

REASSIGNMENT.

2477 1/2

Form LL. 4.C. Revised

THE BRITISH CORPORATION REGISTER OF SHIPPING AND AIRCRAFT SURVEY FOR FREEBOARD

STEAMER, TANKER, SAILED: ^{S.S.} "EMPIRE MAYFLOWER" WITHOUT TIMBER DECK CARGO

Nationality BRITISH Builders' Name and No. of Ship BARRAM E SONS LTD N° 308.

Port of Registry SUNDERLAND

Official Number 180164 Owners MINISTRY OF WAR TRANSPORT.

Gross Tonnage 30410 (M.C.S.) SINGAPORE STRAITS SHIPPING CO LTD.

Date of Build 9/1945 Port and Date of survey SUNDERLAND. DURING CONSTRUCTION.

Name of Surveyor W.H. STEPHENSON. T.B. TILLERY.

Particulars of Classification B.S. * WITH FREEBOARD * Names of Sister Ships BOUNDERS No 307. "C" TYPE COASTER EAST INDIAN ARCHIPELAGO SERVICE

Type of Superstructures OPEN SHEAR DECK - MIDDLE LINE OPENING AMIDSHIPS

Trade of Ship

Service Endorsement ~~None~~ AND ONLY SO LONG AS THE SHIP IS ENGAGED IN EAST INDIAN ARCHIPELAGO SERVICE.

TEMPORARY ENDORSEMENT

THE EXTREME DRAUGHT OF THIS SHIP FOR THE VOYAGE FROM THE UNITED KINGDOM TO THE PORTS OF DESTINATION MUST NOT EXCEED 9'0"

ALL SEASONS

SUMMER FREEBOARD recommended amidships from centre of disc to top of deck line, (.....wood.....steel)

0'-7"

TROPICAL FRESH WATER LINE above centre of disc Corresponding Freeboard

FRESH WATER LINE " " " 2 1/2" " " 0'-4 1/2"

TROPICAL LINE " " " " " "

WINTER LINE below " " " " " "

WINTER NORTH ATLANTIC LINE " " " " " "

SUMMER TIMBER FREEBOARD recommended amidships from top of deck line

TROPICAL FRESH WATER Timber line above L.S. Corresponding Freeboard

FRESH WATER " " " " " "

TROPICAL " " " " " "

WINTER " " below " " " "

WINTER NORTH ATLANTIC " " " " " "

Number of years recommended for load line certificate

LL12 Reassign

original certificate

Issued 24-8-45
Expiry 23-8-50

The scantlings and protective arrangements being in accordance with the Load Line Rules it is submitted that the freeboards be assigned

Chief Surveyor

Passed at a meeting of the Committee of Management of the British Corporation Register of Shipping and Aircraft

on the 1st August 1945



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Lloyd's Register Secretary

Foundation

003450-003457-0037.1

COMPUTATION OF FREEBOARD

Length on summer load line **140'-5"** Moulded Breadth **27'-0"** Moulded Depth **10'-6"** Depth of Keel **.80**
 Moulded displacement (ex bossing) at moulded draught of 85 per cent. of moulded depth **683** Tons
 Co-efficient of fineness for use with tables $\frac{\Delta \times 35}{L \times B \times D \times .85} = .7063$
 Displacement and tons per inch immersion in salt water at summer load line **774 @ 7.70.**
 Moulded depth **10.500** Deduction for Fresh Water $\frac{\Delta}{40T} = 2\frac{1}{2}$ inches
 Stringer Plate $\frac{5}{16}$.026 Round of Beam Correction
 Sheathing on exposed deck T $\left(\frac{L-S}{L}\right)$ - Ships Round of Beam **0.00** inches
 Rise of floor (in sailers) - Standard Round of Beam $\frac{B \times 12}{50} = 6.48$
 Depth for Freeboard (D) **10.526** Difference **6.48**
 Table Depth $\frac{4}{15}$ 9.361 Restricted to
 Depth Correction $\frac{4}{130}$ 1.165 Correction $\frac{\text{Difference}}{4} \times \left(1 - \frac{E}{L}\right) = 1.62 \times .2359 = .382 \text{ ON}$
 If restricted by superstructures **1.258 ON.**

