

SERTIS

STATIC SIEVE

PRINCIPLE

Static sieves **SERTIS** allow a tangential filtering, which presents many hydrodynamic advantages.

In these apparatuses, the filtering titled grid consists of triangular section wires horizontally laid out. Space between wires is selected according to the degree of filtration required and can vary from 0,25 to 1,5 mm.

The liquid flow arrives by a higher outfall: it takes initially a certain speed while passing on a full sheet, then arrives on the filtering panel.

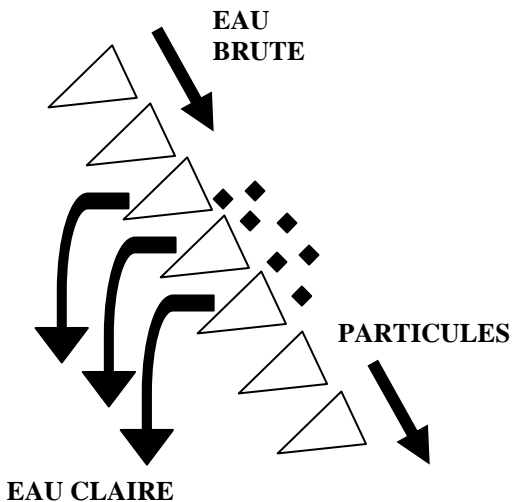
Under the effect of the kinetic energy acquired in the first part of the descent, the solid particles tend to descend "straight", while water does not have any difficulty "of taking a turn with 90°" to cross the grid.

It is what is known as the effect of "tangential filtration", in opposition to normal filtration where the flow and the particles contained in it appear perpendicular to the filtering surface.

This technique allows, better than others, to separate fragile and soft particles such as:

- Curdled cheese fines
- Mud of urban stations
- etc.

We can find this effect of tangential flow in our internal trommel sieves **SERTROM**.



DESIGN FEATURES

In the standard model, the casing is made of 304 stainless steel 3 mm thickness sheet.

The water input in this feeding case is done either from the top or from the side depending on the cases. The filtered water, collected in the lower part, leaves directly under the casing or by a side.

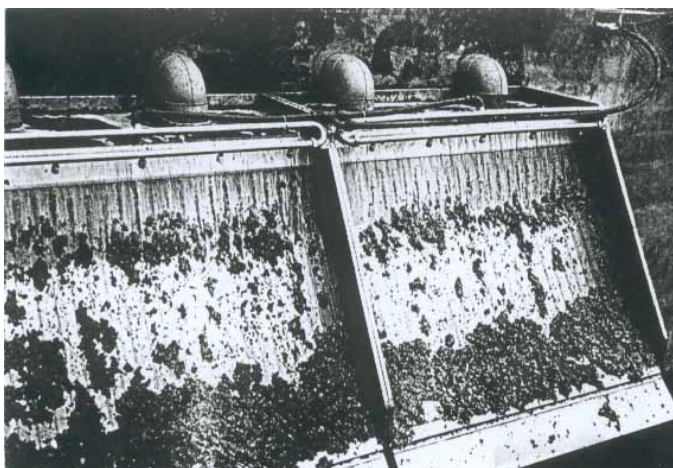
The grid, always out of AISI 304 steel, is folded into 2 or 3 slopes depending on the application. It is assembled on a flat iron frame, which can topple over to 180° to allow a thorough cleaning.

Basic standard cleaning is carried out by 2 slopes of jets, which have to be fed with water under a pressure of 3 bars.

Mechanic systems of cleaning can be assembled upon request.

In the case of very charged water, a compactor with screw **SERCOMP** can be coupled with this sieve to dry the refusal of cleaning and to decrease their volume.

FLOW RATES: (for a 1 m in width grid, and for clear water)



DIMENSIONS :

MODELS	GRID LENGTH mm	A	WEIGHT kg
SERTIS 05	500	580	152
SERTIS 10	1000	1080	212
SERTIS 15	1500	1580	292
SERTIS 20	2000	2080	331

