

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name MONTE MONCAYO	Official Number	Nationality and Port of Registry Spanish	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length 110.63 Breadth 15.85 Depth 10.21 m					Date of Survey
Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons					Surveyor's Signature
Coefficient of fineness for use with Tables .73 assumed					Particulars of Classification 10041 steel deck with plating

DEPTH FOR FREEBOARD (D).

Depth ... **10.210**
 ... **.013**
 exposed deck
 (S) = **—**
 Depth for Freeboard (D) = **10.223**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
 (D - Table depth) R = **8.33 (10.223 - 7.376) × 27.94 = +1663**
2.847
 (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) **15.85 m**
 Standard Round of Beam = $\frac{B \times 12}{50} = \frac{15.85 \times 12}{50} = \mathbf{3.77}$
 Ship's Round of Beam = **330**
 Difference **13**
 Restricted to
 Correction = $\frac{\text{Diff}^2}{4} \times (1 - \frac{S_1}{L}) = \frac{13^2}{4} \times (1 - \frac{8.106}{4}) = \mathbf{-3.47}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
g ...					
ed ...					
ing ...					
a ...					
ing aft ...					
ing forward ...					
...	20.95	20.95	2.288	—	20.95
...			min		
...					
...					
ing aft ...					
forward ...					
...	20.95	20.95			20.95

Standard Height of Superstructure **2.176 m**
 " " R.Q.D. **1004 m**
 Deduction for complete superstructure **1004 m**
 Percentage covered $\frac{S}{L} = \mathbf{18.94}$
 " " $\frac{S_1}{L} = \mathbf{18.94}$
 " " $\frac{E}{L} = \mathbf{18.94}$
 Percentage from Table, Line A. **9.47**
 (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 = **1004 × 0.0947 = -95 m**

SHEER CORRECTION.

Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
1175	1	1175	171	171	1	171
522.5	4	2090	41	41	4	164
130	2	260	12	12	2	24
—	4	—	—	—	4	—
261	2	522	42	42	2	84
1045	4	4180	106	106	4	424
2351	1	2351	335	335	1	335
		10578				1202

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 " =

Difference between sums of products $(.75 - \frac{S}{2L}) = \frac{9376 - (.75 \times 20947)}{18} = \mathbf{+341 m}$
 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 = **Ft.**
 Summer freeboard = **—**
 Moulded draught (d) = **—**

Correction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = **—**

Correction 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 = **—**

TABULAR FREEBOARD corrected for Flush Deck (if required)

Correction for coefficient **731.68 = 1.41/36**
7.36

Depth Correction ... **663**
 Deduction for superstructures ... **95**
 Sheer correction ... **341**
 Round of Beam correction ... **3**
 Correction for Thickness of Deck amidships ... **174**
 Other corrections, scantlings, etc. **1178**
 with a summer moulded draught of 24'-9½"

Summer Freeboard = **2667**

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

Tropical Fresh Water Line above Centre of Disc ...
 Fresh Water Line " " ...
 Tropical Line " " ...
 Winter Line below " " ...
 Winter North Atlantic Line " " ...

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