

LLOYD'S REGISTER OF SHIPPING  
UNITED WITH THE BRITISH CORPORATION REGISTER  
SURVEYS FOR FREEBOARD  
(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

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Ship's Name Scheepswerf "Kraaier" Zaandam	Official Number No.1168-70	Nationality and Port of Registry Netherlands	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 52.0 Breadth 8.80 Depth 3.85 Freeboard Length to cr. of rudderstock Moulded displacement at moulded draught = 85 per cent. of moulded depth 1075 M <sup>3</sup> tons Coefficient of fineness for use with Tables .718					Date of Survey 20.9.55 Surveyor's Signature <i>W. J. J. J.</i> Particulars of Classification +190 A1 <i>complementary</i>

<b>DEPTH FOR FREEBOARD (D).</b> Moulded depth ... 3.850 Stringer plate ... .010 Wood Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 3.86	<b>DEPTH CORRECTION.</b> (a) Where D is greater than Table depth (D-Table depth) R = 3.33(3.86-3.467)13.13 = +43 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	<b>ROUND OF BEAM CORRECTION.</b> Moulded Breadth (B) 8.8 Standard Round of Beam = $\frac{B \times 12}{50} = 176$ Ship's Round of Beam = 180 Difference 4 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left( 1 - \frac{S}{L} \right) = \frac{4}{4} (1 - .3813) = 1(-)$
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<b>DEDUCTION FOR SUPERSTRUCTURES.</b>					Standard Height of Superstructure 1830	
	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>i</sub> )	Height	Height Correction	Effective Length (E)	" " R.Q.D. --
Poop enclosed	12.65	12.650	2.10		12.650	Deduction for complete superstructure 586
" overhang	1.10	0.550	2.10		.550	Percentage covered $\frac{S}{L} = .3971$
R.Q.D. enclosed						" " $\frac{S_i}{L} =$
" overhang						" " $\frac{E}{L} = .3813$
Bridge enclosed						Percentage from Table, Line A. 21.91
" overhang aft						(corrected for absence of forecastle (if required))
" overhang forward						Percentage from Table, Line B.
F'cle enclosed	6.35	6.350	1.90		6.350	(corrected for absence of forecastle (if required))
" overhang	.55	.275	"		.275	Interpolation for bridge less than .2L (if required)
Trunk aft						Deduction = .2191 x 586 = 128 (-)
" forward						
Tonnage opening aft						
" " forward						
Total	20.65	19.825			19.825	

<b>SHEER CORRECTION.</b>							
Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S
A.P.	687	1		687	687	687	1
1/4 L from A.P.	305	4		1220	305	305	4
2/8 L	76	2		152	76	76	2
Amidships	0	4		0	0	0	4
3/8 L from F.P.	153	2		306	140	140	2
1/4 L	611	4		2444	620	620	4
F.P.	1374	1		1374	1492	1492	1
Total				6183			
Correction = $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = \frac{128}{18} (.75 - .1986) = 4m.$				Mean actual sheer aft = 1-0 Mean standard sheer aft = 1-0			
If limited on account of midship superstructure. nil				Mean actual sheer forward = 1-0 Mean standard sheer forward = 1-0			
				Length of enclosed superstructure forward of amidships = " " aft of " =			
				.5514			
				If limited to maximum allowance of 1 1/2 ins. per 100ft.			

<b>Deduction for Tropical Freeboard.</b> Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 3.860 Summer freeboard = .39 Moulded draught (d) = 3.47 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = Winter freeboard = $\frac{d}{4}$ inches = Addition for Winter North Atlantic Freeboard (if required) =	<b>Deduction for Fresh Water.</b> 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 =	<b>TABULAR FREEBOARD</b> corrected for Flush Deck (if required) Correction for coefficient $\frac{.68 + .718}{1.36} = 1.398$ 1.36 1.36 Depth Correction ... 43 Deduction for superstructures ... 128 Sheer correction ... 1 Round of Beam correction ... Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 43 129 86 (-) Summer Freeboard = 394
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<b>SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-</b>			
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	"