

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Clea
N=35625

Ship's Name M.T. "CLEODORA"	Official Number	Nationality and Port of Registry <i>Dutch - Gravenhage</i>	Gross Tonnage 8025.84	Date of Build 1938	Port of Survey <i>Rotterdam</i>
Moulded Dimensions: Length 140.511 m Breadth 17.983 m Depth 10.363 m					Date of Survey <i>Building</i>
Moulded displacement at moulded draught = 85 per cent. of moulded depth 17620 m³ tons					Surveyor's Signature <i>P. Lemmink</i>
Coefficient of fineness for use with Tables 792					Particulars of Classification <i>+100 A1 Condemned Carryin Petroleum in bulk</i>

Depth for Freeboard (D).	Depth correction.	Round of Beam correction.
Moulded depth ... 10.363 m	(a) Where D is greater than Table depth (D - Table depth) R = 8.33(10.386 - 9.368) 30 = + 254 mm	Moulded Breadth (B) 17.983 m
Stringer plate ... 23	(b) Where D is less than Table depth (if allowed) (Table depth - D) R = ✓	Standard Round of Beam = $\frac{B \times 12}{50} =$ 360 "
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$	If restricted by superstructures ✓	Ship's Round of Beam = 360 "
Depth for Freeboard (D) = 10.386		Difference nil
		Restricted to
		Correction = $\frac{\text{Diff}^{\circ}}{4} \times \left(1 - \frac{S_1}{L} \right) =$ nil

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)
Poop enclosed <i>Square</i> ...	28,809	28,809	2286		28,809
.. overhang ...			<i>164 mm sheathing</i>		
R.Q.D. enclosed ...					
.. overhang ...					
Bridge enclosed <i>Square</i> ...	13,920	13,920	2286	2,286 2,290	13,895
.. overhang aft ...					
.. overhang forward					
Fore enclosed ...	14,722	14,722	2286		14,722
.. overhang <i>Square</i> ...	2,436	2,436	<i>164 mm sheathing</i>	2286/2290	2,432
Trunk aft ...					
.. forward ...					
Tonnage opening aft ...					
.. forward					
Total ...	59,887	59,887			59,858

Standard Height of Superstructure **2290 mm**

.. .. R.Q.D. **✓**

Deduction for complete superstructure **1067 mm**

Percentage covered $\frac{S}{L} =$ **42.62**

.. .. $\frac{S_1}{L} =$ **42.62**

.. .. $\frac{E}{L} =$ **42.60**

Percentage from Table, Line A. **Tanker 33.60**
(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 = **1067 × .336 = 358 mm**

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P. ...	1425	1		1425	1433	14	1		1425
$\frac{1}{2}$ L from A.P. ...	633	4		2532	659	6	4		2532
$\frac{3}{8}$ L ..	158	2		316	158	158	2		316
Amidships ...	-	4		-	0	-	4		-
$\frac{3}{8}$ L from F.P. ...	316	2		632	308	308	2		616
$\frac{1}{2}$ L ..	1266	4		5064	1261	1261	4		5044
F.P. ...	2849	1		2849	2847	2847	1		2847
Total ...				12818					12780

Mean actual sheer aft = **Excess**

Mean standard sheer aft

Mean actual sheer forward = **Deficient**

Mean standard sheer forward

Length of enclosed superstructure forward of amidships =

.. .. aft of .. = } **Tanker**

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{38}{18} \left(.75 - \frac{2131}{5369} \right) + 1\% = 1\%$ If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100 ft. **✓**

If limited on account of midship superstructure.

<p>Deduction for Tropical Freeboard.</p> <p>Addition for Winter and Winter North Atlantic Freeboard.</p> <p>Depth to Freeboard Deck = 10.386 m</p> <p>Summer freeboard = 2.040</p> <p>Moulded draught (d) = 8.346</p> <p>Deduction for Tropical freeboard and addition for Winter freeboard = $\frac{d}{4}$ inches = 174 = 17 cms.</p> <p>Addition for Winter North Atlantic Freeboard (if required) = 174 + 115 = 289 = 29 cms.</p>	<p>Deduction for Fresh Water.</p> <p>Displacement in salt water at summer load water line</p> <p>$\Delta = 16650 m^3$</p> <p>Tons per inch immersion at summer load water line</p> <p>$T = 22.23$</p> <p>Deduction = $\frac{\Delta}{40T}$ inches = 187 mm</p> <p>= 19 cms.</p>	<p>TABULAR FREEBOARD corrected for Flush Deck (if required)</p> <p>Correction for coefficient $\frac{.792 + .68}{1.36} = \frac{1.472}{1.36}$</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>+</th> <th>-</th> </tr> <tr> <td>Depth Correction ...</td> <td>254</td> <td>-</td> </tr> <tr> <td>Deduction for superstructures ...</td> <td>-</td> <td>358</td> </tr> <tr> <td>Sheer correction ...</td> <td>1</td> <td>-</td> </tr> <tr> <td>Round of Beam correction ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Correction for Thickness of Deck amidships ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>Other corrections, scantlings, etc. ...</td> <td>-</td> <td>-</td> </tr> <tr> <td>255</td> <td>358</td> <td>- 103</td> </tr> </table> <p>Summer Freeboard = 2039 mm</p>		+	-	Depth Correction ...	254	-	Deduction for superstructures ...	-	358	Sheer correction ...	1	-	Round of Beam correction ...	-	-	Correction for Thickness of Deck amidships ...	-	-	Other corrections, scantlings, etc. ...	-	-	255	358	- 103
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck:—

Tropical Fresh Water Line above Centre of Disc ... 36 cms.	Tropical Fresh Water Freeboard ... 168 "
Fresh Water Line " " ... 19 "	Fresh Water " " ... 185 "
Tropical Line " " ... 17 "	Tropical " " ... 187 "
Winter Line below " " ... 17 "	Winter " " ... 22 "
Winter North Atlantic Line " " ... 29 "	Winter North Atlantic " " ... 233 "

Cleodora.

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.

Roof
Equivalent Bulkhead
27849
 $\frac{2}{3} \times 1440 = 960$
28809

Bridges
Equivalent Bulkhead
13107
 $\frac{2}{3} \times 1219 = 813$
13920

Forecastle sidehouse

$\frac{7364 \times 5511}{16664} = 2436$ equivalent length

Trade of ship Ocean

Names of sister ships MT Clea P&MS report No 26795.

Builder's name and yard number Kon Maats. De Schelde Flushing Janb No 206

Owners Petroleum Maats "La Corona"

Fee 228



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