

Empire Scott
No. 36579 ETC.

Index. No. 37101
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

STAD SCHIEDAM (COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name VAN HONTDORST EX. EMPIRE FORTUNE	Official Number 169049	Nationality and Port of Registry NETHERLANDS Rotterdam South Shields	Gross Tonnage 6140 6140	Date of Build 1942	Port of Survey NEWCASTLE-ON-TYNE
Moulded Dimensions: Length 401.12 Breadth 53.829 Depth 35.84					Date of Survey During construction
Moulded displacement at moulded draught = 85 per cent. of moulded depth 14630 tons					Surveyor's Signature A. Alhoi
Coefficient of fineness for use with Tables $\frac{14630 \times 35}{401.12 \times 53.829 \times 35.84} = .785$					Particulars of Classification +100. A.1 with freeboard (not implemented)

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 35.87	(a) Where D is greater than Table depth (D-Table depth) R = $(35.92 - 26.74) 3 = 24.54 +$	Moulded Breadth (B) 53.3
Stringer plate05	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = $\frac{9.18}{2} = 4.59$	Standard Round of Beam = $\frac{B \times 12}{50} = \frac{12.79}{50} = 12.79$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures <input checked="" type="checkbox"/>	Ship's Round of Beam = $\frac{12.50}{29} = .43$
Depth for Freeboard (D) = 35.92		Difference = .29
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.29}{4} = +.07$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed ...						Standard Height of Superstructure 4.5
.. overhang R.Q.D. 42
R.Q.D. enclosed ...						Deduction for complete superstructure
.. overhang ...						Percentage covered $\frac{S}{L} =$
Bridge enclosed...						.. $\frac{S_1}{L} =$ Flush Deck
.. overhang aft $\frac{E}{L} =$
.. overhang forward						Percentage from Table, Line A.
F'cle 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 = NIL
.. " forward						
Total ...						

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	50.11	1		50.11	50.5	50.50	1		50.50
$\frac{1}{2}$ L from A.P. ...	22.55	4		89.20	22.5	22.50	4		90.00
$\frac{2}{3}$ L " ...	5.51	2		11.02	6.0	6.00	2		12.00
Amidships ...	-	4		-	-	-	4		-
$\frac{2}{3}$ L from F.P. ...	11.025	2		22.05	12.00	12.00	2		24.00
$\frac{1}{2}$ L " ...	45.40	4		178.40	49.00	49.00	4		196.00
F.P. ...	110.22	1		100.22	120.00	120.00	1		120.00
Total ...				451.00					492.50

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{41.50}{18} \times .75 = -1.73$ If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ☒

If limited on account of midship superstructure, **NO. Flush OK.**

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **35.92**
Summer freeboard = **4.92**
Moulded draught (d) = **26.00**

Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **6.5**
Addition for Winter North Atlantic Freeboard (if required) = ☒

Deduction for Fresh Water.

Displacement in salt water at summer load water line **216.00** tons
 $\Delta = 12320$
Tons per inch immersion at summer load water line
 $T = \frac{\Delta}{40T} = \frac{12320}{40 \times 1.025} = 43.8$
Deduction = $\frac{\Delta}{40T}$ inches = **7.03**
= **4"**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient	$\frac{.488 + .66}{1.36} = \frac{1.148}{1.36} = .844$	
Depth Correction	27.54	
Deduction for superstructures	1.73	
Sheer correction	1.73	
Round of Beam correction	.04	
Correction for Thickness of Deck amidships	9.18	
Other corrections, scantlings, etc.	4.68	
Summer Freeboard	119.00	

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck: **302 cm**

Tropical Fresh Water Line above Centre of Disc	34 cm	Tropical Fresh Water Freeboard	268 cm
Fresh Water Line	18 cm	Fresh Water	284 cm
Tropical Line	16 cm	Tropical	286 cm
Winter Line	17 cm	Winter	319 cm
Winter North Atlantic Line	16 cm	Winter North Atlantic	318 cm

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.

*For basis computation
See "EMPIRE STEVENSON."*

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Trade of ship: ✓

Names of sister ships

Listed to same builders No 524. "Empire Clough."

Builder's name and yard number

John Readhead & Sons Ltd. No 531.

Owners

Ministry of War Transport.

Fee £

To be charged with H. fee.



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Foundation