

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name K O C K U M S No. 366	Official Number	Nationality and Port of Registry Norwegian	Gross Tonnage	Date of Build	Port of Survey Gothenburg
Moulded Dimensions: Length 152.400 ✓	Breadth 20.270 ✓	Depth 11836 ✓			Date of Survey 8th May, 1951
Freeboard Length 152.650					Surveyor's Signature <i>M. Burns</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 24205 tons					Particulars of Classification 100A1 Carrying Petroleum in Bulk
Coefficient of fineness for use with Tables = .771 ✓					

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	11836 ✓	(a) Where D is greater than Table depth (D - Table depth) B =	8.33(11.860 - 10.177)30 = + 421 ✓	Moulded Breadth (B)	20270
Stringer plate	24	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	-	Standard Round of Beam = $\frac{B \times 11}{50}$	405
Sheathing on exposed deck				Ship's Round of Beam	475
$T \left(\frac{L-S}{L} \right) =$				Difference	70
Depth for Freeboard (D) =	11860	If restricted by superstructures	-	Restricted to	
				Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{70}{4} \times .5875 = - 10.$	

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	31535 ✓	31535	2438		31535 ✓
» overhang					
R.Q.D. enclosed					
» overhang					
Bridge enclosed	13210 ✓	13210	2438		13210 ✓
» overhang aft					
» overhang forward					
Fore enclosed	18215 ✓	18215	2743		18215 ✓
»					
Trunk aft					
» forward					
Tonnage opening aft					
» forward					
Total	62960	62960			62960 ✓

Standard Height of Superstructure	2290
» » R.Q.D.	-
Deduction for complete superstructure	1067
Percentage covered $\frac{S}{L} =$	
» » $\frac{S_1}{L} =$	41.25 ✓
» » $\frac{E}{L} =$	
Percentage from Table, Line A Tanker =	32.25 ✓
(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 = 1067 x .3225 = - 344 ✓	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	1525	1		1525	914	914	1		914 ✓
1/6 L from A.P.	677	4		2708	146	146	4		584 ✓
2/6 L »	168	2		336	-	-	2		-
Amidships	-	4		-	-	-	4		-
2/6 L from F.P.	339	2		678	-	-	2		-
1/6 L »	1355	4		5420	-	-	4		-
F.P.	3025	1		3052	1676	1676	1		1676 ✓
Total				13719 ✓					3174 ✓

Mean actual sheer aft	
Mean standard sheer aft	Deficient ✓
Mean actual sheer forward	
Mean standard sheer forward	
Length of enclosed superstructure forward of amidships =	
» » aft of » =	Tanker

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{105.45}{18} (.75 - 2062) = + 318.6$ ✓
If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard.	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ Tons per inch immersion at summer load water line $T =$ Deduction = $\frac{\Delta}{40 T}$ inches	TABULAR FREEBOARD corrected for thickness of deck Correction for coefficient $\frac{.771 + .68}{1.36} = \frac{1.451}{1.36}$ ✓	2228 ✓ 2377 ✓
Depth to Freeboard Deck = 11.860		Depth Correction	421 ✓
Summer freeboard = 2.763		Deduction for superstructures	- 344 ✓
29° - 10.1/4" Moulded draught (d) = 9.097 ✓		Sheer correction	319 ✓
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches =		Round of Beam correction	- 10 ✓
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships	-
		Other corrections, scantlings, etc.	-
		Summer Freeboard =	2763 ✓

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, ~~WOOD~~ Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard
Fresh Water Line » »	Fresh Water »
Tropical Line » »	Tropical »
Winter Line below » »	Winter »
Winter North Atlantic Line » »	Winter North Atlantic »

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.

Verhang

Trade of ship

Names of sister ships Kockums 363, except for length of poop.

Builder's name and yard number

Owners

Fee Kr.

Order
with
21.5.52



© 2021

Lloyd's Register
Foundation