

Gro. Bmt 2000

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 8 OCT 1959
 Index No.
 Govt. Copy
 Owners C11

Ship's Name <u>"SOLVANTI"</u>	Official Number —	Nationality and Port of Registry <u>Belgian</u> <u>Antwerp</u>	Gross Tonnage 505 <u>491</u>	Date of Build <u>1959</u>	Port of Survey <u>Haren - Groningen</u>
Moulded Dimensions: Length <u>55.00^m</u> Breadth <u>9.15^m</u> Depth <u>3.645^m</u> Freeboard Length <u>55.225^m</u>					Date of Survey <u>while building</u>
Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) <u>1061</u> ^{tons}					Surveyor's Signature <u>W. J. J. J. J.</u>
Coefficient of fineness for use with Tables <u>.68</u> (Actual <u>.678</u>)					Particulars of Classification <u>A1</u> (contemplated)

DEPTH FOR FREEBOARD (D). Moulded depth <u>3.645</u> Stringer plate <u>0.11</u> Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ — Depth for Freeboard (D) = <u>3.656</u>	DEPTH CORRECTION. (a) Where D is greater than Table depth (D—Table depth) R = (b) Where D is less than Table depth (if allowed) (Table depth—D) R = $8.33(3.692 - 3.656)13.95 = 3 \text{ mm}$ If restricted by superstructures YES $3 \times \frac{1070}{1078} = 3 \text{ mm}$	ROUND OF BEAM CORRECTION. Moulded Breadth (B) <u>9150</u> Standard Round of Beam = $\frac{B \times B}{50} =$ <u>183</u> Ship's Round of Beam = <u>180</u> Difference = <u>3</u> Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{3}{4} \times (1 - .9830) = \text{NIL}$
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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 <u>see sketch</u>	<u>30475</u>	<u>30475</u>	<u>1070</u>	<u>1070/1078</u>	<u>30249</u>
" overhang "					
Bridge enclosed <u>see sketch</u>	<u>895</u>	<u>448</u>	<u>2120</u>		<u>448</u>
" overhang aft "					
" overhang forward "			<u>2120</u>		
F'cle enclosed	<u>22550</u>	<u>22550</u>	<u>2120</u>		<u>22550</u>
" overhang <u>see sketch</u>	<u>75</u>	<u>38</u>	<u>2120</u>		<u>38</u>
Trunk aft					
" forward <u>amidships</u>	<u>1230</u>	<u>777</u>			<u>777</u>
Tonnage opening aft					
" forward					
Total	<u>55225</u>	<u>54288</u>			<u>54032</u>

Standard Height of Superstructure	<u>1.830 m</u>
" " R.Q.D.	<u>1.078 m</u>
Deduction for complete superstructure	<u>613 mm</u>
Percentage covered $\frac{S}{L} =$	<u>100.00</u>
" " $\frac{S_i}{L} =$	<u>98.30</u>
" " $\frac{E}{L} =$	<u>97.84</u>
Percentage from Table, Line A & B	<u>97.34</u>
(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 = $613 \text{ mm} \times .9734$	<u>597 mm</u>

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	714	1	714	<u>605</u>	<u>605</u>	1	605		
$\frac{1}{4}L$ from A.P.	317	4	1268	<u>209</u>	<u>209</u>	4	836		
$\frac{2}{4}L$	79	2	158	<u>0</u>	<u>0</u>	2			
Amidships	0	4	0	<u>0</u>	<u>0</u>	4	0		
$\frac{3}{4}L$ from F.P.	159	2	318	<u>0</u>	<u>0</u>	2	0		
$\frac{1}{4}L$	635	4	2540	<u>38</u>	<u>38</u>	4	152		
F.P.	1428	1	1428	<u>175</u>	<u>175</u>	1	175		
Total			<u>6426</u>				<u>1768</u>		

Mean actual sheer aft =
 Mean standard sheer aft = } Deficient

Mean actual sheer forward =
 Mean standard sheer forward = }

Length of enclosed superstructure forward of amidships =
 L aft of " = } Deficient
Shears

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{4658}{18} \left(.75 - .59 \right) = 65 \text{ mm}$
 If limited on account of midship superstructure. 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.

RAISED QUARTER
 Depth to Freeboard Deck = 4.726
 Summer freeboard = 1.126
 Moulded draught (d) = 3.600
 Keel allowance =
 Extreme draught =
 Deduction for Tropical freeboard and addition for #
 Winter freeboard = $\frac{d}{48}$ inches = 75 mm

Addition for Winter North Atlantic Freeboard (if required) = 51.775 = 126 mm

Deduction for Fresh Water.

