

T. D. closed (W. E.)

B.T. COPY.

Index No. 36146
(For London Office only).

Rpt. C.11 (Comp.).
Cefu-y-Bryn 36048
Arcresl 36430
Sun
Cefu-y-Bryn 36505
Ger

Lloyd's Register of Shipping.

SURVEYS FOR FREEBOARD.

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER.)

Ship's Name DAN-Y-BRYN	Official Number 167382	Nationality and Port of Registry British, London	Gross Tonnage 1939	Date of Build 1939	Port of Survey 4. 3. 41
Moulded Dimensions: Length 412.0' Breadth 57.66' Depth 37.83'				Surveyor's Signature	
Moulded displacement at moulded draught = 85 per cent. of moulded depth				Particulars of Classification +100A1 with freeboard.	
Coefficient of fineness for use with Tables .775 (estimated) ✓					

Depth for Freeboard (D).		Depth correction.		Round of Beam correction.	
Moulded depth	37.83	(a) Where D is greater than Table depth		Moulded Breadth (B)	57.67
Stringer plate	.05	(D - Table depth) R =	(37.88 - 27.47) 3 = + 31.23 ✓	Standard Round of Beam = $\frac{B \times 12}{50}$	= 13.84
Sheathing on exposed deck	✓	(b) Where D is less than Table depth (if allowed)		Ship's Round of Beam	= 13.87 ✓
T $\left(\frac{L-S}{L}\right) =$	✓	(Table depth - D) R =	✓	Difference	.03 ✓
Depth for Freeboard (D) =	37.88	If restricted by superstructures	✓	Restricted to	
				Correction = $\frac{\text{Diff}}{4} \times \left(1 - \frac{S_1}{L}\right)$	= $\frac{.03}{4} = -.01$ ✓

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					
Fore enclosed					
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" forward					
Total					

Flush Deck

Standard Height of Superstructure

" " R.Q.D.

Deduction for complete superstructure

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

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

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

Percentage from Table, Line A.
(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 = **Nil.**

SHEER CORRECTION.

Station	Standard Ordinate	S	Product	Actual Ordinate	Effective Ordinate	S	Product
A.P.	51.20	1	51.20	78.00	78.00	1	78.00
$\frac{1}{8}L$ from A.P.	22.785	4	91.14	34.75	34.75	4	139.00
$\frac{2}{8}L$	5.63	2	11.26	8.625	8.625	2	17.25
Amidships		4				4	
$\frac{3}{8}L$ from F.P.	11.26	2	22.52	11.50	11.50	2	23.00
$\frac{4}{8}L$	45.57	4	182.28	46.75	46.75	4	187.00
F.P.	102.40	1	102.40	105.00	105.00	1	105.00
Total			460.80				548.25

Mean actual sheer aft =

Mean standard sheer aft =

Mean actual sheer forward =

Mean standard sheer forward =

Length of enclosed superstructure forward of amidships =

" " aft of " =

Correction = $\frac{\text{Difference between sums of products}}{18} \times \left(\frac{S}{2L}\right) = \frac{88.45}{18} \times .75 = -3.64$

If limited on account of midship superstructure.

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

Deduction for Tropical Freeboard.	Deduction for Fresh Water.	TABULAR FREEBOARD corrected for Flush Deck (if required)	
Addition for Winter and Winter North Atlantic Freeboard.	Displacement in salt water at summer load water line	Correction for coefficient	81.42 ✓
Depth to Freeboard Deck = 37.88	$\Delta =$	$\frac{75.24 + 6.18}{1.36} = \frac{81.42}{1.36} = 59.87$	87.10 ✓
Summer freeboard = 11.31	Tons per inch immersion at summer load water line	Depth Correction	31.23
Moulded draught (d) = 26.57	T =	Deduction for superstructures	-
Deduction for Tropical freeboard and addition for	Deduction = $\frac{\Delta}{40T}$ inches	Sheer correction	- 3.64
Winter freeboard = $\frac{d}{4}$ inches = 6.64 = 6.64	= $7\frac{1}{4}$	Round of Beam correction	.01
Addition for Winter North Atlantic Freeboard (if required) =		Correction for Thickness of Deck amidships	- 12
		Other corrections, including	21.07
		Summer moulded draught	52.30
		26.63/4 (26.678)	3.45
			+ 48.65 ✓
			Summer Freeboard = 135.75 ✓

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

Tropical Fresh Water Line above Centre of Disc	14"
Fresh Water Line	7 1/4"
Tropical Line	6 3/4"
Winter Line	6 3/4"
Winter North Atlantic Line	✓

Tropical Fresh Water Freeboard	10' - 1 3/4"
Fresh Water	10' - 8 1/2"
Tropical	10' - 9"
Winter	11' - 10 1/2"
Winter North Atlantic	✓

4 APR 1941