	Enclosed Length	Length of Overhang	Height	Mean Covered Length (S)	Height Correction	Effective Length (E)
Poop	50'-5"	28'-0"	7'-0"	78.42		64.42
Raised Quarter Deck						
Bridge	}	F				
		A				
Forecastle	23'-9"	34'-3"	7'-0"	58.00		40.88
Trunk Aft						
" Forward						
Tonnage Opening Aft	4'-0"			4'-0"	x .80	2.00
" " Forward						
Totals				140.42		107.30

Standard Height of Superstructure **6'-0"**
 " " R.Q.D. -
 Percentage covered S/L = **100%**
 " " E/L = **76.41%**
 " from Table line A, B (corrected for absence of forecastle if required) **70.88%**
 Percentage from Table by interpolation for Bridge less than .2L if required = -
 Deduction = **20.042 x .7088 = 14.21 OFF**
 Percentage from Table for Tankers (or Timber ships) = -
 Deduction = -

Sheer Deck Height 24.56

Station	Actual Sheer	Standard Sheer	Effective Sheer	S.M.	Product
12'-44" A.P.	1'-4"	24.04	24.04	1	24.04
12'-44" 1/3 L from A.P.		10.70	10.70	4	42.80
3'-11" 1/3 L from A.P.		2.64	2.64	2	5.28
- Amidships	-	-	-	4	-
3'-89" 1/3 L from F.P.		5.29	3.89	2	7.78
15'-56" 1/3 L " "		21.40	15.56	4	62.24
34'-98" F.P.	2'-8"	48.08	34.98	1	34.98
				18	177.12
Effective Mean Sheer	=		9.840		
Standard " " .05L + 5	=		12.020		
Difference			2.180		

Mean Actual sheer aft = **MORE THAN 1.**
 " Standard " " =
 Mean Actual sheer forward = **LESS THAN 1. (72.84%)**
 " Standard " " =
 Length of enclosed superstructure forward of amidships = -
 Length of Ship
 Length of enclosed superstructure aft of amidships = -
 Length of Ship
 Sheer Correction = Difference $\times \left(75 - \frac{S}{2L}\right) = 2.180 \times .25 = .545 \text{ ON.}$
 If limited on account of midship superstructure = -
 " to maximum allowance of 1 1/2 ins. per 100 ft. = -

TABULAR FREEBOARD corrected for flush deck if required = **14.25**

Correction for co-efficient = $\frac{13863}{136} = 14.53$ DRAUGHTS AND SEASONAL CORRECTIONS

	+	-	Sailer, Tanker, Steamer	Timber
Depth correction	1.26	-		
Deduction for superstructures	-	14.21		
Sheer correction	.54	-		
Round of Beam correction	.38	-		
Correction for thickness of deck amidships	-	-		
Other corrections, scantlings, etc.	4.50	-		
	6.68	14.21	-7.53	
ALL SEASONS Summer Freeboard in inches	7"		7.00	
Additional allowance for superstructures on Timber carrying ships	=			
Summer Timber Freeboard in inches	=			

	Sailer, Tanker, Steamer	Timber
Depth to Freeboard Deck in feet	10.526	
ALL SEASONS Summer-Freeboard in feet	.583	
Moulded Draught (d)	9.943	(d1)
Addition for Keel	.067	
Extreme draught	10'-0"	10.010
Deduction for Tropical and addition for Winter freeboard d/4 =	-	ins.
Addition for Winter North Atlantic (if required)	-	ins.
Deduction for Tropical Timber Freeboard $\frac{d}{4}$	=	ins.
Addition for Winter " $\frac{d}{3}$	=	ins.
" " N.A. Timber Freeboard (if required)	=	ins.