

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Index No. 34927
(For London Office only.)

Ship's Name SIREFJELL. E. PICARDIE E. KOLLGRIM.	Official Number	Nationality and Port of Registry NORWEGIAN.	Gross Tonnage	Date of Build 6/1936.	Port of Survey
Moulded Dimensions: Length 462.0' Breadth 60.75' Depth 34.0'					Date of Survey Aug. 8, 1949.
Moulded displacement at moulded draught = 85 per cent. of moulded depth 18580. tons					Surveyor's Signature
Coefficient of fineness for use with Tables 801. ✓					Particulars of Classification

DEPTH FOR FREEBOARD (D).

Moulded depth	34.00
Stringer plate07.
Sheathing on exposed deck	✓
$T \frac{(L-S)}{L} =$	✓
Depth for Freeboard (D) =	34.07.

DEPTH CORRECTION.

- (a) Where D is greater than Table depth (D-Table depth) R = $(34.07 - 30.80) \times 3 = 9.81$ ✓
- (b) Where D is less than Table depth (if allowed) (Table depth-D) R = ✓
- If restricted by superstructures ✓

ROUND OF BEAM CORRECTION.

Moulded Breadth (B)	60.75.
Standard Round of Beam = $\frac{B \times 12}{50}$	14.58.
Ship's Round of Beam	15.20.
Difference	.62
Restricted to	✓
Correction = $\frac{\text{Diff}}{4} \times (1 - \frac{S_1}{L})$	$\frac{.62}{4} \times .594 = -.09.$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Equin</i> ...	119.98 ✓	119.98.	7.5.	✓	119.98.
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed <i>Equin</i> ...	32.65. ✓	32.65.	7.5.	✓	32.65.
" overhang aft					
" overhang forward					
Fore enclosed	34.92 ✓	34.92.	7.5.	✓	34.92.
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	187.55	187.55			187.55

Standard Height of Superstructure	7.6 ✓
" " R.Q.D.	✓
Deduction for complete superstructure	42. ✓
Percentage covered $\frac{S}{L} =$	40.59. ✓
" " $\frac{S_1}{L} =$	
" " $\frac{E}{L} =$	
Percentage from Table, Line A. TANKER.	31.59. ✓
(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 = $42 \times .3159 =$	-13.27 ✓

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	56.20.	1		56.20.	40.00.	40.00.	1		40.00.
$\frac{1}{2}$ L from A.P. ...	25.01.	4		100.04	14.60	14.60	4		58.40
$\frac{1}{4}$ L " ...	6.18.	2		12.36	2.52.	2.52.	2		5.04
Amidships ...	✓	4		✓	✓	✓	4		✓
$\frac{3}{4}$ L from F.P. ...	12.36.	2		24.72	7.60.	7.60	2		15.20
$\frac{1}{2}$ L " ...	50.02.	4		200.08	34.76.	34.76.	4		139.04
F.P. ...	112.40.	1		112.40.	80.00.	80.00.	1		80.00
Total	112	✓		505.80					337.68

Correction = $\frac{\text{Difference between sums of products}}{18} = \frac{168.12}{18} = 9.34$ ✓

If limited on account of midship superstructure, ✓

Mean actual sheer aft =

Mean standard sheer aft =

DEFICIENT.

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

TANKER.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck =	34.07.
Summer freeboard =	7.23.
Moulded draught (d) =	26.84 ✓

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches = $\frac{26.84}{4} = 6.71 = 6\frac{3}{4}$ "Addition for Winter North Atlantic Freeboard (if required) = $6.71 + 4.62 = 11.33 = 11\frac{1}{4}$ " = **286** mm.**Deduction for Fresh Water.**

Displacement in salt water at summer load water line

 $\Delta = 17259.$

Tons per inch immersion at summer load water line

 $T = 57.99.$ Deduction = $\frac{\Delta}{40 T}$ inches $= \frac{17259}{40 \times 57.99} = 7.44 = 7\frac{1}{2}$ " $= 190$ mm.**TABULAR FREEBOARD** corrected for Flush Deck (if required)

Correction for coefficient

$$\frac{801 \times .68}{1.36} = 1.481$$

78.20.
85.16.

Depth Correction	...	9.81.	✓
Deduction for superstructures	...	13.27.	✓
Sheer correction	...	5.11	✓
Round of Beam correction09.	✓
Correction for Thickness of Deck amidships	...	✓	
Other corrections, scantlings, etc.	...	✓	

Summer Freeboard = **86.72****SUMMER FREEBOARD** amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	...	14 1/4"	361 mm.
Fresh Water Line	"	7 1/2"	190 mm.
Tropical Line	"	6 3/4"	171 mm.
Winter Line below	"	6 3/4"	171 mm.
Winter North Atlantic Line	"	11 1/4"	286 mm.

Tropical Fresh Water Freeboard	6 1/2"	164 mm.
Fresh Water	6 1/4"	160 mm.
Tropical	6 1/4"	160 mm.
Winter	7 1/4"	188 mm.
Winter North Atlantic	8 1/2"	216 mm.