

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

SHIP'S NAME N.V. Scheepswerf "Foxhol"		Official Number	Nationality and Port of Registry Netherl.	Gross Tonnage	Date of Build	Port of Survey
Yard No. 88						Date of Survey
cr. of rudder stock Moulded Dimensions: Length <u>43.0</u> Breadth <u>7.70</u> Depth <u>3.20</u> Mr.						Surveyor's Signature <u>[Signature]</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <u>636 M3</u>						Particulars of Classification <u>100 A 1</u>
Coefficient of fineness for use with Tables <u>.706</u>						

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 3.200	(a) Where D is greater than Table depth (D - Table depth) R = $8.33(3.208 - 2.867)10.859 = (+)31$ mm.	Moulded Breadth (B) <u>7.70</u>
Stringer plate 8	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =	Standard Round of Beam = $\frac{B \times 100}{50} = 154$
Sheathing on exposed deck	If restricted by superstructures	Ship's Round of Beam = <u>195</u>
$T \left(\frac{L-S}{L} \right) =$		Difference = <u>(+) 41</u>
Depth for Freeboard (D) = <u>3.208</u>		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{41}{4} \times .5628 = (-)6$ mm.

DEDUCTION FOR SUPERSTRUCTURES.

Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed 12.10	12.10	1850	-	12.10	Standard Height of Superstructure <u>1830 mm.</u>
" overhang					" " R.Q.D.
R.Q.D. enclosed					Deduction for complete superstructure <u>511 mm.</u>
" overhang					Percentage covered $\frac{S}{L} = 43.72$
Bridge enclosed					" " $\frac{S_1}{L} = \text{do.}$
" overhang aft					" " $\frac{E}{L} = \text{do.}$
" overhang forward					Percentage from Table, Line A. <u>26.66</u>
F'ole enclosed 6.70	6.70	1830	-	6.70	(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 = $.2666 \times 511 = 136$ mm.
" " forward					
Total 18.80	18.80			18.80	

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P.	612	1	612	630	630	1	630	Mean actual shear aft = <u>>1</u>
$\frac{1}{2}L$ from A.P.	272	4	1088	280	280	4	1120	Mean actual shear forward = <u>>1</u>
$\frac{3}{8}L$ "	68	2	136	60	60	2	120	
Amidships	-	4	-	-	-	4	-	
$\frac{3}{8}L$ from F.P.	136	2	272	140	140	2	280	Length of enclosed superstructure forward of amidships =
$\frac{1}{2}L$ "	544	4	2176	570	570	4	2280	" " aft of " =
F.P.	1224	1	1224	1260	1260	1	1260	Nil
Total			5508				5690	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{182}{18} (.75 - .2186) = (-)5$ mm.
 If limited on account of midship superstructure. yes; nil 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. Depth to Freeboard Deck = <u>3.208</u> Summer freeboard = <u>.260</u> Moulded draught (d) = <u>2.948</u> Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <u>9.67"</u> Addition for Winter North Atlantic Freeboard (if required) = <u>9' - 8"</u>	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 Flush Deck (if required) Correction for coefficient $\frac{.706 + .68}{1.36} = \frac{1.386}{1.36}$ Depth Correction <u>31</u> Deduction for superstructures <u>136</u> Sheer correction <u>6</u> Round of Beam correction <u>6</u> Correction for Thickness of Deck amidships Other corrections, scantlings, etc. 31 142 (-) 111 mm. Summer Freeboard = <u>261 mm.</u> 26 c.m.
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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	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.

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £

Handwritten initials



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Foundation