

COMMON VIBRATING SCREEN APPLICATIONS

SCALPING SCREEN

A vibrating screen used to remove a small amount of oversize from a feed which is predominantly finer without regard for finished product sizes.

SIZING SCREEN (Dry or Wet)

A vibrating screen used to produce material sizes that meet specifications in a particular range of sizes. Usually expected to perform at a high and constant rate of efficiency.

WASHING SCREEN

A vibrating screen equipped so that water can be sprayed on the material. Normally water is used to clean material and/or assist in the sizing.

DEWATERING SCREEN

A vibrating screen used to remove liquid from material.

RESCREEN SCREEN (Dry or Wet)

A vibrating screen used dry or wet to remove fines or contaminants from previously screened material. Often called dedusting screen (dry) desliming screen (wet) or a polishing screen.

EXAMPLE

CALCULATING SCREEN AREA

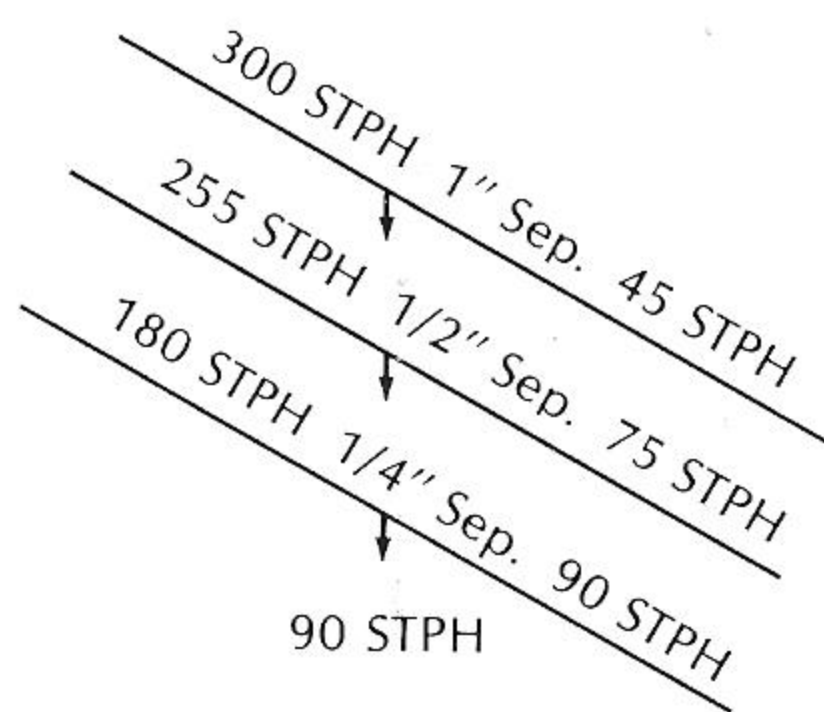
Application Details from Screen Questionnaire

Material Crushed Limestone
 Weight..... 100 lbs. ft.³
 Feed Rate..... 300 STPH
 Separations Required 1", 1/2", 1/4"
 Type of Screen Inclined Triple Deck

Sieve Analysis of Feed to Screen

Opening	Cumulative Passing	STPH Passing
2"	100%	300 STPH
1-1/4"	91%	273 STPH
1"	85%	255 STPH
3/4"	70%	210 STPH
1/2"	60%	180 STPH
3/8"	45%	135 STPH
1/4"	30%	90 STPH
3/16"	22%	66 STPH
1/8"	15%	45 STPH
#10	6%	18 STPH

Feed Distribution
per Sieve Analysis



Formula:

$$U = \frac{1}{A \times B \times C \times D \times E \times F \times G \times H \times J}$$