

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

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

Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name P.S. GERBRANDY	Official Number	Nationality and Port of Registry DUTCH THE HAGUE	Gross Tonnage ±12800	Date of Build 1960	Port of Survey ROTTERDAM
Moulded Dimensions: Length 163.90 Breadth 21.89 Depth 12.00 m					Date of Survey 6-'60
Freeboard Length 163.90					Surveyor's Signature <i>[Signature]</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons					Particulars of Classification 100A1
Coefficient of fineness for use with Tables .794					OIL TANKER
					Class Contemplated

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 12000	(a) Where D is greater than Table depth (D-Table depth) R = 8.33 (12022-10.932) 30 = 272 m.m.	Moulded Breadth (B) 21890
Stringer plate ... 22	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____	Standard Round of Beam = $\frac{B \times 100}{50} = \frac{21890 \times 100}{50} = 4378$
Wood Sheathing on exposed deck	If restricted by superstructures _____	Ship's Round of Beam = 400
$T \left(\frac{L-S}{L} \right) =$		Difference 38
Poop 20 mm asphalt		Restricted to _____
Depth for Freeboard (D) = 12022		Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{38^2}{4} \times \left(1 - \frac{3610}{16390} \right) = 6 \text{ m.m.}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed } Equiv.:	38 598	38 598	2500	—	38 598
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	20 100	20 100	2500	—	20 100
" overhang ...	1 000	500	"		500
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	59 698	59 198			59 198

Standard Height of Superstructure **2290**

" " R.Q.D. _____

Deduction for complete superstructure **1067**

Percentage covered $\frac{S}{L} = \frac{38598}{16390} = 36.41$

" " $\frac{S_1}{L} = \frac{38598}{16390} = 36.10$

Percentage from Table, **Tanker** = **27.10**
 (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 = $27.10 \times 1067 = 289 \text{ m.m.}$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	1620	1	1620	1051	1261	1	1261		
$\frac{1}{2}L$ from A.P. ...	720	4	2880	244	258	4	1032		
$\frac{3}{4}L$ " ...	180	2	360	0	0	2	0		
Amidships ...	0	4	0	0	0	4	0		
$\frac{1}{4}L$ from F.P. ...	360	2	720	0	0	2	0		
$\frac{1}{2}L$ " ...	1439	4	5756	57	57	4	228		
F.P. ...	3240	1	3240	1375	1375	1	1375		
Total ...			14576				3896		

Mean actual sheer aft = _____
 Mean standard sheer aft = _____

Mean actual sheer forward = _____
 Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = _____ } **Tanker**
 " " aft of " = _____ } **Def. Sheer**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{10680}{18} \left(\frac{.75 - .1821}{2} \right) = 337 \text{ m.m.}$

If limited on account of midship superstructure.

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **12022** mm

Summer freeboard = **2970** mm

Moulded draught (d) = **9052** mm

Keel allowance = _____

Extreme draught = _____

Deduction for Tropical freeboard and addition for = _____

Winter freeboard = $\frac{d}{48} \text{ inches} = 109 = 19 \text{ c.m.}$

Addition for Winter North Atlantic Freeboard (if required) = $109 + 137 = 326 = 33 \text{ c.m.}$

Deduction for Fresh Water.

Displacement in salt water at summer load water line $\Delta = 25486 \text{ m}^3$

Immersion at summer load water line $T = 30.966$

Deduction = $\frac{\Delta}{40 T} \text{ inches m.m.} = \frac{25486}{40 \times 30.966} = 206 = 21 \text{ c.m.}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **1.474/1.36**

	+	-
Depth Correction	272	—
Deduction for superstructures	—	289
Sheer correction	337	—
Round of Beam correction	6	—
Correction for Thickness of Deck amidships	—	—
Other corrections, scantlings, etc.	—	—
Summer Freeboard	615	289 + 326

2971 m.m.

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

Tropical Fresh Water Line above Centre of Disc	40	c.m.	15 3/4	Tropical Fresh Water Freeboard	257	c.m.	2021 1/4
Fresh Water Line	21	c.m.	8 1/4	Fresh Water	276	c.m.	9' 0 3/4
Tropical Line	19	c.m.	7 1/2	Tropical	278	c.m.	9' 1 1/2
Winter Line below	13	c.m.	5 1/4	Winter	316	c.m.	10' 4 1/2
Winter North Atlantic Line	33	c.m.	12 3/4	Winter North Atlantic	330	c.m.	10' 6 1/4

P. S. GERBRANDY

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.

Poop: Length at side $\frac{2}{3} \times 2405$
Equivalent

$$\begin{array}{r} 36.995 \\ 1.603 \\ \hline 38.598 \end{array}$$

Actual Poop T.D. Height 2500
Standard " " 2290
Excess 210 m.m.

Sheer at A.P. = $1051 + 210 = 1261$
" " $\frac{1}{6} = 244 + 210 \left(\frac{9.665}{36.995} \right) =$
= 258 m.m.

Trade of ship Unlimited

Names of sister ships TAHAMA - TAMARA - FOREST HILL TOWN - LAKE

Builder's name and yard number VEROLME SHIPYARD ALBLASSERDAM N.V. YARDNO 633

Owners N.T.M. THE HAGUE

Fee f 660.-

For list of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)
see TAHAMA



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