

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.

Index. No. 35-739
(For London Office only.)

Computation of Freeboard for ~~Steamer, Sailing Ship, Tanker~~ (but with cargo draft)
having 40% Erection
Port of Survey London
Date of Survey 16th June '38.
Name of Surveyor
Particulars of Classification
Ship's Name M.S. Dolomite
(Type of Superstructures.)
Nationality and Port of Registry
Official Number
Gross Tonnage
Date of Build
Moulded Dimensions: Length 291'-3" Breadth 43'-33" Depth 21'-0"
Moulded displacement at moulded draught = 85 per cent. of moulded depth
Coefficient of fineness for use with Tables .880 Estimated

Depth for Freeboard (D) 21'-00"
Moulded depth ...
Stringer plate ...
Sheathing on exposed deck
T (L-S) / L =
Depth for Freeboard (D) = 21'-04"
Depth correction
(a) Where D is greater than Table depth
(D - Table depth) R = 21'-04" - 19'-42" = 2'-24" = 3'-63"
(b) Where D is less than Table depth (if allowed)
(Table depth - D) R =
If restricted by superstructures
Round of Beam correction
Moulded Breadth (B) 43'-33"
Standard Round of Beam = B x 12 / 50 = 10'-40"
Ship's Round of Beam = 3"
Difference Deficiency = 7'-40"
Restricted to
Correction = Diff / 4 x (1 - S1 / L) = 7'-40" / 4 x 60 = 1'-11"

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S1)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
F'cle enclosed ...					
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward ...					
Total ...					

Standard Height of Superstructure 6'-41"
R.Q.D.
Deduction for complete superstructure 34'-75"
Percentage covered S / L = 40%
S1 / L = 40%
E / L = 40%
Percentage from Table, Line A.
(corrected for absence of forecastle (if required))
Percentage from Table, Line B.
(corrected for absence of forecastle (if required))
Interpolation for bridge less than 2L (if required)
Deduction = 34'-75" x .2550 = 8'-86"

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...		1		0		1	
1/4 L from A.P. ...		4		0		4	
3/8 L „ ...		2		0		2	
Amidships ...		4		0		4	
3/8 L from F.P. ...		2		0		2	
1/4 L „ ...		4		0		4	
F.P. ...		1		0		1	
Total ...			352.15				0

Mean actual sheer aft = 0
Mean standard sheer aft
Mean actual sheer forward = 0
Mean standard sheer forward
Length of enclosed superstructure forward of amidships =
aft of =

Correction = Difference between sums of products / 18 = (75 - S / 2L) = 39.125 x 9 / (45 - 20) = 10.96
If limited on account of midship superstructure.
If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 21'-04"
Summer freeboard = 4'-50"
Moulded draught (d) = 16'-54"

Deduction for Tropical freeboard and addition for

Winter freeboard = d / 4 inches =

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = Δ / 40 T inches =

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ...	3'-63"	
Deduction for superstructures ...		8'-86"
Sheer correction ...	10'-96"	
Round of Beam correction ...	1'-11"	
Correction for Thickness of Deck amidships ...		
Other corrections, scantlings, etc. ...		

Summer Freeboard = 54'-01"

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc ...		Tropical Fresh Water Freeboard ...	
Fresh Water Line „ „ ...		Fresh Water „ „ ...	
Tropical Line „ „ ...		Tropical „ „ ...	
Winter Line below „ „ ...		Winter „ „ ...	
Winter North Atlantic Line „ „ ...		Winter North Atlantic „ „ ...	