

# Lloyd's Register of Shipping.

## SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name <b>LYNGAS.</b>	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey _____ Date of Survey _____ Surveyor's Signature _____ Particulars of Classification _____
Moulded Dimensions: Length _____ Breadth _____ Depth _____					
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					
Coefficient of fineness for use with Tables _____					

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

**DEDUCTION FOR SUPERSTRUCTURES.**

	Mean Covered Length (S)	Equivalent Enclosed Length (S <sub>1</sub> )	Height	Height Correction	Effective Length (E)	
Poop enclosed ... ..						Standard Height of Superstructure _____
„ overhang ... ..						„ „ R.Q.D. _____
R.Q.D. enclosed ... ..						Deduction for complete superstructure _____
„ overhang ... ..						Percentage covered $\frac{S}{L} =$
Bridge enclosed ... ..						„ „ $\frac{S_1}{L} =$
„ overhang aft ... ..						„ „ $\frac{E}{L} =$
„ overhang forward ... ..						Percentage from Table, Line A.
Fore 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 =
„ „ forward ... ..						
Total ... ..						

**SHEER CORRECTION.**

Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product	
A.P. ... ..		1				1		Mean actual sheer aft =
$\frac{1}{6}L$ from A.P. ... ..		4				4		Mean standard sheer aft =
$\frac{2}{6}L$ „ ... ..		2				2		Mean actual sheer forward =
Amidships ... ..		4				4		Mean standard sheer forward =
$\frac{2}{6}L$ from F.P. ... ..		2				2		Length of enclosed superstructure forward of amidships =
$\frac{1}{6}L$ „ ... ..		4				4		„ „ aft of „ =
F.P. ... ..		1				1		
Total ... ..								

Correction =  $\frac{\text{Difference between sums of products}}{18} \left( .75 - \frac{S}{2L} \right) =$

If limited on account of midship superstructure.

If limited to maximum allowance of 1½ ins. per 100 ft.

**Deduction for Tropical Freeboard.**

**Addition for Winter and Winter North Atlantic Freeboard.**

Depth to Freeboard Deck = 15'03 Ft.

Summer freeboard = 1'67

Moulded draught (d) = 13'36

Deduction for Tropical freeboard and addition for Winter freeboard =  $\frac{d}{4}$  inches = 3'34 = 3'

Addition for Winter North Atlantic Freeboard (if required) = 5'4

**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 = 3'

**TABULAR FREEBOARD** corrected for Flush Deck (if required)

Correction for coefficient

	+	-
Depth Correction ... ..		
Deduction for superstructures ... ..		
Sheer correction ... ..		
Round of Beam correction ... ..		
Correction for Thickness of Deck amidships ... ..		
Other corrections, scantlings, etc. ... ..		
Summer Freeboard =		

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

Tropical Fresh Water Line above Centre of Disc	... <u>6'4</u>
Fresh Water Line	... <u>3'4</u>
Tropical Line	... <u>3'4</u>
Winter Line below	... <u>3'4</u>
Winter North Atlantic Line	... <u>5'4</u>

Tropical Fresh Water Freeboard	... ..
Fresh Water	... ..
Tropical	... ..
Winter	... ..
Winter North Atlantic	... ..

