

PRELIMINARY
Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ANSALDO PROP^t 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 — tons					Surveyor's Signature <i>Tank</i>
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
Stringer 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
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = 450
Depth for Freeboard (D) = 12.026		Difference = -6
		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{6}{4} \times .582 = +1 m/m$

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	Standard Height of Superstructure 2.29 m
„ overhang						„ „ R.Q.D. 1.83 m
R.Q.D. enclosed						Deduction for complete superstructure 1067 m/m
„ overhang						Percentage covered $\frac{S}{L} =$ 41.80
Bridge enclosed	12.640	12.640	3.0	✓	12.640	„ „ $\frac{S_1}{L} =$ 41.80
„ overhang aft						„ „ $\frac{E}{L} =$ 41.80
„ overhang forward						Percentage from Table, Line A TANKER 32.80
F'cle enclosed	13.810	13.810	2.6	✓	13.810	(corrected for absence of forecastle (if required))
„ overhang						Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
„ forward						Interpolation for bridge less than .2L (if required)
Tonnage opening aft						Deduction = 1067 x 32.80 = -350
„ „ forward						
Total	68.470	68.470			68.470	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1619	1	1619	1240	1240	1	1240
$\frac{1}{2}L$ from A.P.	719	4	2876	-	-	4	-
$\frac{3}{4}L$ „	180	2	360	-	-	2	-
Amidships	-	4	-	-	-	4	-
$\frac{3}{4}L$ from F.P.	360	2	720	-	-	2	-
$\frac{1}{2}L$ „	1438	4	5752	-	-	4	-
F.P.	3227	1	3227	2000	2000	1	2000
Total			14554				3240

Mean actual sheer aft =
Mean standard sheer aft = } *Deficient.*

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
L

„ „ aft of „ =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{11314}{18} \left(\frac{.75 - .209}{209} \right) = +340 m/m$
If limited on account of midship superstructure. **.541** If limited to maximum allowance of 1½ ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	2438
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.73 + .68}{1.36} = 1.41$	2528
Depth to Freeboard Deck = 12026	$\Delta =$	Depth Correction	276
Summer freeboard = 2795	Tons per inch immersion at summer load water line	Deduction for superstructures	- 350
30.29 = Moulded draught (d) = 9231	T =	Sheer correction	340
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =	Deduction = $\frac{\Delta}{40 T}$ inches =	Round of Beam correction	1
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships	-
		Other corrections, scantlings, etc.	-
		Summer Freeboard = 2795	

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 „ „

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