

Eceabot 36163  
Gemlik 36358  
Kilye 36375  
Lapseki 36431  
Mudanya 36431

NEWCASTLE-on-TYNE No. 95675

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 36343  
(For London Office only).

JUL 31 1940

Ship's Name <b>"ERDEK"</b>	Official Number -	Nationality and Port of Registry Turkish Istanbul	Gross Tonnage 691	Date of Build 1940	Port of Survey Walker-on-Tyne
Moulded Dimensions: Length 180'-0" Breadth 40'-0" Depth 15'-0" actual 12'-9" virtual					Date of Survey During construction.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1722 tons					Surveyor's Signature E.H. Dean
Coefficient of fineness for use with Tables 68 - 65.5 (64.4 actual) 1436 at 85% & 12.75					Particulars of Classification +100 A.1. with Freeboard - Ferry Service.

Depth for Freeboard (D). Moulded depth Virtual ... 12.75 Stringer plate ... Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 12.75'	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = $(12.75 - 12.00) \times 1.385 = +1.04"$ (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) 40'-0" Standard Round of Beam = $\frac{B \times 12}{50} = 9.60"$ Ship's Round of Beam = 3" Difference Deficiency = 6.60" Restricted to Correction = $\frac{\text{Diff}^2}{4} \times \left( 1 - \frac{S_1}{L} \right) = \frac{6.60^2}{4} \times 0.922 = +4.04"$
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## DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	176.00	176.00	2.25'	2.273/6.00	66.68
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" forward ...					
Total ...	176.00	176.00			66.68

Standard Height of Superstructure	6.00'
" " R.Q.D.	✓
Deduction for complete superstructure	24.00"
Percentage covered $\frac{S}{L} =$	97.78
" " $\frac{S_1}{L} =$	97.78
" " $\frac{E}{L} =$	37.04
Percentage from Table, Line A.	✓
(corrected for absence of forecastle (if required))	✓
Percentage from Table, Line B.	14.98
(corrected for absence of forecastle (if required))	19.98
Interpolation for bridge less than 2L (if required)	✓
Deduction =	24.00 × 19.98 = -4.80"

## SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	18.00	1		18.00	3"	3.00	1		3.00
$\frac{1}{2}L$ from A.P. ...	12.46	4		49.84	$\frac{1}{4}"$	.15	4		1.00
$\frac{2}{3}L$ " ...	3.08	2		6.16	nil	-	2		-
Amidships ...	-	4		-	nil	-	4		-
$\frac{2}{3}L$ from F.P. ...	6.16	2		12.32	$\frac{1}{16}"$	.06	2		.12
$\frac{1}{2}L$ " ...	24.91	4		99.68	$\frac{13}{16}"$	.81	4		3.24
F.P. ...	56.00	1		56.00	3"	3.00	1		3.00
Total ...				152.00					10.36

Mean actual sheer aft = Deficient  
Mean standard sheer aftMean actual sheer forward = Deficient  
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = } Deficient  
" " aft of " = } Sheers.Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{241.64 - 148.94}{18} = +3.51"$   
If limited on account of midship superstructure.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 = 15.02  
Summer freeboard = 5.92  
Moulded draught (d) = 9.10Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 1.48 = 1 1/4"  
Addition for Winter North Atlantic Freeboard (if required) = ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line  
 $\Delta = 1131$   
Tons per inch immersion at summer load water line  
 $T = 13.77$   
Deduction =  $\frac{\Delta}{40T}$  inches = 1.05"  
= 1"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient 1.00

Depth Correction ... 1.04  
Deduction for superstructures ... 4.80  
Sheer correction ... 3.51  
Round of Beam correction ... .04  
Correction for difference between height of actual and virtual deck ... 17.18  
Other corrections, scantlings, etc. to an all seasons extreme draught ... 24.13  
56.00 4.80 + 51.20  
of 91.0"

Summer Freeboard = 71.00

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

Tropical Fresh Water Line above Centre of Disc ...	✓
Fresh Water Line " " ...	2"
Tropical Line " " ...	✓
Winter Line below " " ...	2 1/4"
Winter North Atlantic Line " " ...	✓

Tropical Fresh Water Freeboard ...	5'-11"
Fresh Water " " ...	5'-9"
Tropical " " ...	✓
Winter " " ...	6'-1 1/4"
Winter North Atlantic " " ...	✓

- 2 AUG 1940



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.

LLOYD'S REGISTER OF SHIPPING  
SURVEYOR'S FORM FOR FREEBOARD  
(COMPLETION FOR STEAMER, SAILING SHIP, TANKER)

Name of Ship <i>Wolken - an - Igne</i>	Date of Survey <i>1920</i>	Name of Surveyor <i>180-0</i>	Name of Ship <i>ERDEK</i>	Date of Survey <i>180-0</i>	Name of Surveyor <i>180-0</i>
Name of Ship <i>Wolken - an - Igne</i>	Date of Survey <i>1920</i>	Name of Surveyor <i>180-0</i>	Name of Ship <i>ERDEK</i>	Date of Survey <i>180-0</i>	Name of Surveyor <i>180-0</i>
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Name of Ship <i>Wolken - an - Igne</i>	Date of Survey <i>1920</i>	Name of Surveyor <i>180-0</i>
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Name of Ship <i>Wolken - an - Igne</i>	Date of Survey <i>1920</i>	Name of Surveyor <i>180-0</i>

SHEET CORRECTION

Product	Quantity	Value	Weight	Volume	Value
		3			
		1/4			
		1/2			
		1/2			
		1/2			
		1/2			
		1/2			
		1/2			
		1/2			
		1/2			

Trade of ship Long Service

Names of sister ship 'ECEBAT' - Newcastle - an - Igne Report No. 98652.

Builder's name and yard number Swan Hunter, Wigham Richardson No 1664.

Owners Imperial Government.

Fee £ 8-0-0



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