

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

13050

Ship's Name C. R. D. A. YARD. NO 1384	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build 1947	Port of Survey TRIESTE
Moulded Dimensions: Length 434.0' Breadth 54.25' Depth 31.0' X to centre of main stock					Date of Survey APRIL 1947
Moulded displacement at moulded draught = 85 per cent. of moulded depth 13370 m ³ = 13490 tons					Surveyor's Signature S.B. Lumsden
Coefficient of fineness for use with Tables .761					Particulars of Classification 100A. CARRYING PETROLEUM IN BULK.

DEPTH FOR FREEBOARD (D). Moulded depth ... 31.0' Stringer plate06' Sheathing on exposed deck $T \frac{(L-S)}{L} =$ Depth for Freeboard (D) = 31.06'	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = (31.06-28.93) x 3 = 6.39 (+) (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures No. ✓	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 54.25' Standard Round of Beam = $\frac{B \times 12}{50} = 13.02$ Ship's Round of Beam = 13.58" Difference .56" Restricted to Correction = $\frac{\text{Diff}^\circ}{4} \times (1 - \frac{S_1}{L}) = \frac{.56}{4} \times .5708 = .08"$
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DEDUCTION FOR SUPERSTRUCTURES.					Standard Height of Superstructure 7.5'
Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	R.Q.D.
Popg enclosed Equiv. 95.10	95.10	7.54'		95.10	
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed Equiv. 42.43	42.43	7.54'		42.43	
" overhang aft " 7.87	.82			.82	
" overhang forward ...					
F'ole enclosed ...	51.68	7.54'		51.68	
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	190.30	190.03		190.03	
					Deduction for complete superstructure 42.00
					Percentage covered $\frac{S}{L} = 43.85$
					" $\frac{S_1}{L} = 43.78$
					" $\frac{E}{L} = 34.78$
					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) Tanker
					Deduction = 42.00 x .3478 = 14.61(-) ✓

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	53.4	1	53.40	54"	54.00	1	54.00
1/4 L from A.P. ...	23.76	4	95.04	24"	24.00	4	96.00
1/4 L " ...	5.87	2	11.74	6"	6.00	2	12.00
Amidships ...		4	50			4	
1/4 L from F.P. ...	11.74	2	23.48	13"	13.00	2	26.00
1/4 L " ...	47.53	4	190.12	52"	52.00	4	208.00
F.P. ...	106.80	1	106.80	115"	115.00	1	115.00
Total ...			480.54				511.00
Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{30.44}{18} (.75 - .2146) = .90 (-)$ If limited on account of midship superstructure. 5304							
Mean actual sheer aft = Excess ✓ Mean standard sheer aft = Mean actual sheer forward = Excess ✓ Mean standard sheer forward = Length of enclosed superstructure forward of amidships = Tanker ✓ " " aft of " = Tanker ✓							

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 31.06' Summer freeboard = 5.50' Moulded draught (d) = 25.56' Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6.39 6 3/4 Addition for Winter North Atlantic Freeboard required = 10 3/4"	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 13339.5 \text{ METRIC TONS}$ Tons per inch immersion at summer load water line $T = 19.1 \text{ TONS PER CENTIMETER}$ Deduction = $\frac{\Delta}{40 T}$ inches = 6.87 = 6 3/4	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.761 + .68}{1.36} = \frac{1.441}{1.36}$ Depth Correction ... 6.39 Deduction for superstructures ... 14.61 Sheer correction90 Round of Beam correction07 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc.8 Summer Freeboard = 65.98	70.94 ✓ 75.27 42 28.447 9 -9.72 5' 6"
SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :- Tropical Fresh Water Line above Centre of Disc ... 13 1/4 Fresh Water Line " " ... 6 3/4 Tropical Line " " ... 6 1/2 Winter Line below " " ... 6 1/2 Winter North Atlantic Line " " ... 10 3/4 Tropical Fresh Water Freeboard ... 4 - 4 3/4 Fresh Water " " ... 4 - 10 3/4 Tropical " " ... 4 - 11 1/2 Winter " " ... 6 - 0 1/2 Winter North Atlantic " " ... 6 - 4 3/4			



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A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Equivalents for Khadas

Roof

28.138

2540
846

$28 \frac{2}{3} \times 1270$

.846

Equiv

28.984m = 95.10 feet.

Bridge

11489

apc $\frac{2}{3} \times 1000$

667

fund $\frac{2}{3} \times 1168$

778

12.934 = 42.45 feet

Equiv o'hang apc = 1000 - 667 = 333mm = 1.09 feet.

Trade of ship

Names of sister ships

Builder's name and yard number CANTIERE RIUNITI DELL'ADRIATICO. YARD N°1384

Owners

Fee £



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