

AMENDED

M.M. 12725

For LONDON OFFICE ONLY

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

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

Received

Index No.

Govt. Copy

Owners C11

Ship's Name MARLY I	Official Number	Nationality and Port of Registry Belgian Antwerp	Gross Tonnage 9929	Date of Build 1958	Port of Survey
Moulded Dimensions: Length 19.20M Breadth 13.05M Depth 13.05M					Date of Survey
Freeboard Length 143.10 to C.F.S.					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 24265 metr. tons (excluding bossing)					Particulars of Classification + 100 A1
Coefficient of fineness for use with Tables .777					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	13.050	(a) Where D is greater than Table depth (D - Table depth) R =	8.33 (13.078 - 9.54) 30 = + 884mm	Moulded Breadth (B)	19.200M
Stringer plate028	(b) Where D is less than Table depth (if allowed) (Table depth - D) R =		Standard Round of Beam = $B \times \frac{50}{100}$	384
Wood Sheathing on exposed deck				Ship's Round of Beam <i>equivalent</i>	407
$T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures		Difference	23
Depth for Freeboard (D) = 13.078				Restricted to	
				Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right)$	$\frac{23}{4} \times .6913 = 4mm$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	31.510	31.510	2.450	—	31.510
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'ole enclosed <i>equivalent</i>	12.648	12.648	2.580	—	12.648
" overhang112	.056			.056
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	44.270	44.214			44.214

Standard Height of Superstructure **2290 mm**

" " R.Q.D. —

Deduction for complete superstructure **1067 mm**Percentage covered $\frac{S}{L} = 30.94$
 $\frac{S_1}{L} = 30.90$
Percentage from Table, Line A. **15.76**

(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 = $1067 \times .1576 = 168mm$

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1446	1	1446	297	457	1	457
$\frac{1}{2}$ L from A.P.	642	4	2568	3	12	4	48
$\frac{3}{4}$ L "	161	2	322	0	0	2	0
Amidships	0	4	0	0	0	4	0
$\frac{3}{4}$ L from F.P.	321	2	642	0	0	2	0
$\frac{1}{2}$ L "	1285	4	5140	17	17	4	68
F.P.	2892	1	2892	695	695	1	695
Total			13010				1268

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 " = **Nil Def. Sheer**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{11742}{18} (.75 - .1547) = 388mm$

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.

1500 mm below

Depth to Freeboard Deck = **18.578**Summer freeboard = **2.526**Moulded draught (d) = **9.052**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for =

Winter freeboard = **189mm**

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 19874$

Tons per inch immersion at summer load water line

T = **60.90**Deduction = $\frac{\Delta}{40 T}$ inches= **207mm**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **1.457**

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for thickness of Deck Amidships

Other corrections, scantlings, etc. to

correspond to a summer moulded draught of 9.052mm

1500 mm below

Deck Line

Wood, Steel, Deck

count to side

2526mm

2130mm

2319mm

2337mm

2715mm

not required

Winter North Atlantic

28 DEC 1962

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line

Tropical Fresh Water Line above Centre of Disc	396mm	Tropical Fresh Water Freeboard	2130mm
Fresh Water Line	207mm	Fresh Water	2319mm
Tropical Line	189mm	Tropical	2337mm
Winter Line below	189mm	Winter	2715mm
Winter North Atlantic Line	189mm	Winter North Atlantic	not required