

see "ALBERGEN"
43693

GRO. RPT. No. 943

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 13 APR 1954

Index No.

Govt. Copy

Owners C11

Ship's Name GRAMSBERGEN	Official Number	Nationality and Port of Registry DUTCH ROTTERDAM	Gross Tonnage 500 499	Date of Build 1954	Port of Survey GRONINGEN
Moulded Dimensions: Length 55 600 Breadth 9 000 Depth 4 160					Date of Survey April, 1954
Freeboard Length 55 600					Surveyor's Signature <i>[Signature]</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 1240 m³ (excluding bossing)					Particulars of Classification <input checked="" type="checkbox"/> 100 A1 Contemplated
Coefficient of fineness for use with Tables .701					

DEPTH FOR FREEBOARD (D).

Moulded depth ... **4160**

Stringer plate ... **10**

Wood Sheathing on exposed deck

$T \left(\frac{L-S}{L} \right) =$

Poop **65 4/4m**

Depth for Freeboard (D) = **4170**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D-Table depth) R =
8.33(4170-3707)/14.04 = +54 mm

(b) Where D is less than Table depth (if allowed)
(Table depth-D) R =
463

If restricted by superstructures

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) **9000**

Standard Round of Beam = $\frac{B \times 2}{50} = \frac{18000}{50} = \mathbf{360}$

Ship's Round of Beam **210**

Difference **+30**

Restricted to

Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right) = \frac{30}{4} \times 5540 = \mathbf{4155}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	16500	16500	2000	-	16500
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	8300	8300	2000/480	-	8300
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	24800	24800			24800

Standard Height of Superstructure **1.830 m.**

" " R.Q.D. **616 mm**

Deduction for complete superstructure **616 mm**

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

" " $\frac{S_1}{L} =$

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

Percentage from Table, Line A. **27.41**

(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 = **616 x 27.41 = 169 mm**

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	717	1	717	627	627	1	627
1/8 L from A.P. ...	319	4	1276	316	316	4	1264
2/8 L " ...	80	2	160	76	76	2	152
Amidships ...	0	4	0	0	0	4	0
2/8 L from F.P. ...	159	2	318	3	3	2	6
1/8 L " ...	637	4	2548	74	74	4	296
F.P. ...	1434	1	1434	207	207	1	207
Total ...			6453				2552

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 = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{3901(75-223)}{18} = \mathbf{+114 mm}$

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.**Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = **4.170**

Summer freeboard = **.516**

Moulded draught (d) = **3.660**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{48}$ inches = **8 cm**

Addition for Winter North Atlantic Freeboard (if required) = **5+8 = 13 cm**

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = \mathbf{1286 m^3}$

Displacement in fresh water at summer load water line

$T = \mathbf{4.25 m^3/cm}$

Deduction = $\frac{\Delta}{40 T}$ inches

= **8 cm**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.701+.68}{1.36} = \mathbf{1.381}$

Depth Correction ... **54**

Deduction for superstructures ... **169**

Sheer correction ... **114**

Round of Beam correction ... **4**

Correction for Thickness of Deck amidships ...

Other corrections, scantlings, etc. ...

Summer Freeboard = **514 mm**

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

Tropical Fresh Water Line above Centre of Disc **16 cm**

Fresh Water Line " **8 cm**

Tropical Line " **8 cm**

Winter Line below " **8 cm**

Winter North Atlantic Line " **13 cm**

Tropical Fresh Water Freeboard **35 cm**

Fresh Water " **43 cm**

Tropical " **43 cm**

Winter " **59 cm**

Winter North Atlantic " **6.4 cm**

GRAMS BERGEN

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 Ocean Trade

Names of sister ships ALBERGEN, BEEKBERGEN, DRIEBERGEN.

Builder's name and yard number Gebr. Van Diepen, yard no 929

Owners N.v. Zuidholl. Sch. Mij, Rotterdam

Fee £190.-

For list of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)
see "ALBERGEN"



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