

LLOYD'S REGISTER OF SHIPPING
UNITED WITH THE BRITISH CORPORATION REGISTER
SURVEYS FOR FREEBOARD
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

Received
Index No.
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Owners C11

Ship's Name JOSELIN	Official Number 992	Nationality and Port of Registry SPANISH SANTANDER	Gross Tonnage 1958	Date of Build 1958	Port of Survey BILBAO
Moulded Dimensions: Length 61.485 Breadth 9.75 Depth 5.65					Date of Survey DURING CONSTRUCTION
Freeboard Length 61.957 (96% LENGTH FROM FORE SIDE OF STEW TO AFT SIDE OF STEW)					Surveyor's Signature J.S. Jempie
Moulded displacement at moulded draught = 85 per cent. of moulded depth 2,100 tons					Particulars of Classification + 100AS "CLASS CONTEMPLATED"
Coefficient of fineness for use with Tables 707					

DEPTH FOR FREEBOARD (D).	DEPTH CORRECTION.	ROUND OF BEAM CORRECTION.
Moulded depth ... 5.65	(a) Where D is greater than Table depth (D - Table depth) R = 8.33 (5.65 - 4.124) 18.62 = +200	Moulded Breadth (B) 9.75
Stringer plate ... 10%	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = 1.536	Standard Round of Beam = $\frac{B \times 12}{50} =$ 195
Wood Sheathing on exposed deck $T \left(\frac{L - S}{L} \right) =$	If restricted by superstructures	Ship's Round of Beam = 195
Depth for Freeboard (D) = 5.660		Difference = NIL
		Restricted to
		Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S}{L} \right) =$ NIL

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Pop. enclosed Equiv.	18.472	18.172	2.1		18.172
overhang					
R.Q.D. enclosed					
overhang					
Bridge enclosed					
overhang aft					
overhang forward					
Pods enclosed	7.485	7.485	2.0		7.485
overhang					
Trunk aft					
forward					
Tonnage opening aft					
forward					
Total	25.657	25.657			25.657

Standard Height of Superstructure **1830** mm

" " R.Q.D. **668** mm.

Deduction for complete superstructure

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

" " $\frac{S_1}{L} =$ **41.48**

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

Percentage from Table, Line A. **24.75**

(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 = **668 × .2475 = 165** mm.

X pre-ditch over.

SHEER CORRECTION.

Sheer calculation see over.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	769	1		769	769	1039	1		1039
HL from A.P.	342	4		1368	342	390	4		1560
HL	85	2		170	86	86	2		172
Amidships	0	4		0	0	0	4		0
HL from F.P.	171	2		342	171	171	2		342
HL	684	4		2736	684	684	4		2736
F.P.	1538	1		1538	1538	1538	1		1538
Total				6923					7387

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{.75 - S}{2L} \right) = \frac{464}{18} \left(\frac{.75 - .2074}{.5426} \right) = 14$ mm.

If limited on account of midship superstructure. **NIL**

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 = **5.660**

Summer freeboard = **647**

Moulded draught (d) = **5.013**

Keel allowance =

Extreme draught =

Deduction for Tropical freeboard and addition for =

Winter freeboard = $\frac{d}{48}$ inches = **104** mm.

Addition for Winter North Atlantic Freeboard (if required) = **104 + 51 = 155** mm.

Deduction for Fresh Water.

Displacement in salt water at summer load water line

$\Delta = 2206$

Tons per inch immersion at summer load water line

T = **5.29**

Deduction = $\frac{\Delta}{40 T}$ inches = **104** mm.

DRAUGHT A TONS/CM.

4.937 274 **5.26**

5.012 2806 **5.29**

5.087 2852 **5.32**

TABULAR FREEBOARD corrected for Flush Deck (if required)Correction for coefficient **1.387/1.36**

	+	-
Depth Correction	200	165
Deduction for superstructures	-	-
Sheer correction	-	-
Round of Beam correction	-	-
Correction for Thickness of Deck amidships	-	-
Other corrections, scantlings, etc.	-	-
	200	165

Summer Freeboard = **647** mm.**SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-**

