

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ANSALDO PROP. 563.	Official Number ✓	Nationality and Port of Registry ✓	Gross Tonnage ✓	Date of Build ✓	Port of Survey ✓
Moulded Dimensions: Length 163.80 Breadth 22.80 Depth 12.00 ✓					Date of Survey 24.9.51.
Moulded displacement at moulded draught = 85 per cent. of moulded depth					Surveyor's Signature Tank
Coefficient of fineness for use with Tables .73 assumed ✓					Particulars of Classification Tanker

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 12.000	(a) Where D is greater than Table depth (D—Table depth) R = 8.33(12.026-10.920)30 = + 276 m/m	Moulded Breadth (B) 22.80
St. plate 26	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Standard Round of Beam = $\frac{B \times 12}{50} =$ 456
Shading on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = 450
Depth for Freeboard (D) = 12.026 ✓		Difference -6
		Restricted to
		Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{6}{4} \times .582 = +1 \text{ m/m}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	42.020	42.020	3.0	✓	42.020
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed	12.640	12.640	3.0	✓	12.640
„ overhang aft					
„ overhang forward					
F'cle enclosed	13.810	13.810	2.6	✓	13.810
„ overhang					
Trunk aft					
„ forward					
Tonnage opening aft					
„ „ forward					
Total	68.470	68.470			68.470

Standard Height of Superstructure	2.29 m ✓
„ „ R.Q.D.	1.83 m ✓
Deduction for complete superstructure	1067 mm ✓
Percentage covered $\frac{S}{L} =$	41.80 ✓
„ „ $\frac{S_1}{L} =$	41.80 ✓
„ „ $\frac{E}{L} =$	41.80 ✓
Percentage from Table, Line A. (corrected for absence of fore-castle (if required))	25.03 ✓
Percentage from Table, Line B. (corrected for absence of fore-castle (if required))	29.03 ✓
Interpolation for bridge less than .2L (if required)	26.57 ✓
Deduction =	1067 × .2657 = -283 mm

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	1619	1		1619	1240	1240	1		1240
$\frac{1}{4}$ L from A.P.	719	4		2876	-	-	4		-
$\frac{2}{6}$ L „	180	2		360	-	-	2		-
Amidships	-	4		-	-	-	4		-
$\frac{2}{6}$ L from F.P.	360	2		720	-	-	2		-
$\frac{1}{4}$ L „	1438	4		5752	-	-	4		-
F.P.	3227	1		3227	2000	2000	1		2000
Total				14554					3240

Mean actual sheer aft	> 1
Mean standard sheer aft	> 1
Mean actual sheer forward	> 1
Mean standard sheer forward	> 1
Length of enclosed superstructure forward of amidships =	L
„ „ aft of „ =	„

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{11314}{18} \left(.75 - \frac{209}{209} \right) = +.340 \text{ m/m}$
If limited on account of midship superstructure. **541** If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 12026 Ft. Summer freeboard = 3308 28.60 = Moulded draught (d) = 8718 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line T = Deduction = $\frac{\Delta}{40 T}$ inches =	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.734 \cdot 68}{136} = \frac{1.41}{136}$ <table><tr><th></th><th>+</th><th>-</th></tr><tr><td>Depth Correction</td><td>276</td><td>-</td></tr><tr><td>Deduction for superstructures</td><td>-</td><td>283</td></tr><tr><td>Sheer correction</td><td>340</td><td>-</td></tr><tr><td>Round of Beam correction</td><td>-1</td><td>-</td></tr><tr><td>Correction for Thickness of Deck amidships</td><td>-</td><td>-</td></tr><tr><td>Other corrections, scantlings, etc.</td><td>-</td><td>-</td></tr><tr><td></td><td>617</td><td>283</td></tr></table> Summer Freeboard = 3308		+	-	Depth Correction	276	-	Deduction for superstructures	-	283	Sheer correction	340	-	Round of Beam correction	-1	-	Correction for Thickness of Deck amidships	-	-	Other corrections, scantlings, etc.	-	-		617	283
	+	-																								
Depth Correction	276	-																								
Deduction for superstructures	-	283																								
Sheer correction	340	-																								
Round of Beam correction	-1	-																								
Correction for Thickness of Deck amidships	-	-																								
Other corrections, scantlings, etc.	-	-																								
	617	283																								

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	„

© 2021

Lloyd's Register
Foundation

011678-011692-0206