

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name PUNTA ASPRA (EX "TURICUM")	Official Number NOT KNOWN	Nationality and Port of Registry ITALIAN GENOVA	Gross Tonnage	Date of Build 1928	Port of Survey ANTWERP
Moulded Dimensions: Length 137^m 340 Breadth 17^m 98 Depth 10^m 40 (TO CENTRE OF RUBBER STOCK)				Date of Survey 20TH APRIL 1951.	
Moulded displacement at moulded draught = 85 per cent. of moulded depth not known tons				Surveyor's Signature <i>J. J. J. J.</i>	
Coefficient of fineness for use with Tables 177 rounded				Particulars of Classification F100A1 CARRYING PETROLEUM IN BULK.	

DEPTH FOR FREEBOARD (D). Moulded depth 10^m 40 Stringer plate 0,019 Sheathing on exposed deck (NONE) $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = 10.419	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = 3.33 (10.419 - 9.153) 30 = +315 (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) = 17^m 980 Standard Round of Beam = $\frac{B \times 12}{50} =$ 360 Ship's Round of Beam = 270 Difference = -90 Restricted to Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) = \frac{90}{4} \times \frac{5852}{10000} =$ +13
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _e)	Height	Height Correction	Effective Length (E)
Poop enclosed	SEE SKETCH AT BACK OF REPORT	22.20	22.20	22.20/22.20	22.20
" overhang	"	"	"	"	"
R.Q.D. enclosed	"	"	"	"	"
" overhang	"	"	"	"	"
Bridge enclosed	10^m 530	10.530	2^m 280	22.20/22.20	10.483
" overhang aft	"	"	"	"	"
" overhang forward	"	"	"	"	"
Fore enclosed	SEE SKETCH AT BACK OF REPORT	16.163	16.163	16.163/16.163	16.163
" overhang	"	"	"	"	"
Foremast	"	"	"	"	"
Foremast forward	"	"	"	"	"
Tonnage opening aft	"	"	"	"	"
" forward	"	"	"	"	"
Total	57.566	56.976			56.723

Standard Height of Superstructure	22.20
" " R.Q.D.	
Deduction for complete superstructure	1.067
Percentage covered S = 41.92	
" " L = 41.48	
" " E = 41.29	
Percentage from Table, Line A: TANKER, = 32.29	
(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 = 132.29 + 1.067 = 345	

NOTE: SEE SHEER PLANS ATTACHED TO REPORT

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	1398	1	1398	1^m 400	1400	1	1400	1	1400
1/2 L from A.P.	621	4	2484	0^m 340	340	4	1360	4	1360
1/2 L	155	2	310	0.000		2		2	
Amidships		4		0.000		4		4	
1/2 L from F.P.	311	2	622	0.000		2		2	
1/2 L	1243	4	4972	0^m 980	980	4	3920	4	3920
F.P.	2997	1	2997	3^m 130	3130	1	3130	1	3130
Total			12583				9810		9810

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{2773}{18} \left(\frac{.75 - .2096}{2} \right) = +83$

If limited on account of midship superstructure.

Deduction for Tropical Freeboard.

Addition for Winter and Winter North Atlantic Freeboard.

Depth to Freeboard Deck = **10.419**
 Summer freeboard = **2.104**
 Moulded draught (d) = **8.315**

Deduction for Tropical freeboard and addition for

Winter freeboard = $\frac{d}{4}$ inches =

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

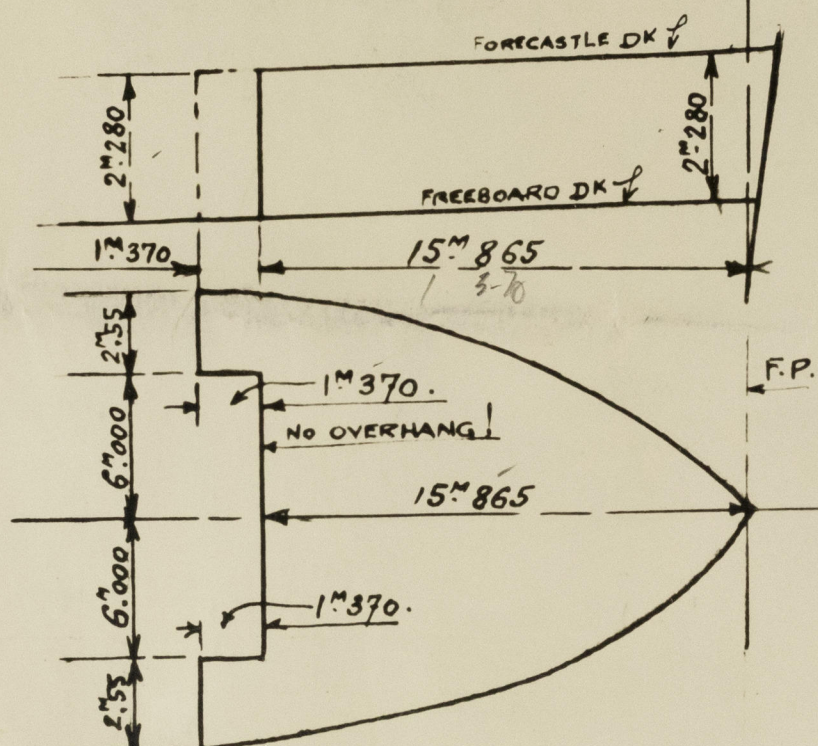
TABULAR FREEBOARD

Correction for coefficient	77 + .68 = 145	1.36
Depth Correction	315	
Deduction for superstructures	345	
Sheer correction	83	
Round of Beam correction	13	
Correction for Thickness of Deck amidships		
Other corrections, scantlings, etc.		
Summer Freeboard =	2104	

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	

SKETCH OF FORECASTLE (NOT TO SCALE)



8.230 ✓ 16.236

POOP DK ↓

2^m 280

FREE BOARD DK ↓

2^m 280

1^m 220 OVERHANG

POOP BULKHD.

CLASS I CLOSING APPLIANCES.

29^m 600

1^m 220 OVERHANG

hammer plates
at side.

For £.....