay above the near size particles, thus increasing screening efficiency.

Applications	
Scalping, primary and secondary screening	
Product Range	
Cord Rubber panel size: width 1800mm (Max.) length 1200mm (Max.)	
Aperture Size range: from 6mm to 150mm	
Characteristics	Benefits
Superior Rubber Compound	Extended Wear Life, reduced Cost per Ton
Rider Bars	Extended Wear Life
Steel Reinforcement	Self Supporting
Hot Vulcanized	Increased Screening Efficiency

Fixing Profiles for Modular Flat Panel Screens

Rubber tensioners that protect the sides of the machine.

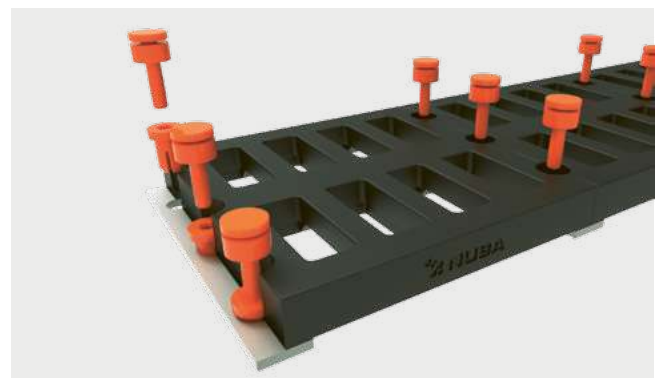
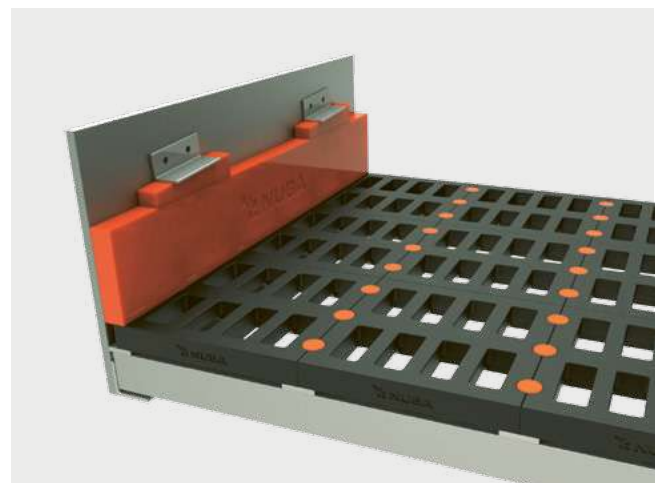


Modular Rubber Screens Pin & Sleeve

Characteristics

In this system panels are fitted with polyurethane pins and sleeves to the frame of the screens' deck.

The panels are manufactured following the same quality standards as the modular rubber flat screen systems.

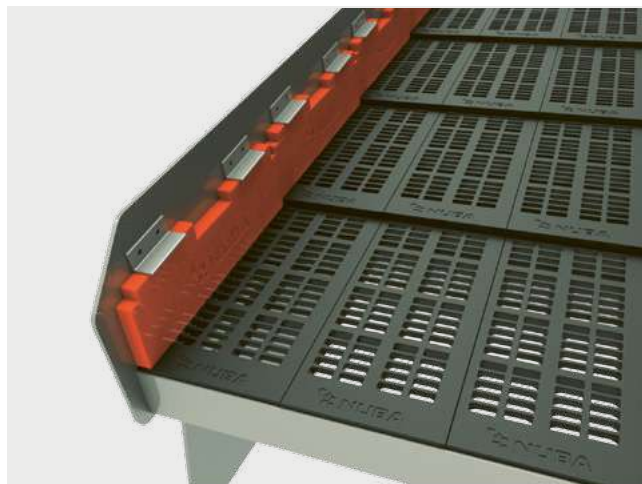


Modular Rubber Screens

Cascade

Characteristics

It is a Snap-On panel that fits on a special L shaped metallic profile. The panels are placed overlapping each other creating a cascade effect which rotates the material as it flows through the deck, to give the material particles more options to be screened.



Modular Rubber Screens

Combined Rubber / PU

Characteristics

Modular Rubber Screens with PU Frame are used for pre-screening or primary screening of coarse sharp aggregates, it's well known that rubber is a great material for screening these kinds of aggregates, having rubber with a PU frame allows us to adapt rubber screens to our INDALO modular system.



Rubber

Trommel Rubber Screens

Characteristics

Trommel Screens have a cylindrical or conical construction, with an external metallic structure; they are provided with Curved Rubber Sheet panels with steel reinforcement, normally with round apertures and bolted to the metallic frame.

They are usually installed at a 10 – 20° inclination, to favor the flow of the material by gravity. In many cases, the Rubber Panels are supplied with Scroll Bars or Weir Bars to increase or decrease the pulp flow.

They can rotate around a central axis, although the most common trommels are driven by external pneumatic wheels.

Applications

- Construction and demolition waste CDW.
- Urban waste.
- Glass recycling.
- Scrap metal recycling.
- Compost facilities.
- Biomass.

