

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

Index No. 35893
(For London Office only).

Hoegh Rambler

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name ALFRED CLEGG No Name given to the vessel yet. Yard No. 650	Official Number ✓	Nationality and Port of Registry Norwegian ✓	Gross Tonnage 9428 ✓	Date of Build 1941	Port of Survey Copenhagen
Moulded Dimensions: Length 490'-7 ³ / ₄ " Breadth 65'-3" Depth 36'-0" 490.65 65.25 36.00 To center of main deck					Date of Survey August 1941
Moulded displacement at moulded draught = 85 per cent. of moulded depth 22080 tons					Surveyor's Signature S. Sanderson
Coefficient of fineness for use with Tables .79					Particulars of Classification +100 A 1 Carrying petroleum in bulk (contemplated)

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth ...	36.00	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	65'-3"
Stringer plate84	(36.07-32.71)3 = +10.08"		Standard Round of Beam = $\frac{B \times 12}{50}$	15.66"
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Ship's Round of Beam	15 ³ / ₄ "
$T \left(\frac{L-S}{L} \right) =$				Difference	.09"
Depth for Freeboard (D) =	36.07'	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{.09}{4} \times .618 = .01"$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...	106'-3 ¹ / ₂ "	106.29	7'-8"		106.29	Standard Height of Superstructure 7.50'
.. overhang ...	✓					.. R.Q.D. ✓
R.Q.D. enclosed ...	✓					Deduction for complete superstructure 42' ✓
.. overhang ...	✓					Percentage covered $\frac{S}{L} = 38.192\%$
Bridge enclosed...	34'-1"	34.08	7'-6"		34.08	.. $\frac{S_1}{L} = 38.192\%$
.. overhang aft ...	3.50	3.50			3.50	.. $\frac{E}{L} = 38.192\%$
.. overhang forward	✓					Percentage from Table, Line A. Tanker
F'cle enclosed ...	46'-8"	40.17	7'-6"		40.17	(corrected for absence of forecastle (if required)) 29.19 ✓
.. overhang ...	43'-52"	3.35			3.35	Percentage from Table, Line B.
Trunk aft ...	✓					(corrected for absence of forecastle (if required)) ✓
.. forward ...	✓					Interpolation for bridge less than 2L (if required) ✓
Tonnage opening aft ...	✓					Deduction = 42' x .2919 = -12.26" ✓
.. forward	✓					
Total ...	187.39	187.39			187.39	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	59.07	1		59.07	49"	49	1		49.00	Mean actual sheer aft = Def. ✓
1/4 L from A.P. ...	26.28	4		105.12	6"	6	4		24.00	Mean actual sheer forward = Def. ✓
1/2 L " ...	6.50	2		13.00	0	0	2		0	Mean standard sheer aft = Def. ✓
Amidships ...	0	4		0	0	0	4		0	Mean standard sheer forward = Def. ✓
3/4 L from F.P. ...	12.99	2		25.98	0	0	2		0	Length of enclosed superstructure forward of amidships = Tanker ✓
1/4 L " ...	52.57	4		210.28	20"	20	4		80.00	.. aft of " = Tanker ✓
F.P. ...	118.13	1		118.13	102"	102	1		102.00	
Total ...				531.58					255.00	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{276.58}{18} \left(\frac{.75 - .19}{.56} \right) = +8.60"$
If limited on account of midship superstructure.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.79 + .68}{1.36} = \frac{1.47}{1.36}$
Depth to Freeboard Deck = 36.07'	$\Delta = 20050 \text{ ts.}$	Depth Correction ... 10.08' ✓
Summer freeboard = 8.21'	Tons per inch immersion at summer load water line	Deduction for superstructures ... 12.26' ✓
Moulded draught (d) = 27.86'	T = 66.5	Sheer correction ... 8.60' ✓
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40T}$ inches	Round of Beam correction01' ✓
Winter freeboard = $\frac{d}{4}$ inches = 6.97' 177 ¹ / ₄ " ✓	= 7.54" = 19 ¹ / ₂ " ✓	Correction for Thickness of Deck amidships ... ✓
Addition for Winter North Atlantic Freeboard (if required) = 4.90" + 6.97" = 11.87" 301 ¹ / ₄ " ✓		Other corrections, scantlings, etc. ... ✓
		18.68' 12.27' + 6.41' ✓
		Summer Freeboard = 98.57" ✓

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

Tropical Fresh Water Line above Centre of Disc ... 14 ¹ / ₂ " 369 ¹ / ₄ " ✓	Tropical Fresh Water Freeboard ... 2135' 8'-2 ¹ / ₂ " ✓
Fresh Water Line " " ... 7 ¹ / ₂ " 192' ✓	Fresh Water " " ... 2312' 7'-7" ✓
Tropical Line " " ... 7" 177' ✓	Tropical " " ... 2327' 7'-7 ¹ / ₂ " ✓
Winter Line below " " ... 7" 177' ✓	Winter " " ... 2681' 8'-9 ¹ / ₂ " ✓
Winter North Atlantic Line " " ... 11 ³ / ₄ " 301' ✓	Winter North Atlantic " " ... 2805' 9'-2 ¹ / ₄ " ✓

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

✓

Names of sister ships

none.

Builder's name and yard number

Burns & Wain Yard No. 650.

Owners

Leif Höegh, Oslo.

Fee £



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Foundation