

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index. No. 22282
(For London Office only).

(COMPUTATION FOR STEAMER, ~~SAILING SHIP, TANKER~~)

Ship's Name EMPIRE CONDERTON <i>ex LINA FISSE</i>	Official Number 127100 (originally)	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 1557.77	Date of Build 1912	Port of Survey SHARONESS 12, 18, 21 Sept } 1945. Date of Survey 2, 5, 12, 16 Dec }
Moulded Dimensions: Length 240'-0" Breadth 36'-0" Depth 22'-2"					Surveyor's Signature A. Reia
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Particulars of Classification +...
Coefficient of fineness for use with Tables .79 (estimated)					

Depth for Freeboard (D). Moulded depth ... 22.17 Stringer plate 7/16"04 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ - Depth for Freeboard (D) = 22.21	Depth correction. (a) Where D is greater than Table depth (D - Table depth) R = (22.21 - 16.00) 1.846 = +11.46 (b) Where D is less than Table depth (if allowed) (Table depth - D) R = 6.21 If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 36'-0" Standard Round of Beam = $\frac{B \times 12}{50} =$ 8.64 Ship's Round of Beam = 9" Difference .36 Restricted to ✓ Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.36 \times 19.88}{4} = .06$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	15.83	15.83	6.5'	✓	15.83	Standard Height of Superstructure 6.00'
„ overhang33	.17		✓	.17	„ „ R.Q.D. 3.933
R.Q.D. enclosed ...	-	-			-	Deduction for complete superstructure 30.00"
„ overhang ...	-	-			-	Percentage covered $\frac{S}{L} =$ 31.51
Bridge enclosed ...	31.42	28.28	7.0'	-	28.28	„ „ $\frac{S_1}{L} =$ 30.12
„ overhang aft ...	-	-			-	„ „ $\frac{E}{L} =$ 30.12
„ overhang forward ...	-	-			-	Percentage from Table, Line A 15.10
F'cle enclosed ...	27.97	27.97	7.0'	-	27.97	(corrected for absence of forecastle (if required))
„ overhang07	.04			.04	Percentage from Table, Line B 19.10
Trunk aft ...	-	-			-	(corrected for absence of forecastle (if required))
„ forward ...	-	-			-	Interpolation for bridge less than .2L (if required) 15.10 + 4.00 (.1178) = 17.46
Tonnage opening aft ...	-	-			-	Deduction = 30.00 x .1746 = 5.24"
„ „ forward ...	-	-			-	
Total ...	75.62	72.29			72.29	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	34.00	1		34.00	-28.00	-28.00	1		-28.00	Mean actual sheer aft =
1/4 L from A.P. ...	15.13	4		60.52	-9.00	-9.00	4		-36.00	Mean actual sheer forward =
1/2 L „ ...	3.74	2		7.48	-1.00	-1.00	2		-2.00	Mean standard sheer forward =
Amidships ...	-	4		-	-	-	4		-	Length of enclosed superstructure forward of amidships =
3/4 L from F.P. ...	7.48	2		14.96	-1.00	-1.00	2		-2.00	„ „ aft of „ =
1/4 L „ ...	30.26	4		121.04	-7.50	-7.50	4		-30.00	
F.P. ...	68.00	1		68.00	-21.50	-21.50	1		-21.50	
Total ...				306.00					-119.50	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{.2L} \right) = \frac{425.50 (.75 - .1576)}{18} = +14.00"$
 If limited on account of midship superstructure. **No** **5924** If limited to maximum allowance of 1 1/2 ins. per 100 ft. **No**

