

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

Index No. (For London Office only).

(COMPUTATION FOR STEAMER, ~~SALONIKOS~~)

Ship's Name <b>H E L L E</b>	Official Number <b>7020</b>	Nationality and Port of Registry <b>Swedish Malmö</b>	Gross Tonnage <b>866</b>	Date of Build <b>1902 8</b>	Port of Survey <b>Gothenburg.</b>
Moulded Dimensions: Length <b>215.3'</b> Breadth <b>35.125'</b> Depth <b>14.77'</b>					Date of Survey <b>6th October 1944.</b>
Moulded displacement at moulded draught = 85 per cent. of moulded depth <b>2713</b> tons					Surveyor's Signature <i>Behand Green</i>
Coefficient of fineness for use with Tables <b>.732</b>					Particulars of Classification <b>+100A1</b>

<b>Depth for Freeboard (D).</b>	<b>Depth correction.</b>	<b>Round of Beam correction.</b>
Moulded depth	(a) Where D is greater than Table depth (D—Table depth) R =	Moulded Breadth (B)
Tringer plate	<b>+ .76</b>	Standard Round of Beam = $\frac{B \times 12}{50} =$
Heating on exposed deck	(b) Where D is less than Table depth (if allowed) (Table depth—D) R =	Ship's Round of Beam =
$T \left( \frac{L-S}{L} \right) =$	If restricted by superstructures	Difference
Depth for Freeboard (D) = <b>14.81</b>		Restricted to
		Correction = $\frac{\text{Diff}^e}{4} \times \left( 1 - \frac{S_1}{L} \right) = - .01$

**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)
Poop enclosed					
» overhang					
R.Q.D. enclosed	<b>65.46</b>	<b>65.46</b>	<b>3.5</b>	<b>3.5/3.77</b>	<b>60.77</b>
» overhang					
Bridge enclosed	<b>57.58</b>	<b>55.56</b>	<b>7.0</b>	<b>---</b>	<b>55.56</b>
» overhang aft					
» overhang forward					
Forecastle enclosed } <b>equiv.</b>	<b>27.39</b>	<b>27.39</b>	<b>6.96</b>	<b>---</b>	<b>27.39</b>
» overhang					
Trunk aft					
» forward					
Tonnage opening aft					
» forward					
Total	<b>150.43</b>	<b>148.41</b>			<b>143.72</b>

Standard Height of Superstructure	<b>6.00</b>
» » R.Q.D.	<b>3.77</b>
Deduction for complete superstructure	<b>27.53</b>
Percentage covered $\frac{S}{L} =$	<b>69.87</b>
» » $\frac{S_1}{L} =$	<b>68.93</b>
» » $\frac{E}{L} =$	<b>66.75</b>
Percentage from Table, <del>XXXX</del> Timber	<b>79.5</b>
(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 = <b>27.53 x .7955 = 21.90"</b>	

**SHEER CORRECTION.**

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
Po		1					1		
from A.P.		4					4		
»		2					2		
amidships		4					4		
from F.P.		2					2		
»		4					4		
Po		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 =  
L

» » aft of » =

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) = + 1.81"$

If limited on account of midship superstructure.

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

Correction for Tropical Freeboard.  
Correction for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **14.81** Ft.  
Summer freeboard = **.67**  
Moulded draught (d) = **14.14**

Correction for Tropical freeboard ~~XXXX~~  
~~XXXX~~ =  $\frac{d}{4}$  inches = **3.53" = 90 mm.**

Correction for Winter ~~XXXX~~ Freeboard (if required) =  $\frac{d}{3} = 4.71" = 120 \text{ mm.}$

**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 = **90 mm.**

**TABULAR FREEBOARD** corrected for Flush Deck (if required)

Correction for coefficient			<b>26.73</b>
Depth Correction	<b>.76</b>	<b>-</b>	
Deduction for superstructures	<b>- 21.90</b>		
Sheer correction	<b>1.81</b>	<b>-</b>	
Round of Beam correction	<b>- .01</b>		
Correction for Thickness of Deck amidships	<b>-</b>		
Other corrections, <del>XXXX</del> <b>for omission of poop</b>	<b>.60</b>	<b>-</b>	
	<b>3.17</b>	<b>21.91</b>	<b>-18.74</b>
Summer Freeboard =	<b>7.99</b>		

**FREEBOARD** Summer Freeboard amidships from Centre of Disc to top of Deck Line, ~~XXXX~~ Steel, Deck:—

Timber	Tropical Fresh Water Line above Centre of Disc	<b>319 mm.</b>	Tropical Fresh Water Freeboard	<b>203 mm.</b>
"	Fresh Water Line	<b>229 mm.</b>	Fresh Water	<b>23 mm.</b>
"	Tropical Line	<b>229 mm.</b>	Tropical	<b>113 mm.</b>
"	Winter Line	<b>19 mm.</b>	Winter	<b>113 mm.</b>
"	Winter North Atlantic Line	<b>138 mm.</b>	Winter North Atlantic	<b>323 mm.</b>
Summer Line		<b>139 mm.</b>		<b>480 mm.</b>



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.

Table with multiple columns and rows, containing faint numerical data and some legible text. The table is mostly illegible due to fading and bleed-through from the reverse side of the page.

Trade of ship .....

Names of sister ships .....

Builder's name and yard number **A/S Burmeister & Wain, Köpenhamn.**

Owners **Svenska Sockerfabriks A-B. (C.F.Tranchell, Mgr.), Malmö.**

Fee £ .....

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