

FRESHWELL  
37893

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

3rd 5680

Ship's Name <b>FRESH TARN.</b>	Official Number 169994	Nationality and Port of Registry British London.	Gross Tonnage 282.91	Date of Build 1944.	Port of Survey Lytham
Moulded Dimensions: Length 120.00' Breadth 24.50' Depth 12.50'					Date of Survey Whilst building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 639.5 tons					Surveyor's Signature H. S. Newton.
Coefficient of fineness for use with Tables .717					Particulars of Classification +100 A1. For Admiralty Tender Services.

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth ...	12.50	(a) Where D is greater than Table depth (D - Table depth) R = (12.53 - 8.00) = +4.18 4.53		Moulded Breadth (B)	24.50
Stringer plate ...	.03	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓		Standard Round of Beam = $\frac{B \times 12}{50}$ =	5.88
Sheathing on exposed deck $T \left( \frac{L-S}{L} \right) =$	✓			Ship's Round of Beam =	6"
Depth for Freeboard (D) =	12.53	If restricted by superstructures ✓		Difference	.12
				Restricted to	✓
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L}\right)$ =	$\frac{.12^2}{4} \times .849 = -.03$

### DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure 6.0
.. overhang ...						.. .. R.Q.D. ✓
R.Q.D. enclosed ...						Deduction for complete superstructure 18.0
.. overhang ...						Percentage covered $\frac{S}{L} = 15.21$
Bridge enclosed ...						.. .. $\frac{S_1}{L} = \left. \begin{matrix} \\ \\ \end{matrix} \right\} 15.10$
.. overhang aft ...						.. .. $\frac{E}{L} =$
.. overhang forward						Percentage from Table, Line A. 7.55
Fore enclosed ...	18.00	18.00	6.50	✓	18.00	(corrected for absence of forecastle (if required))
.. overhang ...	.25	.12			.12	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 = $18 \times .0755 = -1.36$
.. forward						
Total ...	18.25	18.12			18.12	

### SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product	
A.P. ...	22.00	1	22.00	18.00	18.00	1	18.00	Mean actual sheer aft =
1/4 L from A.P. ...	9.79	4	39.16	9.00	9.00	4	36.00	Mean standard sheer aft =
1/2 L ..	2.42	2	4.84	3.50	3.50	2	7.00	} deficient.
Amidships ...	-	4	-	✓	-	4	-	
3/4 L from F.P. ...	4.84	2	9.68	5.00	5.00	2	10.00	Mean actual sheer forward =
1/4 L ..	19.58	4	78.32	15.00	15.00	4	60.00	Mean standard sheer forward =
F.P. ...	44.00	1	44.00	36.00	36.00	1	36.00	} Sheer def.
Total ...			198.00				167.00	

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( \frac{.75 - S}{2L} \right) = \frac{31.0}{18} \left( \frac{.75 - .0761}{.6739} \right) = +1.16$   
If limited on account of midship superstructure. ✓  
If 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)	12.00
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	12.32
Depth to Freeboard Deck = 12.53 Ft.	$\Delta = 595.626$	$\frac{.717 \times .68}{1.36} = \frac{1.396}{1.36}$	
Summer freeboard = 1.35	Tons per inch immersion at summer load water line	Depth Correction ...	4.18
Moulded draught (d) = 11.18	$T = 5.87$	Deduction for superstructures ...	- 1.36
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.8 = 2 3/4"	Deduction = $\frac{\Delta}{40T}$ inches = 2.63 = 2 3/4"	Sheer correction ...	1.16
Addition for Winter North Atlantic Freeboard (if required) = ✓		Round of Beam correction ...	- .03
		Correction for Thickness of Deck amidships ...	-
		Other corrections, scantlings, etc. ...	-
		5.34 1.39 + 3.95	
		Summer Freeboard = 16.27	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, <del>Wood</del> , Steel, Deck:		© 2021	
Tropical Fresh Water Line above Centre of Disc	not assigned	Tropical Fresh Water Freeboard	1'-4 1/4"
Fresh Water Line	2 3/4"	Fresh Water	1'-1 1/2"
Tropical Line	not assigned	Tropical	1'-7"
Winter Line	below	Winter	
Winter North Atlantic Line	not assigned	Winter North Atlantic	

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 *Water carrier for Admiralty Tender services.*

Names of sister ships *Freshmore, Freshpool, Freshwell, Freshburn.*

Builder's name and yard number *Lyltham S.B. & E.W. Ltd No 876.*

Owners *The Admiralty.*

*P* Fee £ *6* : *0* : *0*

*Owner*

