

Flat-top surface

What to use GIRON flat top surface for?

The service life of steel woven-wire screens is, by considering a same wire diameter, directly linked to the quantity of raw material to wear out without modifying the mesh and relaxing the wires network.

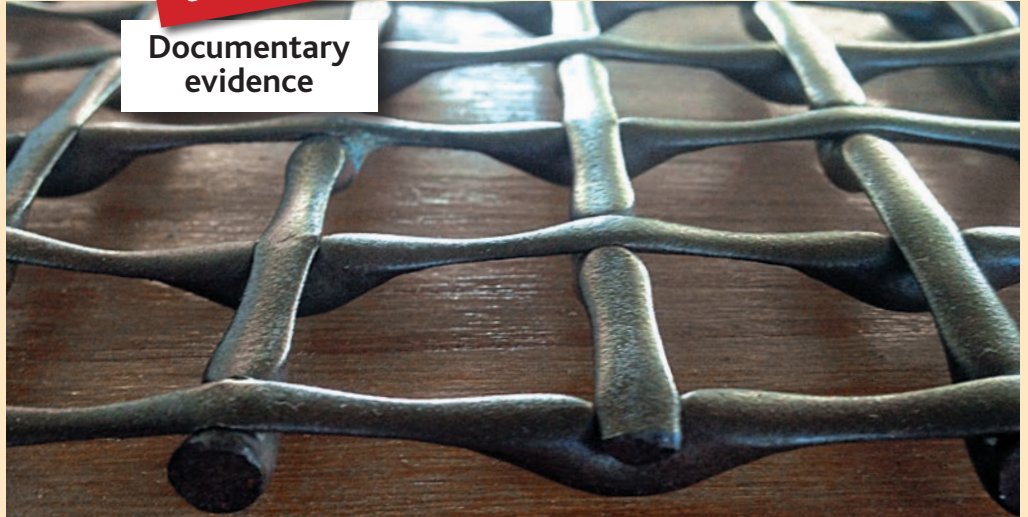
Use the GIRON flat-top surface, it is the warranty to reach :

+30% of service life

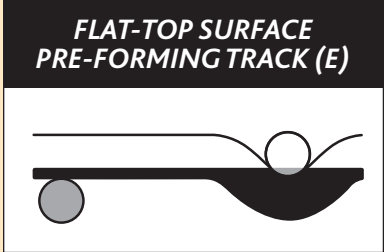


+30% of service life

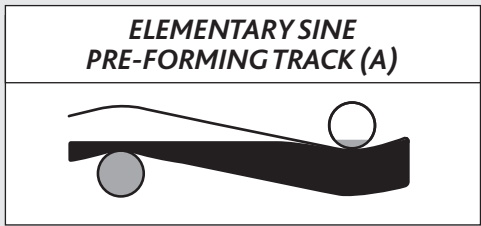
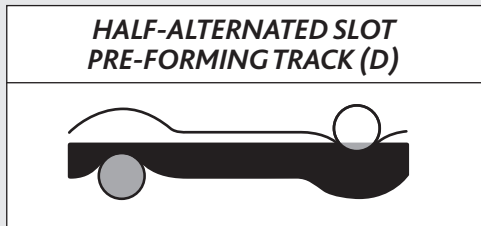
With the flat-top surface, the aggregate does not strike any obstacles except the mesh; friction wear sliding effect.



Documentary evidence



With any other pre-forming track, the undulation's heads are in the way of the aggregate, so, the wires wear out quicker. Impact + friction wear effect.



BUT IN THE END, WHAT THE +30% SERVICE LIFE REPRESENTS FOR OUR CUSTOMERS?

For example, let us take the case of a customer working with :

- a 12 sqm two decks screening machine, producing 120 tph of upgraded aggregates
- equipped with 4 screens per deck, meaning 8 screens at 300€ purchasing cost per unit
- getting a 240 000 tons yearly production of upgraded aggregates
- normal consumption of 4 sets/year/deck, meaning the purchase of 32 screens annually
- average market value of considered upgraded aggregates (crushed limestone) ≈ 12€/T

Benefits details here-behind

1 - COST-SAVINGS FOR PURCHASING DEPARTMENT

Cost-saving for the purchasing department is evidenced by the reduction of required screens quantity to upgrade a same aggregate volume. In our example here-above, the financial gain represents **-25% on the screens budget** only by using the GIRON flat-top surface.

ELEMENTARY SINE PRE-FORMING TRACK (A)

Screen's service life = 240 000 Tons / 4 sets = 60 000 Tons of upgraded aggregates before stopping production to change the screens

Annual purchase cost: $32 \times 300\text{€} = 9\ 600\text{€}$

GIRON FLAT-TOP SURFACE PRE-FORMING TECHNOLOGY (E)

GIRON flat-top screen's service life = 60 000 Tons +30% = 78 000 Tons of upgraded aggregates before stopping production, Meaning 240 000T / 78 000T = 3 sets

Annual purchase cost: $3 \times 8 \times 300\text{€} = 7\ 200\text{€}$ €

-25% cost-saving

2 - BENEFITS IN TERMS OF SCREENING MACHINE PROFITABILITY

An important point for our customers is to maximize the production cost-efficiency. This is evidenced by reducing the aggregate production cost per ton upgraded. In our example here-above, the cost-effectiveness represents **-25% on the Euro per produced ton, and avoid 1 production stop = profitable additional upgraded aggregates of 960 tons.**

ELEMENTARY SINE PRE-FORMING TRACK (A)

Annual purchase cost: $32 \times 300\text{€} = 9\ 600\text{€}$

→ $9\ 600\text{€}$ for 240 000T production = 0.04€/ton

→ 4 mountings/removing per year, meaning 2 technicians for 4h per deck, equivalent to 64h per year only for removing the screens

GIRON FLAT-TOP SURFACE PRE-FORMING TECHNOLOGY (E)

Annual purchase cost: $3 \times 8 \times 300\text{€} = 7\ 200\text{€}$

→ $7\ 200\text{€}$ for 240 000T production = 0.03€/T

-25% production cost-saving directly imputable to screens efficiency

→ 3 change of screens' set a year, meaning 2 technicians for 4h per deck equivalent to 48 hours per year only for removing the screens. So, 8 hour-savings of screening machine maintenance

-25% maintenance time-saving

and above 8 hours dedicated to production instead of maintenance: $8 \times 120\text{ tph} = 960\text{ tons}$ upgraded aggregates ready to sell meaning

+0.4% of profitability

3 - ADDITIONAL PROFITS DUE TO SALES GROWTH

In our example, taking into account the screen's service life for a same purchase price, the gain represents a **sales growth of more than 200 000 Euros.** This additional turn-over can only be obtained by producing with flat-top surface. Even an extreme low purchase cost cannot reach the benefits of the potential sales growth.

ELEMENTARY SINE PRE-FORMING TRACK (A)

Purchase cost to fully equip the screening machine: $8 \times 300\text{€} = 2400\text{€}$

Before the total wear of the screens, the screening machine will produce 60 000 tons of upgraded aggregates

→ Potential sales growth for the customer: $60\ 000\text{ Tons} \times 12\text{€/T} = 720\ 000\text{€€}$

GIRON FLAT-TOP SURFACE PRE-FORMING TECHNOLOGY (E)

Before the total wear of the screens, the screening machine will produce 30% more, meaning 78000 tons of upgraded aggregates

→ Potential sales growth for the customer: $78\ 000\text{ Tons} \times 12\text{€/T} = 936\ 000\text{€€}$

+30% "free production" to sales growth

THE GIRON FLAT-TOP SURFACE - THE WARRANTY OF SAVING MONEY