

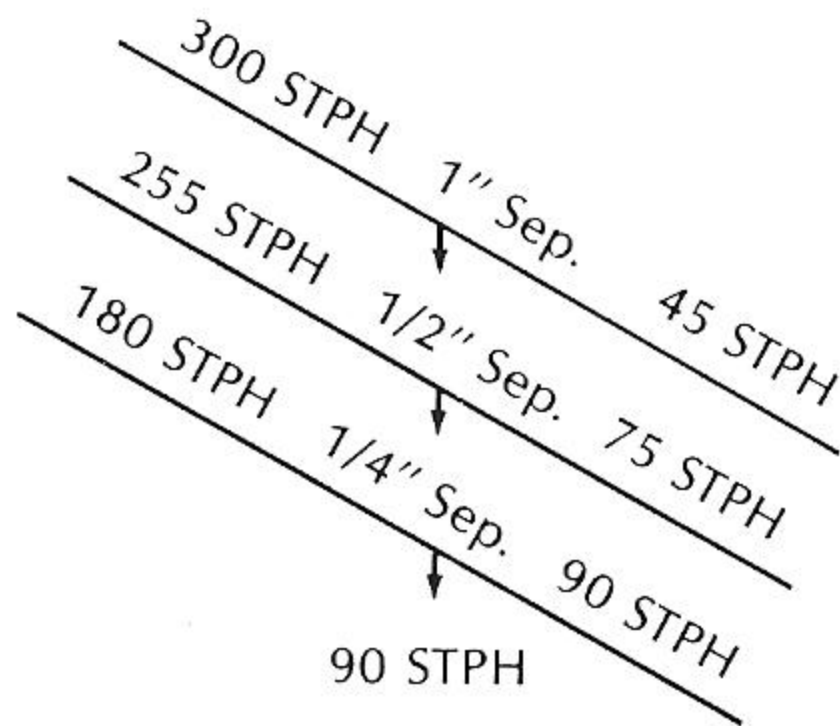
EXAMPLE

CALCULATIONS FOR THIRD DECK

Theoretical Sieve Analysis of Feed to 3rd Deck

Opening	Cumulative % Passing	STPH Passing	Conditions for Third Deck
1/2"	100%	180 STPH	Feed to 3rd Deck = 180 STPH
3/8"	75%	135 STPH	Factor "A" (for 1/4") = 1.60
1/4"	50%	90 STPH	Factor "B" (for + 1/4") = .79 90 STPH = 50%
3/16"	37%	66 STPH	Factor "C" (for - 1/8") = .70 45 STPH = 25%
1/8"	25%	45 STPH	
#10	10%	18 STPH	Factor "D" for 3rd Deck = .8
			Factor "E" (Dry Screening) = 1.00
			Factor "F" (100 lbs. cu. ft.) = 1.00
			Factor "G" (46% Surface O.A.) = 1.00
			Factor "H" (Square Opening) = 1.00
			Factor "J" (90% Efficiency) = 1.15

Feed Distribution per Sieve Analysis

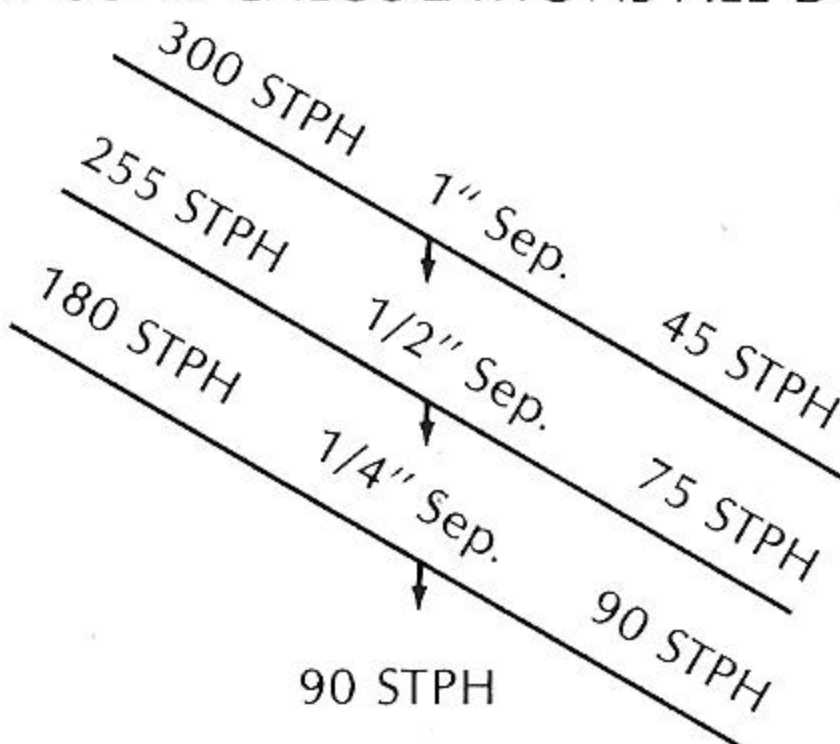


$$\text{Area } 1/4" \text{ Separation} = \frac{90}{1.6 \times .79 \times .70 \times .80 \times 1.00 \times 1.00 \times 1.00 \times 1.00 \times 1.15} = \frac{90}{.81} = 111 \text{ Sq. Ft.}$$

"A" "B" "C" "D" "E" "F" "G" "H" "J"

EXAMPLE

COMPOSITE CALCULATIONS ALL DECKS



$$\text{Area } 1" \text{ Separation} = \frac{255}{3.56 \times 1.08 \times 1.40 \times 1.00 \times 1.00 \times 1.00 \times 1.00 \times 1.00 \times 1.00} = \frac{255}{3.56 \times 1.08 \times 1.40} = 111 \text{ Sq. Ft.}$$

"A" "B" "C" "D" "E" "F" "G" "H" "J"