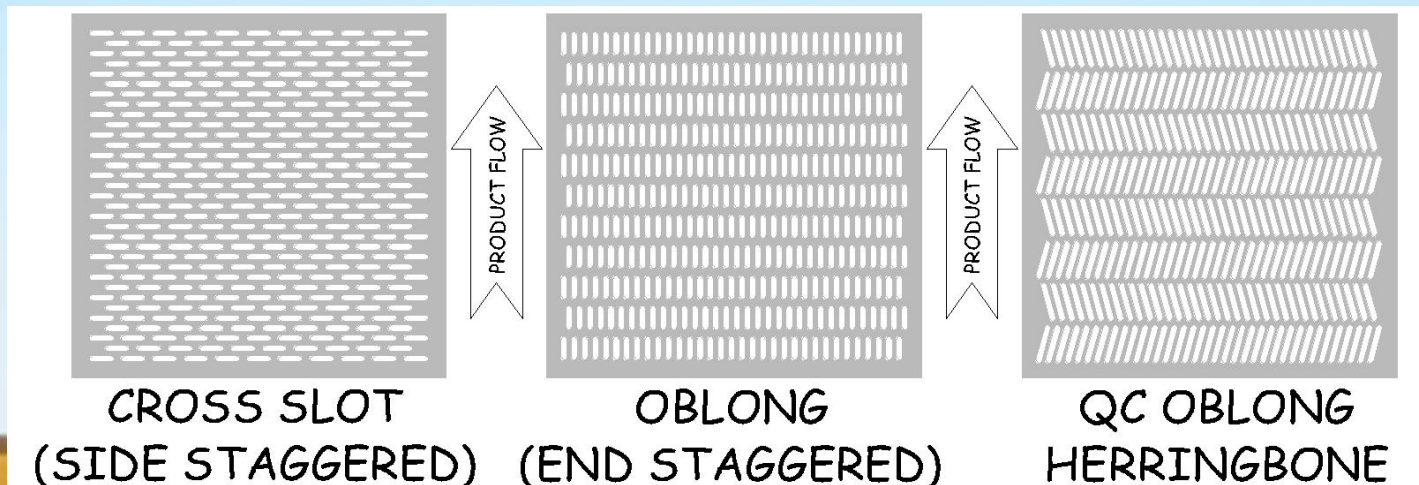




# HERRINGBONE

QC Screen Company introduced their QC Herringbone perforation while working with our customers back in early 2003. QC Herringbone is a high performance screen pattern that removes a greater percentage of split beans from whole beans. This innovative design incorporates a herringbone pattern with slotted holes strategically angled to tip and drop split beans through the openings.

Historically, cross-slot or parallel-slot patterns have been used to remove splits from beans. In most cases, the split bean width is greater than the width of the perforated opening and the hope is that the split beans will rotate during product flow and sift out. This kind of cleaning based upon 'hope' can allow split beans to span the opening and remain in the whole bean product flow.



With the QC Herringbone pattern, it is difficult for the split bean to span the opening since it traverses the opening at an angle. The angled perforated slot helps tip and drop the split beans through the opening. In addition to the herringbone pattern, the length of the slot has been increased from  $\frac{3}{4}$ " to  $1\frac{1}{4}$ " providing a greater amount of open area which has proven to increase screening efficiency.

In independent tests performed on soybeans and edible beans, QC Herringbone pattern out performed cross-slots and parallel-slots consistently by 8 - 15%. Performance will vary depending on variety and size of product. It has been noted the herringbone pattern works extremely well on fresh split beans that have part of the skin attached and projects beyond the body of the split.

QC Herringbone patterns are available in the following sizes:

8/64x1 $\frac{1}{4}$	8.5/64x1 $\frac{1}{4}$	9/64x1 $\frac{1}{4}$	9.5/64x1 $\frac{1}{4}$	10/64x1 $\frac{1}{4}$	10.5/64x1 $\frac{1}{4}$	11/64x1 $\frac{1}{4}$
11.5/64x1 $\frac{1}{4}$	12/64x1 $\frac{1}{4}$	12.5/64x1 $\frac{1}{4}$	13/64x1 $\frac{1}{4}$	13.5/64x1 $\frac{1}{4}$	14/64x1 $\frac{1}{4}$	15/64x1 $\frac{1}{4}$

The herringbone pattern has also been utilized in forage scalping applications for removal of long trashy foreign material with exceptionally results. The herringbone pattern is also available in several small size perforations.

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