

TIMBER

For LONDON OFFICE ONLY

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 CAPELLA	Official Number	Nationality and Port of Registry NETHERLANDS GRONINGEN	Gross Tonnage	Date of Build 1956	Port of Survey
Moulded Dimensions: Length 52.000 m Breadth 8.80 m Depth 3.85 m					Date of Survey 16.11.56
Freeboard Length 52.000 m					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) 1057 m³ tons					Particulars of Classification + 100 A1.
Coefficient of fineness for use with Tables .706					

DEPTH FOR FREEBOARD (D). Moulded depth 3850 Stringer plate 10 Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 3860	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = + 43 (b) Where D is less than Table depth (if allowed) (Table depth-D) R = If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) Standard Round of Beam = $\frac{B \times 12}{50} =$ Ship's Round of Beam = Difference Restricted to Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_i}{L} \right) =$ NIL.
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DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed					
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	19.550	19.043			19.043

Standard Height of Superstructure **1830**

" " R.Q.D. **586**

Deduction for complete superstructure **586**

Percentage covered $\frac{S}{L} =$ **37.60**

" " $\frac{S_i}{L} =$ **36.62**

" " $\frac{E}{L} =$ **59.36**

Percentage from Table, Line A. **TIMBER** **59.36**
(corrected for absence of forecabin (if required))

Percentage from Table, Line B.
(corrected for absence of forecabin (if required))

Interpolation for bridge less than .2L (if required)

Deduction = **586 x .5936 = 348 mm.**

SHEER CORRECTION.							
Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.		1				1	
$\frac{1}{4}L$ from A.P.		4				4	
$\frac{2}{4}L$ "		2				2	
Amidships	0	4	0	0	0	4	0
$\frac{3}{4}L$ from F.P.		2				2	
$\frac{1}{4}L$ "		4				4	
F.P.		1				1	
Total							

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) =$ **-5 mm.**
If limited on account of midship superstructure. **YES. NIL.**

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 3.860 Summer freeboard = .170 Moulded draught (d) = 3.690 Keel allowance = Extreme draught = Deduction for Tropical freeboard and addition for 48 = 8 cm. Winter freeboard = $\frac{d}{36}$ inches = 10 cm. Addition for Winter North Atlantic Freeboard (if required) =	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 = 6 cm.	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient 1.386 / 1.36 <table border="1"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction</td> <td>43</td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td></td> <td>348</td> </tr> <tr> <td>Sheer correction</td> <td></td> <td></td> </tr> <tr> <td>Round of Beam correction</td> <td></td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td></td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td></td> <td></td> </tr> <tr> <td></td> <td>43</td> <td>348</td> </tr> </table> Summer Freeboard = 171		+	-	Depth Correction	43		Deduction for superstructures		348	Sheer correction			Round of Beam correction			Correction for Thickness of Deck amidships			Other corrections, scantlings, etc.				43	348
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TIMBER SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

TIMBER Tropical Fresh Water Line above Centre of Disc ... 37	TIMBER Tropical Fresh Water Freeboard ... 17 cm.
" Fresh Water Line " " ... 29	" Fresh Water " " ... 11
" Tropical Line " " ... 31	" Tropical " " ... 9
" Winter Line below ABOVE " " ... 13	" Winter " " ... 27
" Winter North Atlantic Line " " ... 12	" Winter North Atlantic " " ... 52

27.11.56

SUMMER LINE ABOVE

23