

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD

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

Received
 Index No.
 Govt. Copy
 Owners C11

Ship's Name "BRITA DAN"	Official Number 12269	Nationality and Port of Registry Danish Esbjerg	Gross Tonnage 3000 3065	Date of Build 1961	Port of Survey ROTTERDAM
Moulded Dimensions: Length 88.00 M Breadth 14.10 M Depth 8.00 M					Date of Survey while building
Freeboard Length 88.19 M (to 1/4 of rudderstock)					Surveyor's Signature K. van Duffelen
Moulded displacement at moulded draught = 85 per cent. of moulded depth 5824 M³					Particulars of Classification + 100 A1
Coefficient of fineness for use with Tables .689					Ice class 1 (contemplated)

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth ...	8000 mm.	(a) Where D is greater than Table depth (D-Table depth) R = 8.33 (8.030 - 5.879) = 22.27 = 399 mm.		Moulded Breadth (B)	14100 mm.
Stringer plate ...	13 mm.	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 2151		Standard Round of Beam = $\frac{B \times 12}{50}$	282
Wood Sheathing on exposed deck				Ship's Round of Beam	280 mm.
$T \left(\frac{L-S}{L} \right) = 63 \times \frac{23,690}{88,190} = 17 \text{ mm}$		If restricted by superstructures		Difference	2
Depth for Freeboard (D) = 8,030				Restricted to 5 x 9018	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S}{L} \right)$	NIL

DEDUCTION FOR SUPERSTRUCTURES.				
Mean Covered Length (S) M/M	Equivalent Enclosed Length (S _i)	Height M/M	Height Correction	Effective Length (E)
Poop enclosed ...				
" overhang ...				
R.Q.D. enclosed ...				
" overhang ...				
Bridge enclosed ...				
" overhang aft ...				
" overhang forward ...				
Fore enclosed ...	8660	8660	2130	8660
" overhang ...				
Trunk aft ...				
" forward ...				
Tonnage opening aft ...				
" " forward ...				
Total ...	8,660	8,660		8,660

Standard Height of Superstructure **1951**

" " R.Q.D. **880**

Deduction for complete superstructure **880**

Percentage covered $\frac{S}{L} =$ **9.82**

" " $\frac{S_i}{L} =$ **4.91**

" " $\frac{E}{L} =$

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 = **880 x 0.0491 = 43 mm.**

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate M/M	Effective Ordinate	S M	Product
A.P. ...	989	1	989	1029	1029	1	1029
1/4 L from A.P. ...	439	4	1756	438	438	4	1752
3/4 L " ...	110	2	220	111	111	2	222
Amidships ...	0	4	0	0	0	4	0
3/4 L from F.P. ...	220	2	440	217	217	2	434
1/4 L " ...	879	4	3516	868	868	4	3472
F.P. ...	1977	1	1977	2010	2010	1	2010
Total ...			8898				8919

Correction = Difference between sums of products $\left(\frac{.75 - S}{2L} \right) = \frac{21}{18} (.75 - .0491) = -1 \text{ mm}$ **NIL.**

If limited on account of midship superstructure. **YES, NIL**

If limited to maximum allowance of 1 1/2 ins. per 100ft. **NIL.**

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 8,013 Summer freeboard = 1,385 Moulded draught (d) = 6,628 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for = 138 Winter freeboard = $\frac{d}{48}$ inches = 140 mm Addition for Winter North Atlantic Freeboard (if required) = 138 + 51 = 189 = 190 mm	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta = 5699$ tons Tons per inch immersion at summer load water line $T = 11.0$ Deduction = $\frac{\Delta}{40 T}$ inches = 130 mm.	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{1.369}{1.36}$ Depth Correction ... 399 Deduction for superstructures ... 43 Sheer correction ... Round of Beam correction ... Correction for Thickness of Deck amidships ... 17 Other corrections, scantlings, etc. ... 399 60 + 339 Summer Freeboard = 1387
--	---	--

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

Tropical Fresh Water Line above Centre of Disc ...	270 mm	Tropical Fresh Water Freeboard ...	1385 mm
Fresh Water Line " " ...	130	Fresh Water " " ...	1255
Tropical Line " " ...	140	Tropical " " ...	1245
Winter Line below " " ...	140	Winter " " ...	1525
Winter North Atlantic Line " " ...	190	Winter North Atlantic " " ...	1575

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 Unrestricted

Names of sister ships "RITVA DAN "

Builder's name and yard number Bijkers Aannemingsbedrijf Gorinchem Yard No. 163

Owners Messrs. J. Lauritsen Hammerensgade Copenhagen K.

Fee 450.- : 3 AUG. 1961

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)

Construction plan No. 3^A ✓
Cross sections plan No. 2^A ✓

(2)



© 2020

Lloyd's Register
Foundation