

Received 15 AUG 1958

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Index No.
Govt. Copy
Owners C11.....

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
EMPIRE SHEARWATER	187500	BRITISH DOVER	4262 4285	1945	Glasgow

Moulded Dimensions: Length ^{Builder's Length, B.P.} 330-0 Breadth 54-0 Depth 27-0 ✓
Freeboard Length 322-0 to under of Rudder Stock at 10-6" Summer Mold Draft.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 9520 tons
(excluding basing)
Coefficient of fineness for use with Tables .835 ✓

Surveyor's Signature *A. Scott*Particulars of Classification *F-A Transport Ferry (with geographical limits)*

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 27-00 ✓	(a) Where D is greater than Table depth (D-Table depth) R = $(27-03 - 21-47) \div 2 = 2-77$	Moulded Breadth (B) 54-00 ✓
Stringer plate03 ✓	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 12-96$ ✓
Wood Sheathing on exposed deck	If restricted by superstructures	Ship's Round of Beam = None ✓
$T \left(\frac{L-S}{L} \right) =$ None		Difference 12-96 ✓
Depth for Freeboard (D) = 27-03 ✓		Restricted to
		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right) = \frac{12-96^2}{4} \times \left(1 - \frac{54-00}{322-0} \right) = 3-24$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'ole enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$ " " $\frac{S_1}{L} =$ " " $\frac{E}{L} =$

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)

Deduction = Nil.

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	42-20	1	42-20	27-0	27-00	1	27-00
1/4 L from A.P.	18-78	4	74-12	16-0	16-00	4	64-00
1/2 L	4-64	2	9-28	2-5	2-50	2	5-00
Amidships	0	4	0	0	0	4	0
3/4 L from F.P.	9-28	2	18-56	-	0	2	0
1/4 L	37-56	4	150-24	-	0	4	0
F.P.	84-40	1	84-4	35-25	35-25	1	35-25
Total			379-80				131-25

Correction = Difference between sums of products $\left(\frac{75-S}{2L} \right) = \frac{248-55}{18 \times 75} = +10-36$ ✓

If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100ft.

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

Depth to Freeboard Deck = 27-03 ✓
Summer freeboard = 16-52 ✓
Moulded draught (d) = 10-51 ✓
Keel allowance =
Extreme draught =

Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{4}$ inches = 2-63 = 2-3/4 ✓

Addition for Winter North Atlantic Freeboard (if required) = Not assigned ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $\Delta = 4131$ ✓
Tons per inch immersion at summer load water line
 $T = 36-21$ ✓

Deduction = $\frac{\Delta}{40 T}$ inches
 $= \frac{4131}{40 \times 36-21} = 2-85 = 2-3/4$ ✓
10-0 dr. 3910 T 55-90
11-0 dr. 4345 T 36-50
12-0 dr. 4800 T 37-10

TABULAR FREEBOARD corrected for Fresh Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Shear correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc. to...

correspond to a Sh. draught

of 10-6" (10-6/8" actual)

+	-
13-77	-
10-36	-
3-24	-
111-00	-
138-37	-

Summer Freeboard = 198-25 ✓

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

Tropical Fresh Water Line above Centre of Disc not assigned ✓
Fresh Water Line " " 2-3/4 ✓
Tropical Line " " not assigned ✓
Winter Line below " 2-3/4 ✓
Winter North Atlantic Line " " not assigned ✓

Tropical Fresh Water Freeboard not assigned ✓
Fresh Water " 16-3/2 ✓
Tropical " not assigned ✓
Winter " 16-9 ✓
Winter North Atlantic " not assigned ✓

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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.

Trade of ship *For service limits "U.K. and Eire (excluding the west coast of Ireland) also to and from the Baltic and Mediterranean"*

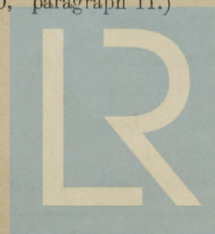
Names of sister ships *—*

Builder's name and yard number *Wm. Pickersgill & Sons Ltd.*

Owners *Ministry of Transport & Civil Aviation, on time charter to Messrs. European Ferries Ltd.*

Fee £ *with F.E.* *Agents to above: - Messrs. Bryce Ramsey & Co.*

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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