Amended

Rpt. C.11 (Comp.)

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

Ship's Name	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build
EMPIRE CELTIC.				

Moulded Dimensions : Length **323·25** Breadth **54·0** Depth **27·0**

Freeboard Length _____

Moulded displacement at moulded draught = 85 per cent. of moulded depth _____ tons (excluding bossing)

Coefficient of fineness for use with Tables _____ **·91** _____

Port of Survey _____

Date of ~~Survey~~ **28·8·56**

Surveyor's Signature _____

Particulars of Classification _____

DEPTH FOR FREEBOARD (D).

Moulded depth ... ... **27·00**

Stringer plate ... ... **·03**

Wood Sheathing on exposed deck

$T\left(\dfrac{L-S}{L}\right) =$

Depth for Freeboard (D) = **27·03**

DEPTH CORRECTION.

(a) Where D is greater than Table depth
(D—Table depth) R =
$\left(\dfrac{27·03 - 21·55}{5·48}\right) 2·486 = +13·62''$

(b) Where D is less than Table depth (if allowed)
(Table depth—D) R =

If restricted by superstructures

ROUND OF BEAM CORRECTION.

Moulded Breadth (B) **54·00**

Standard Round of Beam = $\dfrac{B \times 12}{50}$ = **12·96**

Ship's Round of Beam = **Nil**

Difference **12·96**

Restricted to

Correction = $\dfrac{\text{Diff}^e}{4} \times \left(1 - \dfrac{S}{L}\right)$ = $\dfrac{12·96}{4}$ = **3·24''**

DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S₁)	Height	Height Correction	Effective Length (E)
Poop enclosed ...					
" overhang ...					
R.Q.D. enclosed ...					
" overhang ...			*Flush Deck*		
Bridge enclosed ...					
" overhang aft					
" overhang forward ...					
F'cle enclosed ...					
" overhang ...					
Trunk aft ...					
" forward ...					
Tonnage opening aft					
" " forward...					
Total ...					

Standard Height of Superstructure _____

" " R.Q.D. _____

Deduction for complete superstructure _____

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

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

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

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 M	Product	Actual Ordinate	Effective Ordinate	S M	Product
A.P.	42·325	1	42·32	27·34	27·74	1	27·34
¼L from A.P. ...	18·835	4	75·34	13·29	13·29	4	53·16
¾L " ...	4·655	2	9·31	—	—	2	—
Amidships ...	O	4	O	O	O	4	O
¼L from F.P. ...	9·31	2	18·62	—	—	2	—
¾L " ...	37·67	4	150·68	—	—	4	—
F.P.	84·65	1	84·65	35·42	35·42	1	35·42
Total ...			380·92				115·92

Mean actual sheer aft =
Mean standard sheer aft = } *Deficient*

Mean actual sheer forward =
Mean standard sheer forward = }

Length of enclosed superstructure $\dfrac{\quad}{L}$ forward of amidships =

" " aft of " = **Flush Dk**

Correction = $\dfrac{\text{Difference between sums of products}}{18} \left(·75 - \dfrac{S}{2L}\right) = \dfrac{265}{18} \times ·71 = 11·04''$

If limited on account of midship superstructure.   If limited to maximum allowance of 1½ ins. per 100ft.

Deduction for Tropical Freeboard.
Addition for Winter and Winter North Atlantic Freeboard.

	Ft.
Depth to Freeboard Deck =	27·03
Summer freeboard =	14·55
Moulded draught (d) =	12·18
Keel allowance =	
Extreme draught =	
Deduction for Tropical freeboard and addition for =	
Winter freeboard = $\dfrac{d}{4}$ inches =	3"

Addition for Winter North Atlantic Freeboard (if required)=

Deduction for Fresh Water.

Displacement in salt water at summer load water line
Δ =

Tons per inch immersion at summer load water line
T =

Deduction = $\dfrac{\Delta}{40\,T}$ inches

3"

TABULAR FREEBOARD corrected for Flush Deck (if required)	$49·25 + 4·85$	**54·10**
Correction for coefficient $\dfrac{·91 + ·68}{1·36} = \dfrac{1·59}{1·36}$		**13·25**

	+	−
Depth Correction	13·62	
Deduction for superstructures		—
Sheer correction	11·04	
Round of Beam correction	3·24	
Correction for Thickness of Deck amidships ...		—
Other corrections, scantlings, etc. ...	87·10	
	115·00	

cross ford in the summer
moulded draught 9/
12'-2⅝"

AR 28·8·56
11·5·00

Summer Freeboard = **178·25**

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

Tropical Fresh Water Line above Centre of Disc	Not assigned	Tropical Fresh Water Freeboard	Not assigned
Fresh Water Line "	3"	Fresh Water "	14'-7¼"
Tropical Line "	Not assigned	Tropical "	Not assigned
Winter Line below "	3"	Winter "	15-1¼"
Winter North Atlantic Line "	Not assigned	Winter North Atlantic "	Not assigned

14'-10¼"

5m,6.55. T.