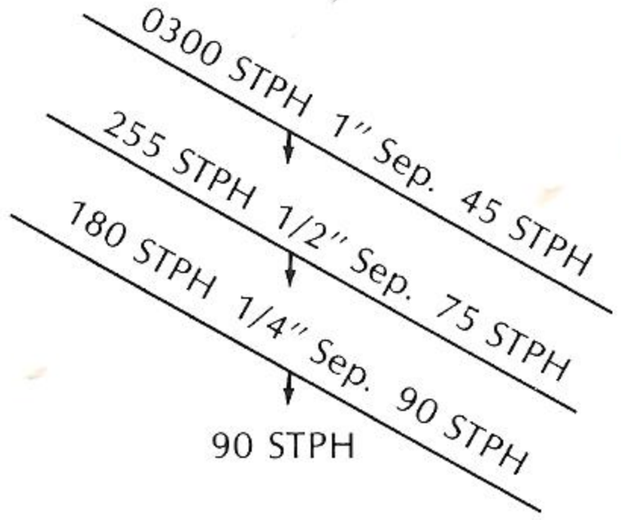
EXAMPLE
CALCULATIONS FOR TOP DECK

Sieve Analysis of Feed to Top Deck

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

Conditions for Top Deck

Feed to 1st Deck = 300 STPH
Factor "A" (for 1″) = 3.56
Factor "B" (for +″) = 1.08
Factor "C" (for -1/2″) = 1.40
180 STPH = 60%
Factor "D" for Top Deck = 1.00
Factor "E" (Dry Screening) = 1.00
Factor "F" (100 lbs. cu. ft.) = 1.00
Factor "G" (64% Surface O.A.) = 1.00
Factor "H" (Square Opening) = 1.00



$$\text{Area 1″ Separation} = \frac{255}{3.56 \times 1.08 \times 1.40 \times 1.00 \times 1.00 \times 1.00 \times 1.00 \times 1.00 \times 1.00} = \frac{255}{5.38} = 48 \text{ Sq. Ft.}$$

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

EXAMPLE
CALCULATIONS FOR SECOND DECK

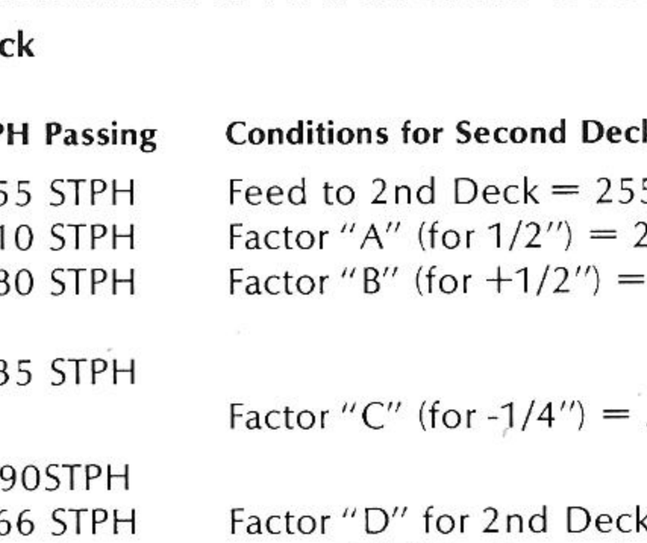
Theoretical Analysis of Feed to 2nd Deck

Opening	Cumulative % Passing	STPH Passing
1″	100%	255 STPH
3/4″	82%	210 STPH
1/2″	71%	180 STPH
3/8″	53%	135 STPH
1/4″	35%	90STPH
3/16″	26%	66 STPH
1/8″	18%	45 STPH
#10	7%	18 STPH

Conditions for Second Deck

Feed to 2nd Deck = 255 STPH
Factor "A" (for 1/2″) = 2.47
Factor "B" (for +1/2″) = .968
75 STPH = 29%
Factor "C" (for -1/4″) = .90
90 STPH = 35%
Factor "D" for 2nd Deck = .9
Factor "E" (Dry Screening) = 1.00
Factor "F" (100 lbs. cu. ft.) = 1.00
Factor "G" (54% Surface O.A.) = 1.00
Factor "H" (Square Opening) = 1.00
Factor "J" (95% Efficiency) = 1.00

Feed Distribution per Sieve Analysis



$$\text{Area 1/2″ Separation} = \frac{180}{2.47 \times .968 \times .90 \times .90 \times 1.00 \times 1.00 \times 1.00 \times 1.00 \times 1.00} = \frac{180}{1.94} = 93 \text{ Sq. Ft.}$$

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