

TRV
36873

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "T.R.V. 6"	Official Number ✓	Nationality and Port of Registry ✓	Gross Tonnage 196 (approx.)	Date of Build 1945	Port of Survey HULL
Moulded Dimensions: Length 97.25 Breadth 20.83 Depth 9.062 <i>TO centre of middle stow</i>					Date of Survey During construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth 322 tons					Surveyor's Signature S. J. Palmer
Coefficient of fineness for use with Tables .722					Particulars of Classification 100A1 <i>For Government Service (Contemplated)</i>

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	9.062	(a) Where D is greater than Table depth (D-Table depth) R =		Moulded Breadth (B)	20.83
Stringer plate	.025	(9.09 - 6.49) × $\frac{22.25}{130} = +1.94$		Standard Round of Beam = $\frac{B \times 12}{50} =$	5.00
Sheathing on exposed deck		(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	✓	Ship's Round of Beam =	5.00
T $\left(\frac{L-S}{L}\right) =$		If restricted by superstructures		Difference	Nil
Depth for Freeboard (D) =	9.087			Restricted to	✓
				Correction = $\frac{\text{Diff}^\circ}{4} \times \left(1 - \frac{S_1}{L}\right) =$	Nil.

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>trunk of stow</i>	43.00	43.67	7.0	-	43.67
„ overhang					
R.Q.D. enclosed					
„ overhang					
Bridge enclosed					
„ overhang aft					
„ overhang forward					
F'cle enclosed	15.75	15.75	6.5	-	15.75
„ overhang	1.75	.88			.88
Trunk aft					
„ forward					
Tonnage opening aft					
„ forward					
Total	61.17	60.30			60.30

Standard Height of Superstructure **6.0**

„ „ R.Q.D. ✓

Deduction for complete superstructure **15.73**

Percentage covered $\frac{S}{L} = 62.90$

„ „ $\frac{S_1}{L} = 62.00$

„ „ $\frac{E}{L} =$

Percentage from Table, Line A. **49.40**
(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 = $15.73 \times 49.4 = -7.77$

SHEER CORRECTION.

The distance of lowest point of sheer abaft midships is 11.0

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	19.50	.73	1	19.50	5.00	5.00	1	5.00	5.00
$\frac{1}{4}$ L from A.P.	8.68	.78	4	34.72	.25	.25	4	1.00	1.00
$\frac{3}{4}$ L „	2.15	.17	2	4.30	-.75	-.75	2	-1.50	-1.50
Amidships			4		NIL		4		
$\frac{3}{4}$ L from F.P.	4.30	.34	2	8.68	4.00	4.00	2	8.00	8.00
$\frac{1}{4}$ L „	17.36	.55	4	69.44	13.00	13.00	4	52.00	52.00
F.P.	39.00	.45	1	39.00	26.00	26.00	1	26.00	26.00
Total	177.54			175.56					90.50

Mean actual sheer aft
Mean standard sheer aft = } Deficient

Mean actual sheer forward
Mean standard sheer forward = }

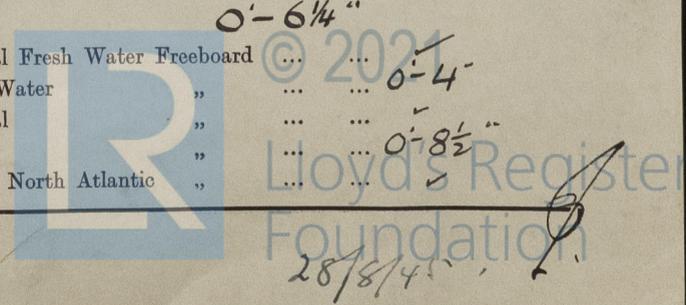
Length of enclosed superstructure forward of amidships = } Deficient
L aft of „ = } Sheer.

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L}\right) = \frac{87.04(.75 - .3145)}{18 \cdot 4355} = +2.11$
If limited on account of midship superstructure. If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	9.50
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.721 + .68}{1.36} = \frac{1.401}{1.36} =$	10.02
Depth to Freeboard Deck = 9.09	$\Delta = 366$	Depth Correction	1.94
Summer freeboard = 0.52	Tons per inch immersion at summer load water line	Deduction for superstructures	7.77
Moulded draught (d) = 8.57	T = 4.28	Sheer correction	2.11
Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 2.14 = 2 1/4	Deduction = $\frac{\Delta}{40T}$ inches = 2.14 = 2 1/4	Round of Beam correction	-
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships	-
		Other corrections, scantlings, etc.	-
		4.05	7.77
		Summer Freeboard = 6.30	

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

Tropical Fresh Water Line above Centre of Disc	✓	Tropical Fresh Water Freeboard	0'-6 1/4"
Fresh Water Line	2 1/4"	Fresh Water	0'-4"
Tropical Line	NOT assigned	Tropical	0'-8 1/2"
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 *Merchant*

Names of sister ships *"T.R.V.5," Wm & S. Watson (Gairloch) Ltd. Yard No 1535*

Builder's name and yard number *" " " " 1549*

Owners *The Admiralty*

Fee £ *4 . 0 . 0*



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Foundation