

Ore-carrier conversion, considered as ordinary
dry-cargo ship.

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, ~~SAILING SHIP~~, TANKER)

For LONDON OFFICE ONLY

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Ship's Name SOUTHERN COLLINS.	Official Number	Nationality and Port of Registry BRITISH LEITH	Gross Tonnage	Date of Build 1942	Port of Survey
Moulded Dimensions: Length 476.96' Breadth 68.00' Depth 36.00'					Date of Survey 3.5.56
Freeboard Length 476.96'					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth 21467 tons					Particulars of Classification + 100 A1
Coefficient of fineness for use with Tables .757					Ore carrier with steamer draught.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 36.00	(a) Where D is greater than Table depth (D-Table depth) R = (36.07 - 31.80) 3 = +12.81"	Moulded Breadth (B) 68.0
Stringer plate07	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times 12}{50} = 16.32$
Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 17.00
Depth for Freeboard (D) = 36.07		Difference + .68
		Restricted to
		Correction = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.68}{4} \times .6901 = -.12$

DEDUCTION FOR SUPERSTRUCTURES.					
	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed EQUIV. ...	113.31	113.31	7.5	-	113.31
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...					
Bridge enclosed ...					
" overhang aft ...					
" overhang forward ...					
F'cle enclosed ...	34.50	34.50	7.5	-	34.50
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft ...					
" " forward ...					
Total ...	147.81	147.81			147.81

Standard Height of Superstructure 7.50'
" " R.Q.D. ✓
Deduction for complete superstructure 42.00"
Percentage covered $\frac{S}{L} =$
" " $\frac{S_1}{L} =$
" " $\frac{E}{L} =$
Percentage from Table, Line A. 15.84
(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 x .1584 = 6.65"

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P. ...	57.70	1	57.70	45 3/4	45.75	1	45.75
1/2 L from A.P. ...	25.67	4	102.68	20 1/2	20.50	4	82.00
1/2 L " ...	6.345	2	12.69	5 3/8	5.375	2	10.75
Amidships ...	0	4	0	0	0	4	0
1/2 L from F.P. ...	12.69	2	25.38	6 3/4	6.75	2	13.50
1/2 L " ...	51.35	4	205.40	26 3/4	26.75	4	107.00
F.P. ...	115.39	1	115.39	62	62.00	1	62.00
Total ...			519.24				321.00

Mean actual sheer aft =
Mean standard sheer aft =

Mean actual sheer forward =
Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =
" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{198.24}{18} \left(.75 - \frac{.5950}{2 \times 1550} \right) = +6.55"$
If limited on account of midship superstructure.

If limited to maximum allowance of 1 1/2 ins. per 100ft. ✓

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	95.39
Addition for Winter and Winter North Atlantic Freeboard.		Correction for coefficient $\frac{.757 + .68}{1.36} = 1.437$	100.80
Depth to Freeboard Deck = 36.07	Displacement in salt water at summer load water line	Depth Correction ... 12.81	
Summer freeboard = 9.46	$\Delta =$	Deduction for superstructures ... 6.65	
26' - 7 3/8" Moulded draught (d) = 26.61	Tons per inch immersion at summer load water line	Sheer correction ... 6.55	
Keel allowance =	T =	Round of Beam correction12	
Extreme draught =	Deduction = $\frac{\Delta}{40 T}$ inches	Correction for Thickness of Deck amidships ...	
Deduction for Tropical freeboard and addition for =		Other corrections, scantlings, etc. ...	
Winter freeboard = $\frac{d}{4}$ inches =			
Addition for Winter North Atlantic Freeboard (if required) =			
			4.5.56
			19.36 6.77 + 12.59
			Summer Freeboard = 113.39

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 ...	
Fresh Water Line " " ...		Fresh Water " " ...	
Tropical Line " " ...		Tropical " " ...	
Winter Line below " " ...		Winter " " ...	
Winter North Atlantic Line " " ...		Winter North Atlantic " " ...	