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

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Index No.
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Ship's Name <i>"San Ylora"</i>	Official Number	Nationality and Port of Registry <i>Spanish Santander</i>	Gross Tonnage <i>976</i>	Date of Build <i>1956</i>	Port of Survey
Moulded Dimensions: Length <i>9.750 m</i> Breadth <i>5.650 m</i> Depth <i>5.650 m</i>					Date of Survey <i>15.10.58</i>
Freeboard Length <i>61.364 m to C.R.S.</i>					Surveyor's Signature
Moulded displacement at moulded draught = 85 per cent. of moulded depth <i>2138</i> <i>metric tons</i>					Particulars of Classification <i>+100A1</i>
Coefficient of fineness for use with Tables <i>.726</i>					

DEPTH FOR FREEBOARD (D).		DEPTH CORRECTION.		ROUND OF BEAM CORRECTION.	
Moulded depth	<i>5.650</i>	(a) Where D is greater than Table depth (D-Table depth) R = <i>833(5.672-4.091)61.364 = 204 mm</i>		Moulded Breadth (B)	<i>9.750 m</i>
Stringer plate	<i>9</i>	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =		Standard Round of Beam = $\frac{B \times 12}{50}$	<i>195 mm</i>
Wood Sheathing on exposed deck				Ship's Round of Beam	<i>195 mm</i>
$T \left(\frac{L-S}{L} \right) = \frac{60 \times 13.2}{61.364}$	<i>13</i>			Difference	<i>nil.</i>
Depth for Freeboard (D) =	<i>5.672</i>	If restricted by superstructures		Restricted to	
				Correction = $\frac{\text{Diff}^2}{4} \times \left(1 - \frac{S_1}{L} \right)$	<i>nil.</i>

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					
F'cle enclosed	<i>4.723</i>	<i>4.723</i>	<i>2.1</i>		<i>4.723</i>
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	<i>4.723</i>	<i>4.723</i>			<i>4.723</i>

Standard Height of Superstructure	<i>1.830 m</i>
" " R.Q.D.	
Deduction for complete superstructure	<i>664 mm</i>
Percentage covered $\frac{S}{L} =$	
" " $\frac{S_1}{L} =$	<i>7.70</i>
" " $\frac{E}{L} =$	
Percentage from Table, Line A.	<i>3.85</i>
(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 = $.0385 \times 664$	<i>26 mm</i>

SHEER CORRECTION.							
Station	Standard Ordinate	S M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	<i>465</i>	<i>1</i>	<i>765</i>	<i>799</i>	<i>799</i>	<i>1</i>	<i>799</i>
$\frac{1}{8}$ L from A.P.	<i>340</i>	<i>4</i>	<i>1360</i>	<i>372</i>	<i>372</i>	<i>4</i>	<i>1488</i>
$\frac{2}{8}$ L "	<i>85</i>	<i>2</i>	<i>170</i>	<i>83</i>	<i>83</i>	<i>2</i>	<i>166</i>
Amidships	<i>0</i>	<i>4</i>	<i>0</i>	<i>0</i>	<i>0</i>	<i>4</i>	<i>0</i>
$\frac{3}{8}$ L from F.P.	<i>170</i>	<i>2</i>	<i>340</i>	<i>171</i>	<i>171</i>	<i>2</i>	<i>342</i>
$\frac{4}{8}$ L "	<i>680</i>	<i>4</i>	<i>2720</i>	<i>684</i>	<i>684</i>	<i>4</i>	<i>2736</i>
F.P.	<i>1530</i>	<i>1</i>	<i>1530</i>	<i>1518</i>	<i>1518</i>	<i>1</i>	<i>1518</i>
Total			<i>6885</i>				<i>7049</i>

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{164}{18} \left(.75 - \frac{.0385}{1} \right) = 6 mm$

If limited on account of midship superstructure. *Yes - nil.*

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

Deduction for Tropical Freeboard.		Deduction for Fresh Water.		TABULAR FREEBOARD	
Addition for Winter and Winter North Atlantic Freeboard.		Displacement in salt water at summer load water line		corrected for Flush Deck (if required)	
Depth to Freeboard Deck =	<i>5.659</i>	$\Delta =$		Correction for coefficient	<i>611</i>
Summer freeboard =	<i>1.544</i>	Tons per inch immersion at summer load water line			<i>632</i>
Moulded draught (d) =	<i>4.115</i>	T =		Depth Correction	<i>204</i>
Keel allowance =		Deduction = $\frac{\Delta}{40 T}$ inches		Deduction for superstructures	<i>26</i>
Extreme draught =				Sheer correction	<i>nil.</i>
Deduction for Tropical freeboard and addition for =				Round of Beam correction	<i>13</i>
Winter freeboard = $\frac{d}{48}$ inches =	<i>86 mm</i>			Correction for Thickness of Deck amidships	<i>747</i>
Addition for Winter North Atlantic Freeboard (if required) =	<i>86 + 51 = 137 mm</i>			Other corrections, scantlings, etc. to ...	<i>951</i>

593 + 18

1.406 *partial*

1.36

correspond to a 2m draught of 4.115 metres

Summer Freeboard = *1544*

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood Steel, Deck :-					
Tropical Fresh Water Line above Centre of Disc	<i>6.77</i>	<i>172 mm</i>	Tropical Fresh Water Freeboard	<i>54.02</i>	<i>1372 mm</i>
Fresh Water Line	<i>3.38</i>	<i>86 mm</i>	Fresh Water	<i>57.41</i>	<i>1458 mm</i>
Tropical Line	<i>3.38</i>	<i>86 mm</i>	Tropical	<i>57.41</i>	<i>1458 mm</i>
Winter Line below	<i>3.38</i>	<i>86 mm</i>	Winter	<i>64.17</i>	<i>1630 mm</i>
Winter North Atlantic Line	<i>5.39</i>	<i>137 mm</i>	Winter North Atlantic	<i>66.18</i>	<i>1681 mm</i>

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