

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

N° 21.

Ship's Name M.V. "KINGFISHER"	Official Number 166469	Nationality and Port of Registry BRITISH LONDON	Gross Tonnage 275.74	Date of Build 1938/5	Port of Survey Groningen
Moulded Dimensions: Length 143' 1" Breadth 25' 7" Depth 8' 6 3/8" ✓ DEPTH TO SHELTERDECK = 15' 3" ✓					Date of Survey 17-5-'38
Moulded displacement at moulded draught = 85 per cent. of moulded depth 532.96 tons					Surveyor's Signature P. H. Hehrmijer
Coefficient of fineness for use with Tables .703 ✓					Particulars of Classification +100 A1. with freeboard class contemplated ✓

Depth for Freeboard (D). .53	Depth correction.	Round of Beam correction.
Moulded depth ... 8' 6 3/8"	(a) Where D is greater than Table depth (D-Table depth) R =	Moulded Breadth (B) 25' 7"
Stringer plate28"	✓	Standard Round of Beam = $\frac{B \times 12}{50} =$ 6.14 ✓
Sheathing on exposed deck ✓	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Ship's Round of Beam FREEBOARD = 7.10 ✓
$T \left(\frac{L-S}{L} \right) =$	(9.54-8.55) × 1.01 = 1.09" ✓	Difference Deficiency 5.14 ✓
Depth for Freeboard (D) = 8.55 ✓	If restricted by superstructures ✓	Restricted to
		Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L}) = \frac{5.14(0.189)}{4} = .02$ ✓

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	42' 0"	42.00	✓	✓	42.00
" overhang ...	3"	.13	✓	✓	.13
R.Q.D. enclosed					
" overhang	10"	.83	✓	✓	.83
Bridge enclosed ...	95' 0"	95.83	✓	✓	95.83
" overhang aft	2' 2"	.17	✓	✓	.17
" overhang forward					
F'cle enclosed ...					
" overhang					
Trunk aft ...	4' 0"	1.67	✓	✓	1.67
" forward ...	5' 5"	1.67	✓	✓	1.67
Tonnage opening aft					
" forward					
Total ...	143.08	140.38			140.38

Standard Height of Superstructure	6.00 ✓
" " R.Q.D.	20.31 ✓
Deduction for complete superstructure	100.00 ✓
Percentage covered $\frac{S}{L} =$	98.11 ✓
" " $\frac{S_1}{L} =$	98.11 ✓
" " $\frac{E}{L} =$	97.67 ✓
Percentage from Table, Line A. (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 = .9767 × 20.31 =	19.84 ✓

SHEER CORRECTION.

NO SHEER FOR FREEBOARD DECK.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	24.31	1	✓	24.31	24.31	33.63	1	✓	33.63
1/4 L from A.P. ...	10.82	4	✓	43.28	10.82	14.97	4	✓	59.88
1/2 L " ...	2.67	2	✓	5.34	2.67	3.70	2	✓	7.40
Amidships ...	✓	4	✓	✓	0	✓	4	✓	✓
3/4 L from F.P. ...	5.34	2	✓	10.68	5.34	7.03	2	✓	14.06
3/4 L " ...	21.64	4	✓	86.56	21.64	28.43	4	✓	113.72
F.P. ...	48.62	1	✓	48.62	48.62	63.88	1	✓	63.88
Total ...				218.79					292.57

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - \frac{S}{2L}}{.75} \right) = \frac{73.78(1.75 - .5)}{18} = 1.02$ ✓

If limited on account of midship superstructure. ✓

Mean actual sheer aft	6.72
Mean standard sheer aft	6.00
= Excess	.72
Mean actual sheer forward	8.58
Mean standard sheer forward	6.00
= Excess	2.58
Length of enclosed superstructure forward of amidships =	6.88
" " aft of " =	6.88

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **8.55** ✓
Summer freeboard = **1.19** ✓
Moulded draught (d) = **8.38** ✓

Deduction for Tropical freeboard And addition for Winter freeboard = $\frac{d}{4}$ inches = **2.10 = 2"** ✓
Addition for Winter North Atlantic Freeboard (if required) = **2 + 2 = 4"** ✓

Deduction for Fresh Water.

Displacement in salt water at summer load water line = **2" FREEBOARD**.
 $\Delta = 651.82 T$ ✓
Tons per inch immersion at summer load water line
 $T = 7.45$
Deduction = $\frac{\Delta}{40T}$ inches
= **2.19** ✓
= **2 1/4"** ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

$103 + .68 = 1.383$ ✓
 $T.36 \quad 1.36$

	+	-
Depth Correction ...	1.09	✓
Deduction for superstructures ...	19.84	✓
Sheer correction ...	1.02	✓
Round of Beam correction02	✓
Correction for Thickness of Deck amidships ...	-	-
Other corrections, scantlings, etc. ...	-	-
	.02	21.95

Summer Freeboard = **21.93** ✓

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

Tropical Fresh Water Line above Centre of Disc ...	2 1/4"	Tropical Fresh Water Freeboard ...	0' - 2" limited ✓
Fresh Water Line " " ...	2 1/4"	Fresh Water " " ...	Minus 1/4" ✓
Tropical Line " " ...	2 1/4"	Tropical " " ...	Minus 1/4" ✓
Winter Line below " " ...	2"	Winter " " ...	0' - 2" limited ✓
Winter North Atlantic Line " " ...	4"	Winter North Atlantic " " ...	0' - 4" ✓

27 MAY 1938

Kingfisher.

37420 N.B.

pt. C.11.

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.

Tonnage opening

$$\begin{array}{r} \checkmark 15.25 - 15.62 \checkmark \\ \hline 15.25 \checkmark \end{array}$$

$$\begin{array}{r} 9.63' = .381 \checkmark \\ 15.25 \checkmark \end{array}$$

Trade of ship sea going trade

Names of sister ships -

Builder's name and yard number Scheepswerk "Gideon" J. Koster Shm. Groningen yard N°

Owners The General Steam Navigation Co Ltd.

Fee £ fl. 48,00



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Lloyd's Register
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