Tropical Fresh Water Line above Centre of Disc **8.18** 208 mm

Fresh Water Line " " **4.09** 104 mm

Tropical Line " " **4.09** 104 mm

Winter Line below " " **4.09** 104 mm

Winter North Atlantic Line " " **6.10** 155 mm

Tropical Fresh Water Freeboard **17.29** 439 mm

Fresh Water " **21.38** 543 mm

Tropical " **21.38** 543 mm

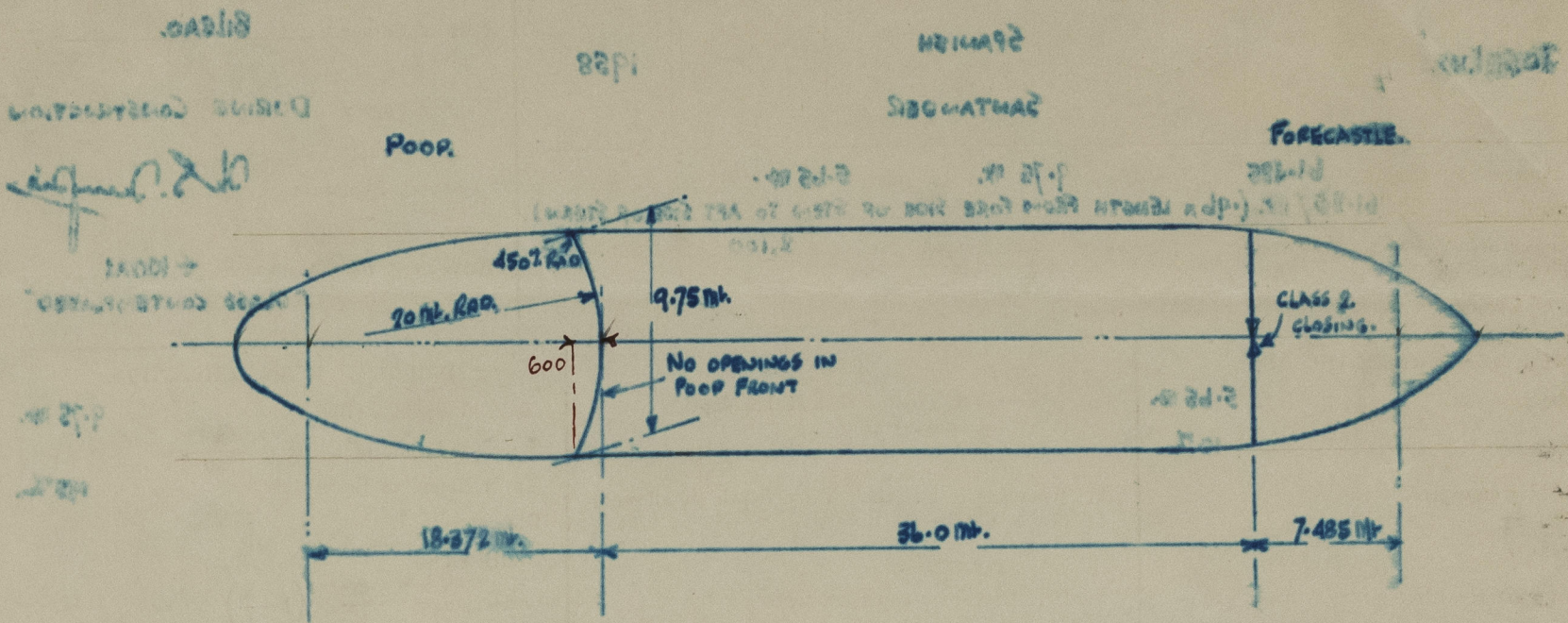
Winter " **29.56** 751 mm

Winter North Atlantic " **31.57** 802 mm

JUL 1958

JOSEPHIN

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.



Poop.

$$\begin{aligned} \text{Length at Side} &= 17.772. \\ + \frac{2}{3} \times 600 &= 400 \\ \hline &18.172. \end{aligned}$$

Shear aft.

$$\begin{aligned} \text{Poop Height} &= 2100. \\ \text{Strand} &= 1830 \\ \text{Excess} &= 270 \end{aligned}$$

$$\therefore \text{Shear at A.P.} = 769 + 270 = 1039 \text{ mm.}$$

$$\text{Shear at } \frac{1}{6} = 342 + 270 \times \left(\frac{7.462}{17.772} \right)^2 = 390 \text{ mm}$$

151
400
8631

477543

Trade of ship INTERNATIONAL

Names of sister ships "MIGUELIN POMBO"

Builder's name and yard number CORCHO HITOS. S.A. YARD No 71

Owners J.M. POMBO ROMERO - ROSADO.

Fee Rs. 3,969.

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950," paragraph 11.)



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