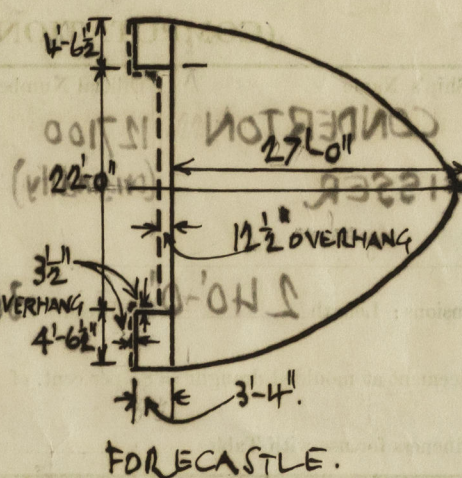
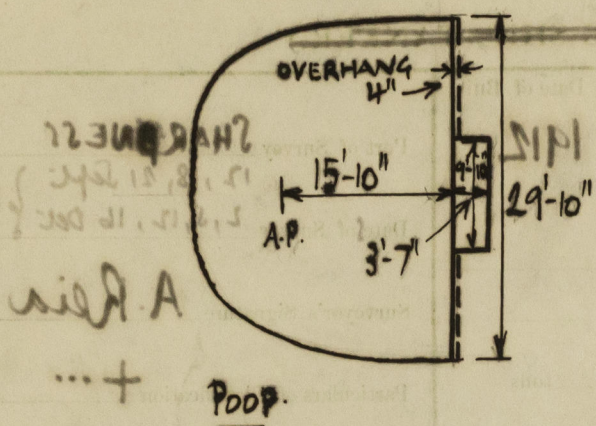
Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 22.21 Summer freeboard = 6.21 Moulded draught (d) = 15.96 Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 3.99 = 4" Addition for Winter North Atlantic Freeboard (if required) = 3.99 + 2 = 6"	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ 3120 Tons per inch immersion at summer load water line T = 17.8 Deduction = $\frac{\Delta}{40 T}$ inches = 4.39 = 4 1/2"	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient .79 + .68 = 1.47 / 1.36 Depth Correction ... 11.46 Deduction for superstructures ... 5.24 Sheer correction ... 14.00 Round of Beam correction ... 0.60 Correction for Thickness of Deck amidships ... - Other corrections, scantlings, etc. construction 22.09 47.55 5.30 + 42.25 Summer Freeboard = 75.00
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... 8 1/2" Fresh Water Line „ „ ... 4 1/2" Tropical Line „ „ ... 4" Winter Line below „ „ ... 4" Winter North Atlantic Line „ „ ... 6"	Tropical Fresh Water Freeboard ... 5'-6 1/2" Fresh Water „ „ ... 5'-10 1/2" Tropical „ „ ... 5'-11" Winter „ „ ... 6'-7" Winter North Atlantic „ „ ... 6'-9"
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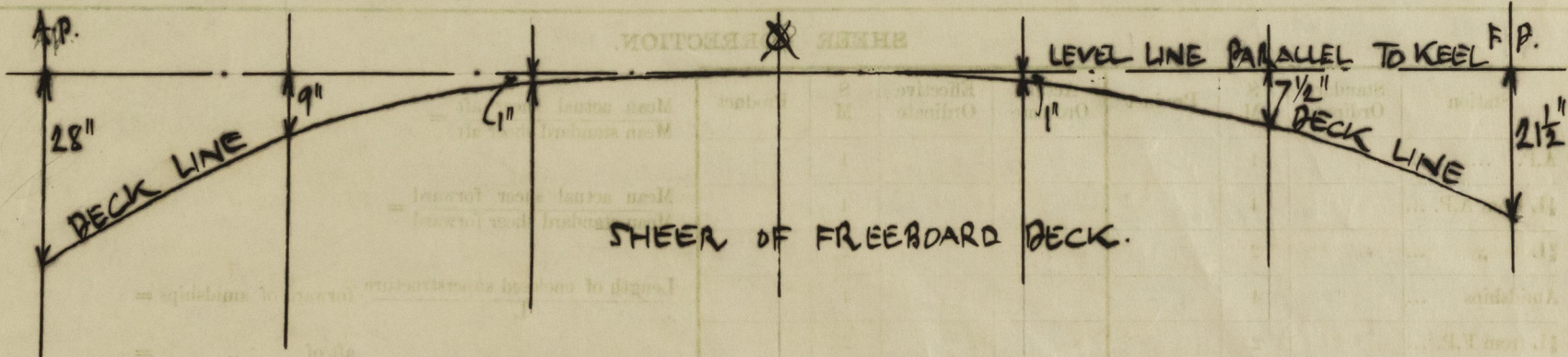
Empire Conderton.

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.



Side houses $3.33' \times 4.54' = +.97$
 $\frac{15.54'}{27.00'}$
 Enclosed $27.00'$
 Equiv enclosed $27.97'$
 Enclosed + overhang $28.04'$
 Equiv enclosed $27.97'$
 Equiv overhang $.07'$

Displacement. The only figure available is that given on the sheet of tonnage particulars attached to the First Entry Report:— 3248 tons, total, to quarter the depth from weather deck at side amidships to bottom of keel, the tons per inch immersion at the same depth being 17.75 tons. keel thickness = $1\frac{1}{4}$ "



Trade of ship.

Names of sister ships.

Not known.

Builder's name and yard number.

The Blyth Shipbuilding and Dry Dock Co. Ltd. Yard No. 168.

Owners.

The Ministry of War Transport.

Fee £

22-0-0.

Expenses

3-0-0



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