

Lloyd's Register of Shipping.  
SURVEYS FOR FREEBOARD-STEAMERS.

Index No. 32881  
(For London Office only.)  
Port of Survey  
Date of Survey 12-1-31  
Name of Surveyor

Ship's Name. BELGIAN GULF	Port of Registry and Nationality.	Official Number.	Gross Tonnage.	Date of Build.	Particulars of Classification. 100 A1 Carrying petroleum in bulk.
Number in Register Book					

Moulded dimensions 450 x 61 x 34.5  
Moulded displacement at a moulded draught of 85 per cent. of moulded depth not given  
Coefficient of fineness for use with tables

DEPTH, FOR FREEBOARD.

Moulded depth	...	...	...	...	34.50
Stringer plate	...	...	...	...	.06
Sheathing in wells $T \left( \frac{L-S}{L} \right) =$	...	...	...	...	-
Depth D =	...	...	...	...	34.56

CORRECTION FOR LENGTH.

(a) When D is greater than $\frac{L}{15}$ $\left( D - \frac{L}{15} \right) \times R =$	$\frac{34.56 - 30.00}{4.56} \times 3$	+ 13.68"
(b) When D is less than $\frac{L}{15}$ (if allowed). $\left( \frac{L}{15} - D \right) \times R =$	...	-
If restricted by height of superstructures	...	-

SUPERSTRUCTURES.

	Mean Covered Length S.	Equivalent Enclosed Length S <sub>1</sub> .	Height.	Correction for Height.	Effective Length.
Poop enclosed	121.0	121.0	7'-2 7/8"	121 x 7.22 / 7.5	116.5
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed	40.5	40.5	do.	40.5 x do	39.0
" overhang aft					
" overhang forward					
F'cle enclosed open 10.6	45.00	45.0	do	45.31 x do	43.61
" overhang	.62	.31			
Trunks forward					
" aft					
Tonnage opening					

TOTAL = 207.12 206.81 199.11  
Length of ship (L) = 450 450 450  
% Covered ... = 46.02 45.96 44.25  
Corresponding %, corrected for absence of forecastle if required } A =  
Allowance ... = 42 x .3525 = -14.80"

Standard height of  
superstructure 7'-6"  
assuming closing appliances  
at ends of bridge conform with  
convention requirements for  
full allowance.

SHEER.

Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.
A.P. 1	48.87	55.0	48.87	1	48.87
2	22.22	24.45	22.22	4	88.88
3	5.55		5.55	2	11.10
4	-		-	4	-
5	10.73		10.73	2	21.46
6	42.91	48.9	42.91	4	171.64
F.P. 7	114.25	110.8	114.25	1	114.25

Mean effective sheer ... 18) 456.20  
Standard sheer .05L + 5 = 25.34  
Difference (Df) = 27.50  
Allowance =  $Df \times \left( .75 - \frac{S}{2L} \right) = 2.16 (.75 - .23) = 2.16 \times .52 = 1.12$   
If limited on account of amidship superstructure ...  
If limited on account of excess sheer (1 1/2 in. per 100 ft.) ...

If excess sheer forward and deficient sheer aft :-

Actual sheer aft = Deficient  
Standard sheer aft  
Actual sheer forward = do.  
Standard sheer forward

Length of enclosed superstructure

L  
Forward of amidships = Tanker.  
Aft of amidships =

ROUND OF BEAM.

Standard	...	...	...	...	14.64
Ship	...	...	...	...	14.50
Difference	...	...	...	...	.14
Restricted to	...	...	...	...	
Allowance = $\frac{\text{Difference}}{4} \times \left( 1 - \frac{S_1}{L} \right) = .03 \times .54 = .02$					

TABULAR FREEBOARD (corrected for flush deck if required) =

Corrected for Coefficient	$\frac{+ .68}{1.36} =$	
Correction for Length	...	13.68
" Superstructures	...	14.80
" Sheer	...	1.12
" Round of beam	...	.02
" Thickness of deck	...	
" Scantlings, etc.	...	
" Statutory deck line	...	
		14.92 14.80 + 0.02

Summer Freeboard =

FREEBOARD recommended amidships from centre of Disc to top of Statutory Deck Line, Wood (Steel) Deck :-

Fresh Water Line	above centre of Disc	...	...	...
Indian Summer Line	"	...	...	...
Winter Line	below	...	...	...
Winter North Atlantic Line	"	...	...	...

