

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "EMPIRE KENT" EX LEVANTE.	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build 1939	Port of Survey Glasgow
Moulded Dimensions: Length 403.5' Breadth 56.5' Depth 25'-7" <i>To centre line of rudder stock</i>					Date of Survey 10th December 1945.
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature Frederick V. Bell
Coefficient of fineness for use with Tables .68 assumed					Particulars of Classification

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 25.58	(a) Where D is greater than Table depth (D-Table depth) R = -	Moulded Breadth (B) 56.5'
Stringer plate04	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = (26.90-25.62) x 3 = 3.84"	Standard Round of Beam = $\frac{B \times 12}{50} = 13.56$
Sheathing on exposed deck	If restricted by superstructures -	Ship's Round of Beam = 14 Nil
$T \left(\frac{L-S}{L} \right) =$		Difference Definite 13.56"
Depth for Freeboard (D) = 25.62		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{13.56}{4} \times .0072 = .02"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	29.58	29.58	8.25	-	29.58
" overhang ...	1.42	1.21			1.21
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...	366.67	366.67	8.25	-	366.67
" overhang aft33	.25			.25
" overhang forward ...					
Fore enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...	4.50	2.90			2.90
" " forward ...					
Total ...	403.50	400.61			400.61

Standard Height of Superstructure	7.50
" " R.Q.D.	42.00
Deduction for complete superstructure	42.00
Percentage covered $\frac{S}{L} =$	100.00
" " $\frac{S_1}{L} =$	99.28
" " $\frac{E}{L} =$	99.28
Percentage from Table, Line A.	99.11
(corrected for absence of fore-castle (if required))	
Percentage from Table, Line B.	
(corrected for absence of fore-castle (if required))	
Interpolation for bridge less than .2L (if required)	
Deduction =	42.00 x .9911 = -41.63"

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	50.35	1	50.35	48½	57.5	1	57.50
¼L from A.P. ...	22.40	4	89.60	21½	25.59	4	102.36
½L " ...	5.54	2	11.08	3½	6.33	2	12.66
Amidships ...	-	4	-	-	-	4	-
¾L from F.P. ...	11.08	2	22.16	11	11.82	2	23.64
¾L " ...	44.81	4	179.24	41½	47.84	4	191.36
F.P. ...	100.70	1	100.70	98½	107.5	1	107.50
Total ...			453.13	+9			495.02

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{41.89}{18} \times .25 = -.58$

If limited on account of midship superstructure.

Actual T.M. height **8'-3"**
Standard **7'-6"**
0'-9"

Mean actual sheer aft = **Exam**
Mean standard sheer aft =

Mean actual sheer forward = **Exam**
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships = **6 C.S.S.**
" " aft of " =

Deduction for Tropical Freeboard.**Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = **25.62**
Summer freeboard = **2.21**
Moulded draught (d) = **23.41**

Deduction for Tropical freeboard and addition forWinter freeboard = $\frac{d}{4}$ inches = **5.85 = 5¾"****Addition for Winter North Atlantic Freeboard (if required) =****Deduction for Fresh Water.**

Displacement in salt water at summer load water line

 $\Delta =$ **10860**

Tons per inch immersion at summer load water line

 $T =$ **463**Deduction = $\frac{\Delta}{40 T}$ inches $d =$ **5¾"****4****TABULAR FREEBOARD corrected for Flush Deck (if required)**

Correction for coefficient

$$\frac{-68 + 68}{1.36} = 1.0$$

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

	+	-
Depth Correction	-	3.84
Deduction for superstructures	-	41.63
Sheer correction	-	.58
Round of Beam correction	.02	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	0.02	46.05

Summer Freeboard = **26.55****SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Steel, Deck :-**

Tropical Fresh Water Line above Centre of Disc

Fresh Water Line

Tropical Line

Winter Line

Winter North Atlantic Line

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

20-12-45

Lloyd's Register Foundation

Empire Kent.

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.

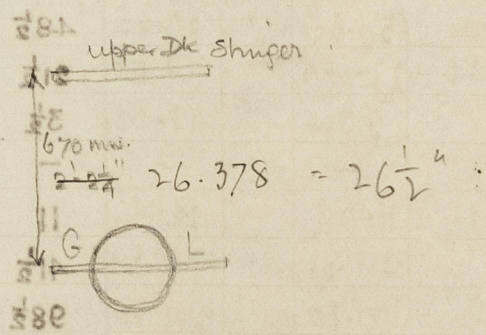
Planned

of December 1940

Frederick V. Jones

EMPIRE KENT
EX LEVANTE

No plans available



Trade of ship International

Names of sister ships —

Builder's name and yard number —

Owners Ministry of War Transport.

Fee £ 15 . 0 . 0 .



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