

GOVT. COPY ISSUED 31 JUL 1952

OWNERS' C.11 ISSUED 31 JUL 1952

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 43365
(For London Office only.)

21 JAN 1952

DUNDEE REPORT NO 9829.

Ship's Name "EDDYBAY"	Official Number 184616	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 2156	Date of Build 1952	Port of Survey DUNDEE
Moulded Dimensions: Length 270' Breadth 44' Depth 18.5'					Date of Survey WHILE BUILDING
Moulded displacement at moulded draught = 85 per cent. of moulded depth (15.83') 3720 tons					Surveyor's Signature S. Bowman
Coefficient of fineness for use with Tables .697					Particulars of Classification * 100 A1 "CARRYING PETROLEUM IN BULK"

DEPTH FOR FREEBOARD (D). Moulded depth ... 18.5 Stringer plate (.70")068 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$.06 Depth for Freeboard (D) = 18.56	DEPTH CORRECTION. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ (18.56 - 18.00) 2.077 = +1.16" (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$.56 If restricted by superstructures <input checked="" type="checkbox"/>	ROUND OF BEAM CORRECTION. Moulded Breadth (B) 44.0' Standard Round of Beam = $\frac{B \times 12}{50} =$ 10.56 Ship's Round of Beam 10.5' = 10.50 Difference .06 Restricted to Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) =$.06 x .3044 = Nil.
---	---	---

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	SEE SKETCH 98.00	98.00	7.75	-	98.00
" overhang	98.00				
R.Q.D. enclosed	-				
" overhang	-				
Bridge enclosed	SEE SKETCH 34.46	34.46	7.75	-	34.46
" overhang aft	20.81	1.36			1.36
" overhang forward	4.0'				
F'cle enclosed	54.0'	54.00	7.00	-	54.00
" overhang	-				
Trunk aft	-				
" forward	-				
Tonnage opening aft	-				
" " forward	-				
Total	188.27	187.82			187.82

Standard Height of Superstructure	6.20'
" " R.Q.D.	-
Deduction for complete superstructure	33.00"
Percentage covered $\frac{S}{L} =$	69.72
" " $\frac{S_1}{L} =$	69.56
" " $\frac{E}{L} =$	62.52
Percentage from Table, Line A. TANKER	62.52
(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 = 33.00 x .6252 = -20.63"	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	37.00	1		37.00	37"	37.00	1		37.00
$\frac{1}{2}L$ from A.P.	16.46	4		65.84	16"	16.00	4		64.00
$\frac{2}{3}L$ "	4.07	2		8.14	4"	4.00	2		8.00
Amidships	-	4		-	-	-	4		-
$\frac{2}{3}L$ from F.P.	8.14	2		16.28	8"	8.00	2		16.00
$\frac{1}{2}L$ "	32.92	4		131.68	32.19"	32.19	4		128.76
F.P.	74.00	1		74.00	74"	74.00	1		74.00
Total				332.94					327.76

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{5.18(75 - .3986)}{18} = +.10"$

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 = **18.56** Ft.

Summer freeboard = **1.35**

Moulded draught (d) = **17.21**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **4.30 x 4 1/4**

Addition for Winter North Atlantic Freeboard (required) = **4.30 + 2.70 = 7"**

Deduction for Fresh Water.

Displacement in salt water at summer load water line $\Delta =$ **4178**

Tons per inch immersion at summer load water line **T = 23.23**

Deduction = $\frac{\Delta}{40 T}$ inches = **4 1/2"**

TABULAR FREEBOARD (corrected for Flush Deck (if required))

Correction for coefficient $\frac{.697 + .68}{1.36} = 1.377 / 1.36$

	+	-
Depth Correction	1.16	
Deduction for superstructures		20.63
Sheer correction	.10	
Round of Beam correction		
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
	1.26	20.63
Summer Freeboard	16.27	

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

Tropical Fresh Water Line above Centre of Disc	8 3/4"	Tropical Fresh Water Freeboard	8.7 1/2"
Fresh Water Line	4 1/2"	Fresh Water	8.1 3/4"
Tropical Line	4 1/4"	Tropical	7.9"
Winter Line below	4 1/4"	Winter	7.8 1/2"
Winter North Atlantic Line	7"	Winter North Atlantic	11 1/4"

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.

Trade of ship International

Names of sister ships R.F.A. "EDDYBEACH" - CALEDON YARD NO 474 - DUNDEE REPORT NO 9803.

Builder's name and yard number CALEDON S. B. & E. CO. LD. YARD NO 480

Owners ADMIRALTY

Fee £ 21 : - : -



© 2020

Lloyd's Register
Foundation