Displacement in salt water at summer load water line
 $m^3 \Delta =$ 1264
 Tons per inch immersion at summer load water line
 $T =$ 4.12
 Deduction = $\frac{\Delta}{40 T}$ inches = 77 mm

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient NIL

Depth Correction ...
 Deduction for superstructures ...
 Sheer correction ...
 Round of Beam correction ...
 Correction for Thickness of Deck amidships ...
 Other corrections, scantlings, etc. To CORRECTED TO SUMMER M^{LD} DRAUGHT OF 3.60 m

	+	-
Depth Correction	—	<u>3</u>
Deduction for superstructures	—	<u>597</u>
Sheer correction	<u>65</u>	—
Round of Beam correction	—	—
Correction for Thickness of Deck amidships	<u>1070</u>	—
Other corrections, scantlings, etc. To CORRECTED TO SUMMER M ^{LD} DRAUGHT OF 3.60 m	<u>85</u>	—
	<u>1220</u>	<u>600</u>

Summer Freeboard = 1126 mm

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

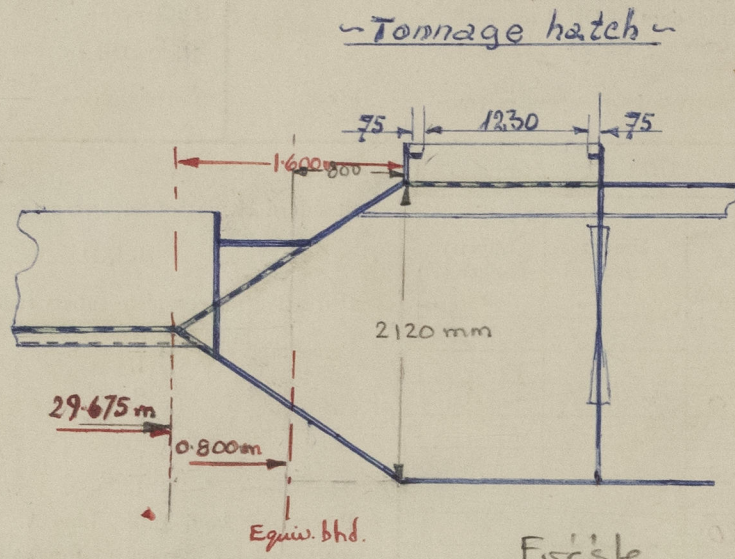
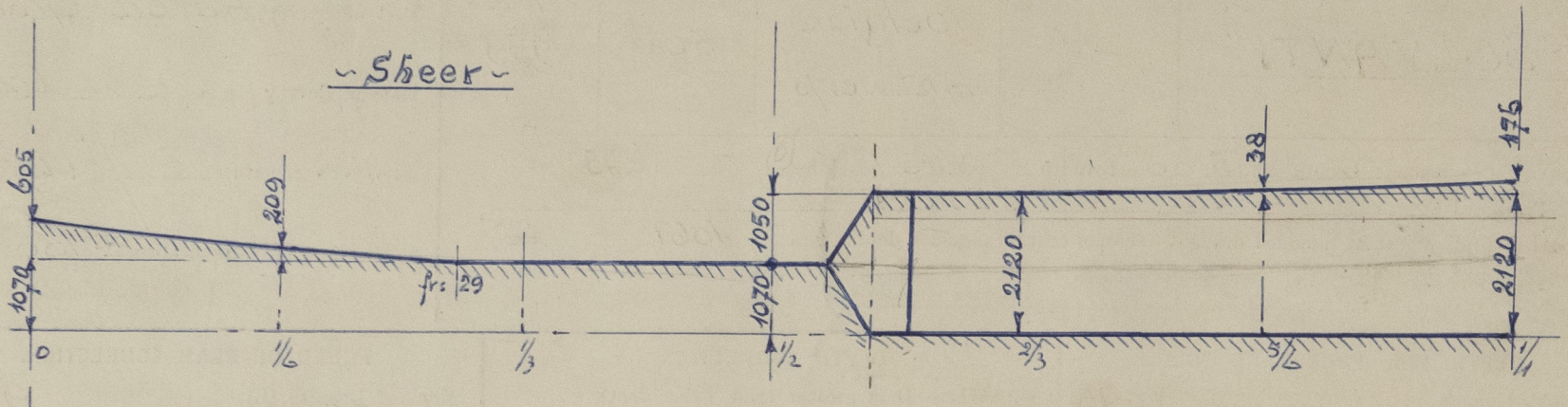
Tropical Fresh Water Line above Centre of Disc ... 82
 Fresh Water Line " " 77
 Tropical Line " " LIMITED ... 5
 Winter Line below " " 75
 Winter North Atlantic Line " " 126

RAISED QUARTER
 Tropical Fresh Water Freeboard 1044
 Fresh Water 1049
 Tropical (LIMITED) 1121
 Winter 1201
 Winter North Atlantic 1252

27 OCT 1959

Solvanti

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.



R.Q.D.

Equiv. bhd. = $29.675 + .800 = 30.475$ m

For'sle

Trade of ship unrestricted

Names of sister ships —

Builder's name and yard number Gebres. v. Diepen's Scheepswerren N.V. ; 954

Owners N.V. Antigoon

Fee fl 200.00

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

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Foundation