

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

FEB 18 1938

Ship's Name "HERPORT" ex "FAIRPORT"	Official Number 166374	Nationality and Port of Registry British London	Gross Tonnage 2633	Date of Build 1919. 12m.	Port of Survey Hull
Moulded Dimensions: Length 251' Breadth 43' 6" Depth 28' 2"					Date of Survey 24/1/38 and subsequently
Moulded displacement at moulded draught = 85 per cent. of moulded depth not available tons					Surveyor's Signature R. S. Piddington & Co. Registered
Coefficient of fineness for use with Tables .790 estimated.					Particulars of Classification + 100 A1 Contemplated.

Depth for Freeboard (D). Moulded depth ... 28' 2" Stringer plate45 Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ none Depth for Freeboard (D) = 28' 21"	Depth correction. (a) Where D is greater than Table depth $(D - \text{Table depth}) R =$ $(28' 21" - 16' 73") \times 1.931 = 22' 17"$ (b) Where D is less than Table depth (if allowed) $(\text{Table depth} - D) R =$ 11' 48" If restricted by superstructures ✓	Round of Beam correction. Moulded Breadth (B) 43' 6" Standard Round of Beam = $\frac{B \times 12}{50} =$ 10' 44" Ship's Round of Beam = 10' 1/2" Difference Excess = .06 Restricted to Correction = $\frac{\text{Diff.}}{4} \times \left(1 - \frac{S_1}{L} \right) =$.06 (5538) = -.01"
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...	25' 0" ✓	25' 00" ✓	7' 0"	✓	25' 00"
" overhang ...	none				
R.Q.D. enclosed ...	✓				
" overhang ...	✓				
Bridge enclosed ...	64' 0" ✓	64' 00" ✓	7' 0"	✓	64' 00"
" overhang aft ...	none				
" overhang forward ...	none				
Fore enclosed ...	20' 0" ✓	20' 00" ✓	7' 0"	✓	20' 00"
" overhang ...	3' 0" ✓	3' 00" ✓			3' 00"
Trunk aft ...	✓				
" forward ...	✓				
Tonnage opening aft ...	✓				
" " forward ...	✓				
Total ...	112' 00"	112' 00"			112' 00"

Standard Height of Superstructure **6' 01"** ✓
 " " R.Q.D. **✓**
 Deduction for complete superstructure **31' 10"**
 Percentage covered $\frac{S}{L} =$ **44' 62"**
 " " $\frac{S_1}{L} =$ **44' 62"**
 " " $\frac{E}{L} =$ **44' 62"**
 Percentage from Table, Line A. **✓**
 (corrected for absence of forecastle (if required)) **✓**
 Percentage from Table, Line B. **31' 43"**
 (corrected for absence of forecastle (if required)) **✓**
 Interpolation for bridge less than 2L (if required) **✓**
 Deduction = **31' 10" x 31' 43" = - 9' 77"**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	35' 10"	1		35' 10"	38' 43"	43' 00"	1		43' 00"
1/4 L from A.P. ...	15' 62"	4		62' 48"	12' 10"	12' 10"	4		48' 40"
1/2 L " ...	3' 86"	2		7' 72"	1' 20"	- 20"	2		- 40"
Amidships ...	-	4		-	✓	✓	4		-
3/4 L from F.P. ...	1' 72"	2		15' 44"	14' 13' 75"	13' 75"	2		27' 50"
1/4 L " ...	31' 24"	4		124' 96"	37' 38' 20"	38' 20"	4		152' 80"
F.P. ...	70' 20"	1		70' 20"	68' 1/2' 75"	72' 00"	1		72' 00"
Total ...				315' 90"					343' 30"

Mean actual sheer aft = **Deficient > .75 of standard.**
 Mean standard sheer aft
 Mean actual sheer forward = **Excess** ✓
 Mean standard sheer forward
 Length of enclosed superstructure forward of amidships = **> .1**
 " " aft of " = **> .1**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{27' 40"}{18} \left(.75 - \frac{22' 31"}{251'} \right) = - .80"$
 If limited on account of midship superstructure. **✓**
 If limited to maximum allowance of 1 1/2 ins. per 100 ft. **✓**

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = 28' 21" Summer freeboard = 3' 90" Moulded draught (d) = 24' 31" Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 6' 08" = 6" Addition for Winter North Atlantic Freeboard (if required) = 8"	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 = $\frac{\Delta}{40 T}$ inches $\frac{1}{4} = 6"$	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient $\frac{.79 + .68}{1.36} = \frac{1.47}{1.36}$ Depth Correction ... 22' 17" Deduction for superstructures ... 9' 44" Sheer correction80 Round of Beam correction01 Correction for Thickness of Deck amidships ... Other corrections, scantlings, etc. ... 22' 17" 10' 58" + 11' 59" = 44' 34" Summer Freeboard = 46' 73"
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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 ...	12"
Fresh Water Line " " ...	6"
Tropical Line " " ...	6"
Winter Line below " " ...	6"
Winter North Atlantic Line " " ...	8"

Tropical Fresh Water Freeboard ...	3' 10 3/4"
Fresh Water " " ...	2' 10 3/4"
Tropical " " ...	3' 4 3/4"
Winter " " ...	3' 4 3/4"
Winter North Atlantic " " ...	4' 4 3/4"
Winter North Atlantic " " ...	4' 6 3/4"

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 ☒

Names of sister ships

"HERISLE" ex "FAIRISLE"

Builder's name and yard number ☒

Owners

Hercoal Shipping Co. Ltd.

Fee £

Will be charged later



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Lloyd's Register
Foundation