

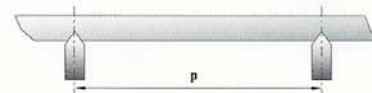
3. Trislot® welded screens

Trislot® welded screens are directly produced as a flat screen. This avoids the chance of stress corrosion and the weakening of the welds, which does occur with opening and flattening slottubes (this is the normal way to manufacture flat screens).

For special applications welded screens can be made out of slottube. The Trislot® welded screens are available in very light constructions (115/Q25) as well as more robust forms (50S/50x3) and can be provided with the necessary frame and/or reinforcements.

Standard constructions ⁽¹⁾

Profile	Support wires	Min. Slot in mm	Standard pitch in mm ⁽²⁾ (P)
115	Q25	0.03	17/22
125	Q25/Q35	0.03	17/22
	10x3	0.1	17/25
185	Q35	0.05	17/25
	Q35/10x3/25x3	0.1	25/70
225	Q35	0.05	17/25
	Q35/10x3 till 50x3	0.12	25/70
285	Q35/10x3 till 50x3	0.15	17/25/70
345	Q35/10x3 till 50x3	0.15	17/25/70
425	Q35/10x3 till 50x3	0.15	17/25/70
50S	10x3 till 50x3	0.15	70



- (1) Special executions are possible on request
 (2) In most cases all pitches are possible

Maximum dimensions

	max. surface Profile length	Max. support Profile length
Pitch 17 mm/Profile Q25	810 mm	2000 mm
Pitch 17 & 25 mm/Profile Q35	3000 mm	3000 mm
Pitch 22 mm	710 mm	1700 mm
Pitch ≥ 70 mm	3000 mm ⁽³⁾	3500 mm

(3) Depending on pitch

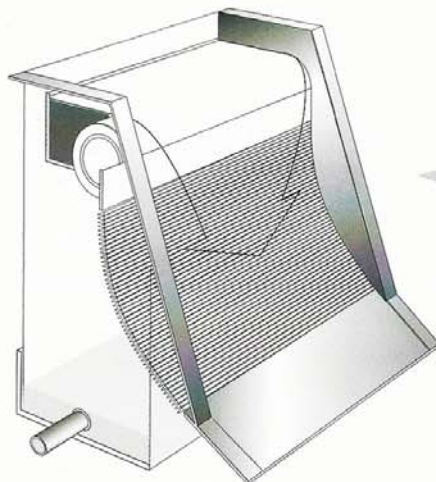
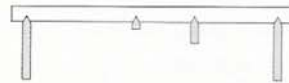
Standard tolerances

Slotopening	± 0.050 mm (max.: ± 0.1 mm)	
Flatness	5 mm/meter	
Length and width	≤ 500 mm	± 2 mm
	$> 500 \leq 1500$ mm	± 3 mm
	> 1500 mm	± 4 mm

Tighter tolerances are possible on request through the application of special techniques.

Special constructions

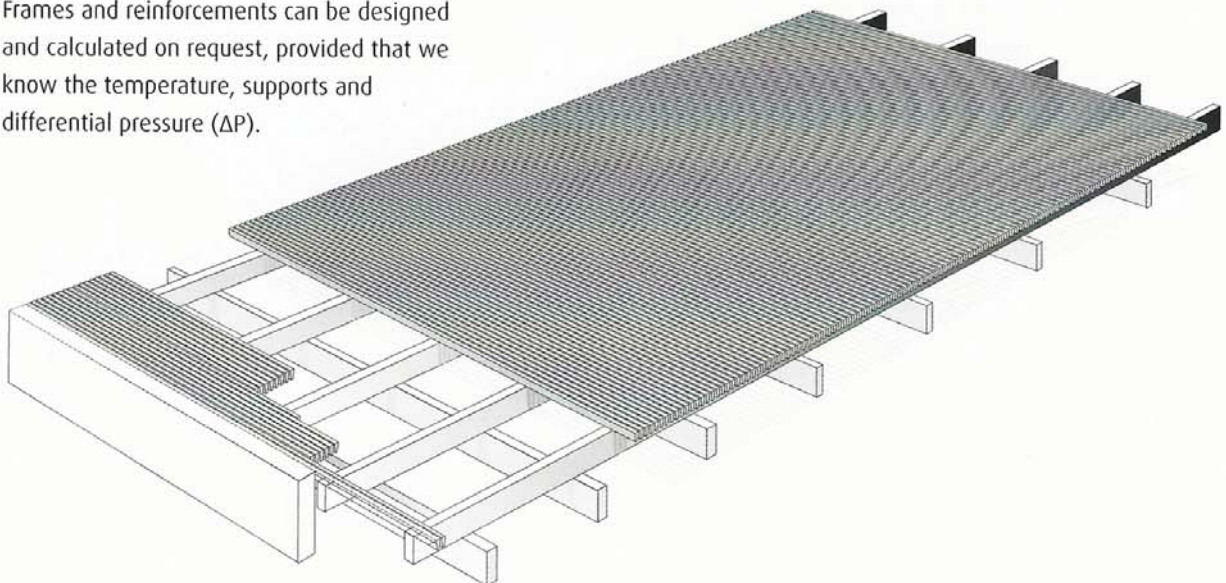
- A combination of different support profiles and pitches within one flat screen is possible



← CURVED SCREEN

- Curved screens; curve direction and filtration direction are to be determined by the customer.

- Frames and reinforcements can be designed and calculated on request, provided that we know the temperature, supports and differential pressure (ΔP).



Cylinders, conical baskets and reverse rolled slot tubes

Cylinders and conical baskets (conical shape) are manufactured out of one or more flat screens that are rolled and welded. Also slottubes can be used for this purpose after opening and flattening the elements.

The standard construction is as follows: slot direction is axial and the filtration direction is from the inside towards the outside (smooth surface is at the inside and support profiles are at the outside). Slot direction can be configured radial if requested. This is called a reverse rolled slot tube.



Technical information

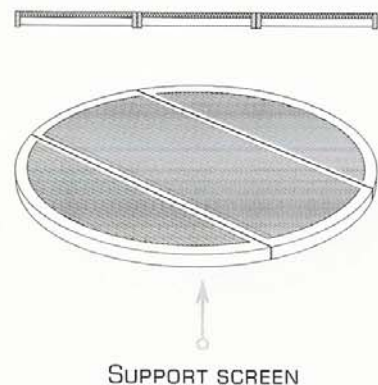
- minimum cylinder diameter = 25 mm depending on the profile combination and construction
- maximum diameter = unlimited
- slotopening: see flat screens, slottubes

Applications

Trislot® welded screens can be used as flat filters or processed to make cylinders.

Flat screens

- **Static sieves for dewatering or classification:** the screen is set up at a certain angle or is curved so that the surface profiles are perpendicular to the filtration direction. Through gravitation the slurry flows over the screen.
- **Vibrating screens, dryers and coolers:** screens used as support for the product that has to be treated.
- **Band filters:** screen as support for paper or textile, for example for the separation of cutting oil.
- **Support screens:** in this application, the screens are assembled inside vessels to support catalyst, active carbon, resin, molecular sieve ...



Cylinders and baskets

- Drum screen with or without internal transport screw
- Screw presses
- Centrifuge baskets and cylinders for the food and paper & pulp industry
- ...