

Lloyd's Register of Shipping.
SURVEYS FOR FREEBOARD.
(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name M.T. "PAPENDRECHT."	Official Number	Nationality and Port of Registry Dutch Rotterdam.	Gross Tonnage 10746.04	Date of Build 1940	Port of Survey Rotterdam
Moulded Dimensions: Length 149.28 M^r Breadth 22.250 M^r Depth 10.795 M^r					Date of Survey Building
Moulded displacement at moulded draught = 85 per cent. of moulded depth 22830 M³ tons					Surveyor's Signature [Signature]
Coefficient of fineness for use with Tables .449					Particulars of Classification +100 A1 Carrying Petroleum in Bulk (contemplated)

Depth for Freeboard (D).		Depth correction.	Round of Beam correction.
Moulded depth	10795	(a) Where D is greater than Table depth (D-Table depth) R = $8.33 / (10.816 - 9.952) / 30 = + 216 \text{ }^{\text{m}}_m$	Moulded Breadth (B) 22250.
Stringer plate	21	(b) Where D is less than Table depth (if allowed) (Table depth-D) R =	Standard Round of Beam = $\frac{B \times \square}{50} = 445$
Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$		If restricted by superstructures	Ship's Round of Beam = 445.
Depth for Freeboard (D) =	10816.		Difference = NIL.
			Restricted to
			Correction = $\frac{\text{Diff}^a}{4} \times \left(1 - \frac{S_1}{L} \right) = \text{NIL.}$

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S ₁)	Height	Height Correction	Effective Length (E)	
Poop enclosed EQUIV.	35.510	35.510	2440.		35.510	Standard Height of Superstructure 2290
" overhang ...						" " R.Q.D.
R.Q.D. enclosed						Deduction for complete superstructure 1067 ^m / _m
" overhang						Percentage covered $\frac{S}{L} = 33.5$
Bridge enclosed...						" " $\frac{S_1}{L} =$
" overhang aft						" " $\frac{E}{L} =$
" overhang forward	14.500					Percentage from Table, Line A. TANKER 24.50
F'cle enclosed EQUIV.	12.880	14.500	2440.		14.500	(corrected for absence of forecastle (if required))
" overhang	685.					Percentage from Table, Line B.
Trunk aft						(corrected for absence of forecastle (if required))
" forward						Interpolation for bridge less than 2L (if required)
Tonnage opening aft						Deduction = .245 x 1067 = 261 ^m / _m .
" " forward						
Total	50.010	50.010			50.010	

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product	
A.P. ...	1498	1		1498	1493	1493	1		1493	Mean actual sheer aft = DEFICIENT, Mean standard sheer aft
$\frac{1}{2}$ L from A.P. ...	665	4		2660	666	666	4		2664	Mean actual sheer forward = DEFICIENT, Mean standard sheer forward
$\frac{2}{3}$ L " ...	166	2		332	163.	163	2		326	Length of enclosed superstructure forward of amidships =
Amidships ...	-	4		-	0.	-	4		-	" " aft of " = } TANKER.
$\frac{2}{3}$ L from F.P. ...	333	2		666	333.	333	2		666	
$\frac{1}{2}$ L " ...	1331	4		5324	1331.	1331	4		5324	
F.P. ...	2995	1		2995	2989.	2989	1		2989	
Total				13475					13462	

Correction = $\frac{\text{Difference between sums of products}}{18} \left(\frac{75-S}{2L} \right) = \frac{13}{18} \left(\frac{75-16475}{2} \right) = \text{NEGLECTIBLE.}$

If limited on account of midship superstructure. If limited to maximum allowance of 1 1/2 ins. per 100 ft.

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Fresh Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient $\frac{.449 + .68}{1.36} = \frac{1.429}{1.36}$	2161 ^m / _m
Depth to Freeboard Deck = 10.816	$\Delta = 21.480$		2271 "
Summer freeboard = 2.230	Tons per inch immersion at summer load water line	Depth Correction ... 216	
Moulded draught (d) = 8.586	T = 42.40	Deduction for superstructures ... 261	
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40T}$ inches	Sheer correction ...	
Winter freeboard = $\frac{d}{48}$ inches = 179 ^m / _m = 18 c.M.	= 4.42 " = 188 ^m / _m	Round of Beam correction ...	
Addition for Winter North Atlantic Freeboard (if required) = 179 + 122 = 301 = 30 c.M.	19 c.M.	Correction for Thickness of Deck amidships ...	
		Other corrections, scantlings, etc. ...	
		216 261 - 45 "	
		Summer Freeboard = 2226 ^m / _m	

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

Tropical Fresh Water Line above Centre of Disc ...	37 c.M.	Tropical Fresh Water Freeboard ...	186 "
Fresh Water Line " " ...	19 "	Fresh Water " " ...	204 "
Tropical Line " " ...	18 "	Tropical " " ...	205 "
Winter Line below " " ...	18 "	Winter " " ...	241 "
Winter North Atlantic Line " " ...	30 "	Winter North Atlantic " " ...	253 "

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.

Trade of ship European & Atlantic trade.

Names of sister ships M.T. "PENDRECHT"

Builder's name and yard number Rotterdamse Doozden Maatschappij Yard number 212

Owners N.V. Maatschappij Motorship "Papendrecht." Stormvaan Maats. "De Maas"
VESSEL NOW UNDER GERMAN FLAG. (NAVY).

Fee f 240.-



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