

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. **41795**
(For London Office only.)

Survey Report No. 9803.

Ship's Name "EDDYBEACH" MYKINAI	Official Number 184537	Nationality and Port of Registry British GREEK LONDON	Gross Tonnage 2157	Date of Build 1951	Port of Survey London
Moulded Dimensions: Length 270' ✓ Breadth 44' ✓ Depth 18'-6" ✓ To L.O.R.S.					Date of Survey while building
Moulded displacement at moulded draught = 85 per cent. of moulded depth (15'-8 3/4") 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")	...	...	...	0.06
Sheathing on exposed deck	...	...	...
$T \left(\frac{L-S}{L} \right) =$	...	...	...
Depth for Freeboard (D) =	...	...	...	18.56

DEPTH CORRECTION.

- (a) Where D is greater than Table depth
(D-Table depth) R =
 $(18.56 - 18.00) 2.077 = +1.16$ ✓
- (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)	44.0'
Standard Round of Beam = $\frac{B \times 12}{50}$	10.56
Ship's Round of Beam 10 1/2" ✓	10.50
Difference	0.06
Restricted to	
Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$	$\frac{0.06}{4} \times 0.3044 = \text{NIL}$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S)	Height	Height Correction	Effective Length (E)
Poop enclosed	26.9800	98.00	7.75	✓	98.00
" overhang					
R.Q.D. enclosed					
" overhang	34.46	46			46
Bridge enclosed	34.53	34.53	7.75	✓	34.53
" overhang aft	1.346	1.346			1.346
" overhang forward					
Fore enclosed	54.00	54.00	7.00	-	54.00
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total	188.27	187.84			187.84

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. ✓
" " $\frac{E}{L} =$	
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 = $33.00 \times 0.6252 =$	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
1/2 L from A.P.	16.46	4		65.84	16"	16.00	4		64.00
3/4 L "	4.07	2		8.14	4"	4.00	2		8.00
Amidships	✓	4		✓	-	✓	4		✓
3/4 L from F.P.	8.14	2		16.28	8"	8.00	2		16.00
1/2 L "	32.92	4		131.68	32.19"	32.19	4		128.76
F.P.	74.00	1		74.00	74.00"	74.00	1		74.00
Total				332.94					327.76

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{5 \times 18}{18} \left(\frac{75-3986}{2 \times 270} \right) = +1.10$ ✓

If limited on account of midship superstructure.

Mean actual sheer aft
Mean standard sheer aft =
DEFICIENT.

Mean actual sheer forward
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
" " aft of " =
TANKER.

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
Summer freeboard	=	1.35
Moulded draught (d)	=	17.21 ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = $4.30 = 4 3/4$ ✓Addition for Winter North Atlantic Freeboard (if required) = $4.30 + 2.70 = 7.00 = 7$ ✓

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 $\frac{697+68}{1.36} = \frac{1.377}{1.36}$ ✓

	+	-
Depth Correction	1.16	✓
Deduction for superstructures	20.63	✓
Sheer correction	0.08	✓
Round of Beam correction	✓	✓
Correction for Thickness of Deck amidships	✓	✓
Other corrections, scantlings, etc.	✓	✓
	1.24	20.63

Summer Freeboard = 16.25 ✓

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

Tropical Fresh Water Line above Centre of Disc	8 3/4	222 m/m
Fresh Water Line	4 1/2	114
Tropical Line	4 1/4	108
Winter Line below	4 1/4	108
Winter North Atlantic Line	7	178

Tropical Fresh Water Freeboard	0 - 4 1/4	413 m/m
Fresh Water	0 - 7 1/2	191 "
Tropical	0 - 11 3/4	299 "
Winter	1 - 8 1/2	305 "
Winter North Atlantic	1 - 11 1/4	521 "
		591 "

Eddyleach

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.

$$\begin{array}{rcl} \text{Hoop} & \text{Length at Side} & = 96.00' \\ & + \frac{2}{3} \times 3 & = \frac{2}{98.00} = \text{Equip Bhl} \end{array}$$

$$\begin{array}{rcl} \text{Bridge} & \text{Length at Side} & = 38.00' \\ & - \frac{20 \times 4}{44 \times 42} & = \frac{1.90}{182} \\ & & 36.18' \times \frac{42}{44} = 34.83' \\ \text{Overhang} & = & \frac{1.90}{182} \times \frac{42}{44} = .1174' \\ & & 1.81' \end{array}$$

Trade of ship International

Names of sister ships "EODT" class Admiralty Tankers.

Builder's name and yard number Caledon S.B. & E Co Ltd. Yard no 474

Owners Admiralty.

Fee £ 19 - -



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