

LLOYD'S REGISTER OF SHIPPING

UNITED WITH THE BRITISH CORPORATION REGISTER

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name **LORINDA** Official Number _____ Nationality and Port of Registry **FRENCH MARSEILLE** Gross Tonnage **554** Date of Build **8/1945**

Port of Survey _____ Date of Survey **23.8.55**

Moulded Dimensions: Length **141.00** Breadth **27.00** Depth **17.50**

Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons

Coefficient of fineness for use with Tables **760 ESTIMATED**

Surveyor's Signature _____

Particulars of Classification **BS***
with freeboard for service in the Indonesian Archipelago with extension to 1200m.

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth 17.50	(a) Where D is greater than Table depth (D-Table depth) R = $(17.58 - 9.40) 1.084 = +8.87$	Moulded Breadth (B) 27.00
Stringer plate03	(b) Where D is less than Table depth (if allowed) (Table depth-D) R = 8.18	Standard Round of Beam = $\frac{B \times 12}{50} = 6.48$
Sheathing on exposed deck	✓	Ship's Round of Beam = 7.00
$T \left(\frac{L-S}{L} \right) = \frac{2}{12} \times \frac{14}{141} = .05$	If restricted by superstructures ✓	Difference .52
Depth for Freeboard (D) = 17.58		Restricted to _____
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L} \right) = \frac{.52}{4} \times 1 = -.13$

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					
Forecastle enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total					

FLUSH DECK

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

Percentage covered $\frac{S}{L} =$ _____

" " $\frac{S_1}{L} =$ _____

" " $\frac{E}{L} =$ _____

Percentage from Table, Line A. (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 = **NIL**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	24.10	1		24.10	16.00	16.00	1		16.00
$\frac{1}{8}L$ from A.P.	10.77	4		43.08	6.75	6.75	4		27.00
$\frac{2}{8}L$ "	2.65	2		5.30	.50	.50	2		1.00
Amidships	✓	4		✓	✓	✓	4		✓
$\frac{3}{8}L$ from F.P.	5.30	2		10.60	✓	✓	2		✓
$\frac{4}{8}L$ "	21.45	4		85.80	7.00	7.00	4		28.00
F.P.	48.20	1		48.20	32.00	32.00	1		32.00
Total				217.08					104.00

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 = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{113.08}{18} (-.75) = +4.71$

If limited on account of midship superstructure. ✓

If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. ✓

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **17.53**

Summer freeboard = **6.02**

Moulded draught (d) = **11.51**

Keel allowance = _____

Extreme draught = _____

Deduction for Tropical Freeboard and addition for _____

Winter freeboard = $\frac{d}{4}$ inches = **2.88 = 3"**

Addition for Winter North Atlantic Freeboard (if required) = _____

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

4 = 3"

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient $\frac{.76 + .68}{1.36} = \frac{1.44}{1.36} = 1.06$

	+	-
Depth Correction	8.87	-
Deduction for superstructures	-	-
Sheer correction	4.71	-
Round of Beam correction	-	.13
Correction for Thickness of Deck amidships	-	.60
Other corrections, scantlings, etc. to _____	41.98	-
corrected to a Summer Mld. Draught of 11'-6" (11.51 actual)	55.56	.73
Summer Freeboard =	72.25	

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

Tropical Fresh Water Line above Centre of Disc	6" 152 1/2	Tropical Fresh Water Freeboard	5' 6 1/4"	1683
Fresh Water Line " "	3" 76	Fresh Water	5' 9 1/4"	1759
Tropical Line " "	3" 76	Tropical	5' 9 1/4"	1759
Winter Line below " "	NOT ASSIGNED	Winter	NOT ASSIGNED	
Winter North Atlantic Line " "	NOT ASSIGNED	Winter North Atlantic	NOT ASSIGNED	