

Cape Rodney

T.O. CLOSED. (W.E.)

Index. No. 36264
(For London Office only).

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name "CAPE WRATH"	Official Number 165975	Nationality and Port of Registry BRITISH GLASGOW	Gross Tonnage	Date of Build 1940	Port of Survey
Moulded Dimensions: Length 405-0 ✓ Breadth 54-0 ✓ Depth 34-33 ✓ FREEBOARD LENGTH 405-52					Date of Survey 24-6-41
Moulded displacement at moulded draught = 85 per cent. of moulded depth tons					Surveyor's Signature
Coefficient of fineness for use with Tables 761 estimated ✓					Particulars of Classification +100 A.1. with freeboard.

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 34-33	(a) Where D is greater than Table depth (D-Table depth) R = (34-33-27-04)×3 = 22-02 ✓ 7-34	Moulded Breadth (B) 54-0
Stringer plate ... 59 ✓	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} = 12-96$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ ✓	If restricted by superstructures ✓	Ship's Round of Beam = 13-2
Depth for Freeboard (D) = 34-38		Difference Excess 54
		Restricted to
		Correction = $\frac{\text{Diff}^*}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{54}{4} \times \frac{9226}{4} = 7-12$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
„ overhang ...					
R.Q.D. enclosed ...					
„ overhang ...					
Bridge enclosed ...					
„ overhang aft ...					
„ overhang forward ...					
Fore enclosed ...	31-4 1/2 ✓	31-375	7-0 ✓	7-5	29-29 ✓
„ overhang ...					
Trunk aft ...					
„ forward ...					
Tonnage opening aft ...					
„ „ forward					
Total ...	31-375	31-375			29-29

Standard Height of Superstructure **7-5**

„ „ R.Q.D. ✓

Deduction for complete superstructure **42-00**

Percentage covered $\frac{S}{L} = 7-74$ ✓

„ „ $\frac{S_1}{L} = 7-74$ ✓

„ „ $\frac{E}{L} = 7-22$ ✓

Percentage from Table, Line A. **3-61** ✓

(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 = **42-00 × 0-361 = 15-2** ✓

SHEER CORRECTION.

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	50-55	1	50-55	54-00	54-00	1	54-00
1/2 L from A.P. ...	22-50	4	90-00	24-00	24-00	4	96-00
2/3 L „ ...	5-56	2	11-12	6-00	6-00	2	12-00
Amidships ...	✓	4	✓	✓	✓	4	✓
2/3 L from F.P. ...	11-12	2	22-24	12-00	12-00	2	24-00
1/2 L „ ...	44-99	4	179-96	48-00	48-00	4	192-00
F.P. ...	101-10	1	101-10	108-00	108-00	1	108-00
Total ...			454-97				486-00

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{31-03}{18} \times \frac{(75-0-387)}{7113} = -1-23$ ✓

If limited on account of midship superstructure. **Yes. NIL**

Mean actual sheer aft =

Mean standard sheer aft =

Excess

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

„ „ aft of „ =

NIL

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **34-38** Ft.

Summer freeboard = **9-71**

Moulded draught (d) = **24-67**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = **6-16 = 6-4** ✓

Addition for Winter North Atlantic Freeboard (if required) =

Deduction for Fresh Water.

Displacement in salt water at summer load water line

Δ =

Tons per inch immersion at summer load water line

T =

Deduction = $\frac{\Delta}{40 T}$ inches

6 1/2 ✓

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **761+68**
1-36

Depth Correction ... **22-02**

Deduction for superstructures ... **1-52** ✓

Sheer correction ... **-**

Round of Beam correction ... **12** ✓

Correction for Thickness of Deck amidships ... **16-76**

Other corrections, scantlings, etc. To CORRESPOND. **17-10**

To A SUMMER MOULDED DRAUGHT OF **24-8** (24-8 1/2 ACTUAL)

Summer Freeboard = **116-50** ✓

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

Tropical Fresh Water Line above Centre of Disc	... 12 3/4 ✓
Fresh Water Line	... 6 1/2 ✓
Tropical Line	... 6 1/4 ✓
Winter Line below	... 6 1/4 ✓
Winter North Atlantic Line	... 6 1/4 ✓

