

30 APR 1949

Index No. (For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

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

Ship's Name "TYLÖN"	Official Number 9005	Nationality and Port of Registry Swedish Halmstad	Gross Tonnage 847	Date of Build 1914 6	Port of Survey Uddevalla
Moulded Dimensions: Length 210'-3" <i>210'-20"</i>	Breadth 31'-6"	Depth 15'-7"	Date of Survey <i>March - April, 1949</i>		
Freeboard Length 210'-3"	Surveyor's Signature <i>Hans Sney</i>				Particulars of Classification <i>+100A1</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					
Coefficient of fineness for use with Tables 74 (Freeboard report 23769) <i>736 (Estimated)</i>					

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth <i>15.58</i>	(a) Where D is greater than Table depth (D-Table depth) R = <i>(15.61 - 14.01) 1.617 = +2.59"</i>	Moulded Breadth (B) <i>31.50</i>
Stringer plate 36 <i>03</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = <i>1.60</i>	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{31.50 \times 12}{50} = 7.56$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = $\frac{7.56}{1.60} = 4.725$
Depth for Freeboard (D) = <i>15.61</i>		Difference = <i>2.59 - 4.725 = -2.135</i>
		Restricted to
		Correction = $\frac{\text{Diff}^c}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{2.59}{4} \times \left(1 - \frac{4828}{4828} \right) = -0.03$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed	28.70	28.70	7'-0"		28.70
» overhang					
R.Q.D. enclosed					
» overhang					
Bridge enclosed	60.00	54.00	7'-0"		54.00
» overhang aft	2.42	1.82			1.82
» overhang forward	.54	.27			.27
Fore enclosed	23.60	23.60	7'-5"		23.60
» overhang	.66	.33			.33
Trunk aft					
» forward					
Tonnage opening aft					
» forward					
Total	115.92	108.72			108.72

Standard Height of Superstructure	<i>6.00</i>
» » R.Q.D.	
Deduction for complete superstructure	<i>27.02</i>
Percentage covered $\frac{S}{L} =$	<i>55.15</i>
» $\frac{S_1}{L} =$	<i>51.72</i>
» $\frac{E}{L} =$	
Percentage from Table, Line A. (corrected for absence of forecastle [if required])	
Percentage from Table, Line B. (corrected for absence of forecastle [if required])	<i>37.72</i>
Interpolation for bridge less than 2L (if required)	
Deduction = <i>27.02</i> x <i>37.72</i>	<i>= 10.19</i>

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	<i>31.02</i>	1	<i>31.02</i>	31	<i>31.00</i>	1	<i>31.00</i>
1/6 L from A.P.	<i>13.80</i>	4	<i>55.20</i>	13.8	<i>13.80</i>	4	<i>55.20</i>
2/6 L »	<i>3.41</i>	2	<i>6.82</i>	3.4	<i>3.40</i>	2	<i>6.80</i>
Amidships	-	4	-	0	-	4	
2/6 L from F.P.	<i>6.825</i>	2	<i>13.65</i>	6.8	<i>6.80</i>	2	<i>13.60</i>
1/6 L »	<i>27.61</i>	4	<i>110.44</i>	27.5	<i>27.50</i>	4	<i>110.00</i>
F.P.	<i>62.04</i>	1	<i>62.04</i>	62	<i>62.00</i>	1	<i>62.00</i>
Total			<i>279.17</i>				<i>278.60</i>

Mean actual sheer aft = <i>Deficient</i>	
Mean standard sheer aft = <i>Deficient</i>	
Mean actual sheer forward = <i>Deficient</i>	
Mean standard sheer forward = <i>Deficient</i>	
Length of enclosed superstructure forward of amidships = <i>Deficient</i>	
» aft of » = <i>Sheer.</i>	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75}{2L} \right) = \frac{.57(75 - 275)}{18 \times 4743} = +.02$

If limited on account of midship superstructure. limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	<i>24.84</i>
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{736 + 68}{1.36} = \frac{1.46}{1.36}$	<i>25.86</i>
Depth to Freeboard Deck = <i>15.61</i>	$\Delta =$	Depth Correction	<i>2.59</i>
Summer freeboard = <i>1.52</i>	Tons per inch immersion at summer load water line	Deduction for superstructures	<i>- 10.19</i>
Moulded draught (d) = <i>14.09</i>	T =	Sheer correction	<i>.02</i>
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = <i>3.52</i> = <i>89</i> <i>sq/ft</i>	Deduction = $\frac{\Delta}{40 T}$ inches = <i>89</i> <i>sq/ft</i>	Round of Beam correction	<i>- .03</i>
Addition for Winter North Atlantic Freeboard (if required) = <i>89 + 51 = 140</i> <i>sq/ft</i>		Correction for Thickness of Deck amidships	<i>-</i>
		Other corrections, scantlings, etc.	<i>-</i>
		Summer Freeboard =	<i>2.61 + 10.22 - 7.61 = 18.25</i>

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

Tropical Fresh Water Line above Centre of Disc	<i>178</i>
Fresh Water Line » »	<i>89</i>
Tropical Line » »	<i>89</i>
Winter Line below » »	<i>51</i>
Winter North Atlantic Line » »	<i>102</i>

Tropical Fresh Water Freeboard	<i>285</i>
Fresh Water » »	<i>374</i>
Tropical » »	<i>374</i>
Winter » »	<i>514</i>
Winter North Atlantic » »	<i>565</i>

Existing midship superstructure 10.5.1949

463 *sq/ft*
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Tylon.

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.

Forecastle :-

Length enclosed — 21.88'

Sideways $\frac{5.58' \times 4.0' \times 2}{26.00'} = \frac{1.72'}{23.60'}$ = equivl. enclosed length.

*Change = 2.38' - 1.72'
= 0.66'*

Trade of ship *General*

Names of sister ships *---*

Builder's name and yard number *Antwerp Engineering Co. LD., Hoboken.* Yard No. *70.*

Owners *Rederi A/B. Hallandskust (C.O. Johansson, Mgr.) Halmstad*

Fee Kr.

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