

189 JUL 1947

Index No. 39173
(For London Office only.)

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

29980

Ship's Name CONFID	Official Number	Nationality and Port of Registry DUTCH ROTTERDAM	Gross Tonnage 249	Date of Build 1931	Port of Survey Ropendrecht
Moulded Dimensions: Length 36.25 m Breadth 6.90 m Depth 2.750 m					Date of Survey July 1947
Moulded displacement at moulded draught = 85 per cent. of moulded depth Could not be obtained tons					Surveyor's Signature C. J. de Jong
Coefficient of fineness for use with Tables .74 ASSUMED					Particulars of Classification 100 A contemplated

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth ...	2750 m	(a) Where D is greater than Table depth (D-Table depth) R =	8.33(2758-2417)9.154 = +26 m	Moulded Breadth (B)	6.9 m
Stringer plate ...	8 m	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	138 m
Sheathing on exposed deck				Ship's Round of Beam	217 m
$T \left(\frac{L-S}{L} \right) =$				Difference	79 m
Depth for Freeboard (D) =	2758	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right)$	29.5972 = -12 m

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	Standard Height of Superstructure
SUNK Poop enclosed ...	8300	1500			1.830 m
" overhang ...					R.Q.D. 949 m
R.Q.D. enclosed ...	8300	1500		8300	Deduction for complete superstructure 4.55
" overhang ...					Percentage covered $\frac{S}{L} = 43.876$
Bridge enclosed ...					" $\frac{S_1}{L} = 40.28$
" overhang aft ...					" $\frac{E}{L} = 40.28$
" overhang forward ...	2600	1300	2250	1300	Percentage from Table, Line A. 23.73
F'cle enclosed ...	5000	5000	1950	5000	(corrected for absence of forecastle (if required))
" overhang ...					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 = 4.55 x 23.73 = 108 m
" " forward ...					
Total ...	15900	14600		14600	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	Mean actual shear aft	Mean standard shear aft
A.P. ...	556	1	556	1169	1169	1	1169		
$\frac{1}{2}L$ from A.P. ...	247	4	988	515	515	4	2060		
$\frac{3}{8}L$ " ...	62	2	124	96	96	2	192		
Amidships ...	-	4	-	0	-	4	-		
$\frac{3}{8}L$ from F.P. ...	124	2	248	233	233	2	466		
$\frac{1}{2}L$ " ...	494	4	1976	664	664	4	2656		
F.P. ...	1112	1	1112	1476	1476	1	1476		
Total ...			5004				8019		

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{3015}{18} (.75 - .2193) = -89 m$

If limited on account of midship superstructure. YES = NIL

If limited to maximum allowance of 1½ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = 2.758

Summer freeboard = 1.90

Moulded draught (d) = 2.568

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48}$ inches = 53 = 5 cm

Addition for Winter North Atlantic Freeboard (if required) =

NOT ASSIGNED

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

$\frac{d}{48} = 5 \text{ cm}$

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+	-
26	
	108
	12
26	120

Summer Freeboard = 221

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

Tropical Fresh Water Line above Centre of Disc ... 9 cm

Fresh Water Line " " ... 5 cm

Tropical Line " " ... 4 cm

Winter Line below " " ... 4 cm

Winter North Atlantic Line " " NOT ASSIGNED

Tropical Fresh Water Freeboard ... 10 cm

Fresh Water " " ... 14 cm

Tropical " " ... 15 cm

Winter " " ... 23 cm

Winter North Atlantic " " NOT ASSIGNED

Confid.

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.

Freeboard assigned by Dutch authorities

summer 19
winter 23
freshwater 5

+ Trade of ship *European waters North West Coast of Africa till 14° degrees Northern Latitude including*
Canarian and Cape Verde Isles and Azores, Mediterranean, Black Sea and Red Sea to Berber

Names of sister ships *✓*

Builder's name and yard number *G. J. de Werff Bloemendaal*

Owners *A. Krijger Dordrecht 10° Rotterdam*

Fee £ *fl. 45.-* *JA*



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Foundation