Tropical Fresh Water Freeboard ... **8-7 3/4**

Fresh Water ... **9-2** ✓

Tropical ... **9-2 1/4** ✓

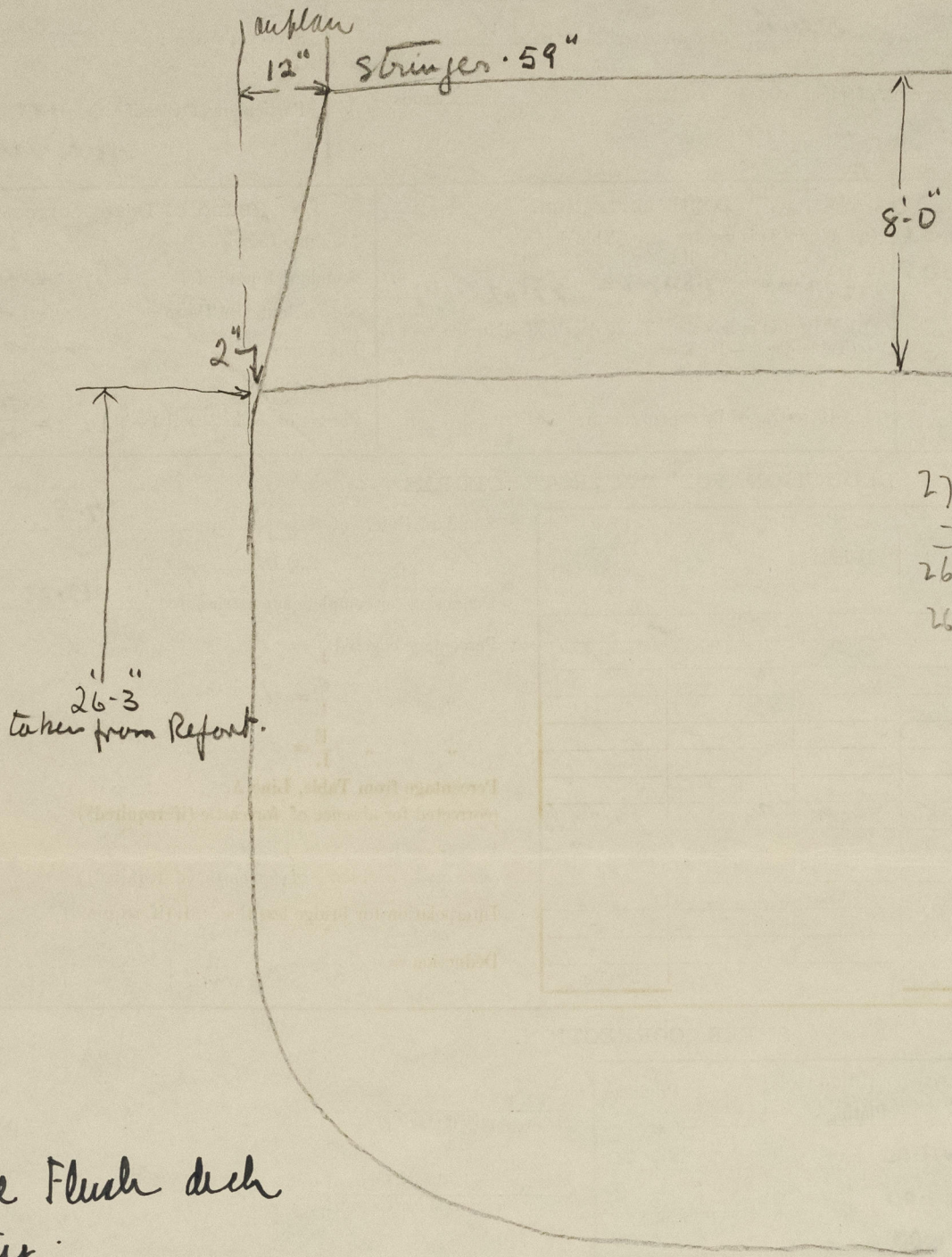
Winter ... **10-2 1/2** ✓

Winter North Atlantic ... **10-2 1/2** ✓

Cape Wrath.

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.

DIMENSIONS. 405'-0" x 54'-0" x 34'-3" M¹⁰ TO UPPER DK. (AS ON PLAN)
TUMBLE HOME 12"



27
 -2
 26'-10
 26.83

27
 1
 26

13.5
 .43
 13.07
 .42
 12.65

43
 .42
 .85
 .07

Partial Flush deck
 Penalty

4.0552	1.000
2.0271	.722
6.0828	.278

= 1.69.

Trade of ship

Names of sister ships

Builder's name and yard number

Owners

Fee £



© 2020

Lloyd's Register
 Foundation