

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

 Index. No. _____
 (For London Office only).

Ship's Name <i>England Esbjerg</i>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <i>305.42</i> Breadth <i>44.0</i> Depth <i>28.5</i>					Date of Survey <i>7.1.38</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables _____					Particulars of Classification <i>100A new type (Complete)</i>

Depth for Freeboard (D). Moulded depth ... <i>18.70</i> ... <i>18.90</i> Stringer plate ... <i>.04</i> ... <i>.04</i> Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ <i>18.74</i> ✓ Depth for Freeboard (D) = <i>18.94</i>	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 = <i>20.36 - 18.94 = 1.42</i> $1.42 \times 2.389 = -3.38$ If restricted by superstructures <i>1.62</i> $(20.36 - 18.74) \times 2.389 = -3.84$	Round of Beam correction. Moulded Breadth (B) _____ Standard Round of Beam = $\frac{B \times 12}{50} =$ _____ Ship's Round of Beam = _____ Difference <i>assumed standard</i> Restricted to _____ Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right) =$ <i>Nil</i> ✓
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure <i>6.554</i>
„ overhang ...						„ „ R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure <i>35.70</i> ✓
„ overhang ...						Percentage covered $\frac{S}{L} =$ <i>100</i>
Bridge enclosed ...						„ „ $\frac{S_1}{L} =$
„ overhang aft ...						„ „ $\frac{E}{L} =$
„ overhang forward ...						Percentage from Table, Line A. <i>100</i>
Fore enclosed ...						(corrected for absence of forecastle (if required))
„ overhang ...						Percentage from Table, Line B.
Trunk, aft ...						(corrected for absence of forecastle (if required))
„ forward ...						Interpolation for bridge less than 2L (if required)
Tonnage opening aft ...						Deduction = <i>-35.70</i> ✓
„ „ forward						
Total ...						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...		1					1			Mean actual sheer aft =
$\frac{1}{2}$ L from A.P. ...		4					4			Mean standard sheer aft
$\frac{2}{3}$ L „ ...		2					2			Mean actual sheer forward =
Amidships ...		4					4			Mean standard sheer forward
$\frac{2}{3}$ L from F.P. ...		2					2			Length of enclosed superstructure forward of amidships =
$\frac{1}{2}$ L „ ...		4					4			„ „ aft of „ =
F.P. ...		1					1			
Total ...										

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) =$ *-1.45* ✓

If limited on account of midship superstructure.

LR height of superstructure = 8.000 ✓
Standard „ „ = 6.554 ✓
1.446 ✓

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. <i>18.74</i> Depth to Freeboard Deck = <i>18.94</i> ✓ <i>.32</i> Summer freeboard = <i>.35</i> ✓ <i>18.42</i> Moulded draught (d) = <i>18.59</i> ✓ Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = _____ Addition for Winter North Atlantic Freeboard (if required) = _____	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 = $\frac{\Delta}{40T}$ inches = _____	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient _____ <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction ...</td> <td><i>3.84</i></td> <td><i>3.38</i></td> </tr> <tr> <td>Deduction for superstructures ...</td> <td><i>35.70</i></td> <td><i>35.70</i> ✓</td> </tr> <tr> <td>Sheer correction ...</td> <td><i>1.45</i></td> <td><i>1.45</i> ✓</td> </tr> <tr> <td>Round of Beam correction ...</td> <td></td> <td></td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td></td> <td></td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td><i>40.985</i></td> <td><i>40.51</i></td> </tr> <tr> <td>Summer Freeboard =</td> <td><i>4.24</i></td> <td><i>3.76</i></td> </tr> </tbody> </table>		+	-	Depth Correction ...	<i>3.84</i>	<i>3.38</i>	Deduction for superstructures ...	<i>35.70</i>	<i>35.70</i> ✓	Sheer correction ...	<i>1.45</i>	<i>1.45</i> ✓	Round of Beam correction ...			Correction for Thickness of Deck amidships ...			Other corrections, scantlings, etc. ...	<i>40.985</i>	<i>40.51</i>	Summer Freeboard =	<i>4.24</i>	<i>3.76</i>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ...	
Fresh Water Line „ „ ...	
Tropical Line „ „ ...	
Winter Line below „ „ ...	
Winter North Atlantic Line „ „ ...	

Tropical Fresh Water Freeboard ...	
Fresh Water „ „ ...	
Tropical „ „ ...	
Winter „ „ ...	
Winter North Atlantic „ „ ...	