

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

"EFDEMON"

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name AMSTEL DIEP EX ROBERT FRUIN.	Official Number	Nationality and Port of Registry NETHERLANDS GREEK GRAVENHAGE	Gross Tonnage 7176	Date of Build 1943	Port of Survey
Moulded Dimensions: Length 127.32 Breadth 17.342 Depth 11.379 To CENTRE of RUDDER STOCK					Date of Survey 23.10.47.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 16300 M³ tons					Surveyor's Signature
Coefficient of fineness for use with Tables 763.					Particulars of Classification 100 A1. contemplated

DEPTH FOR FREEBOARD (D).

Moulded depth **11.379**
 Stringer plate **18**
 Sheathing on exposed deck
 $T \left(\frac{L-S}{L} \right) =$
 Depth for Freeboard (D) = **11.397**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
 (D-Table depth) R = **8.33(11.397-8.488)30 = +727 mms**
 (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) **17.342**
 Standard Round of Beam = $\frac{B \times 12}{50} = \frac{347}{50} = 347$
 Ship's Round of Beam **equivalent = 360**
 Difference **13**
 Restricted to
 Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{13}{4} = -3.25 \text{ mms}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed
" overhang
R.Q.D. enclosed
" overhang
Bridge enclosed
" overhang aft
" overhang forward
Fore enclosed
" overhang
Trunk aft
" forward
Tonnage opening aft
" forward
Total

Standard Height of Superstructure

R.Q.D.

Deduction for complete superstructure

Percentage covered $\frac{S}{L} =$ " $\frac{S_1}{L} =$ " $\frac{E}{L} =$

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 = **NIL.**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	1314	1	1314	1375	1375	1	1375
$\frac{1}{4}L$ from A.P.	584	4	2336	610	610	4	2440
$\frac{2}{4}L$	146	2	292	127	127	2	254
Amidships	-	4	-	-	-	4	-
$\frac{3}{4}L$ from F.P.	292	2	584	298	298	2	596
$\frac{1}{4}L$	11.68	4	4672	1213	1213	4	4852
F.P.	2629	1	2629	2676	2676	1	2676
Total			11.827				12193

Mean actual sheer aft = **Excess.**
Mean standard sheer aftMean actual sheer forward = **Excess.**
Mean standard sheer forwardLength of enclosed superstructure forward of amidships = **Flush Deck.**
" aft of " = **Flush Deck.**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{366}{18} \times .75 = -15 \text{ mms.}$
 If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Ft.
 Depth to Freeboard Deck = **11.397**
 Summer freeboard = **2.960**
 Moulded draught (d) = **8.437**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{48} \text{ inches} = 17.6 = 18 \text{ cms.}$

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line

 $\Delta = 14246$

Tons per inch immersion at summer load water line

 $T = 48.71$ Deduction = $\frac{\Delta}{40 T} \text{ inches}$ $= 7.31$ **= 19 cms.**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient

Depth Correction

Deduction for superstructures

Sheer correction

Round of Beam correction

Correction for Thickness of Deck amidships

Other corrections, scantlings, etc.

+

-

727

-

-

15

3

-

-

727

18

+ 709

Summer Freeboard = **2952**

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

Tropical Fresh Water Line above Centre of Disc	...	37 cms
Fresh Water Line	"	19 "
Tropical Line	"	18 "
Winter Line	below	18 "
Winter North Atlantic Line	"	1 "

Tropical Fresh Water Freeboard

Fresh Water

Tropical

Winter

Winter North Atlantic

2243

259

277

278

314

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