

CONVENTION FREEBOARD 1930

NAME **ENGLAND**
 MOULDED DIMENSIONS **283.0 x 41.83 x 20.33**
 MLD DISPLACEMENT AT 85 Dm
 BLOCK COEFF^t FOR USE WITH TABLE **.768**

DEPTH FOR FREEBOARD

MEAN DEPTH
 STRINGER
 SHEATHING IN WELLS
 $T \left(\frac{L-S}{L} \right) =$
 $D =$

20.33
.04
20.37

SUPERSTRUCTURES

	MEAN COVERED LENGTH S	EQUIVALENT ENCLOSED LENGTH S ₁	HEIGHT	CORRECTION FOR HEIGHT	EFFECTIVE LENGTH E
POOP ENCLOSED	18.58	18.58	7.5		18.58
OVERHANG	✓	✓			
RQD ENCLOSED	92.50	92.50	4.0	$\times \frac{4.0}{4.44}$	83.33
OVERHANG	✓	✓			
BRIDGE ENCLOSED	52.50	52.50	7.5		52.50
OVERHANG AFT	2.50	1.25			1.25
FORD	✓	✓			
FILE ENCLOSED	27.65	27.65	7.5		27.65
OVERHANG	✓	✓			
TRUNKS	✓	✓			
TONNAGE OPENING	✓	✓			

TOTAL 193.73 192.48 183.31
 LENGTH OF SHIP, L 283.0 283 283

% COVERED 68.46 68.00 64.77

CORRESPONDING % TABLE = 54.11 ; CORRECTED FOR ABSENCE OF FILE IF REQ^d =

ALLOWANCE = $34.2 \times .5711$

EFFECTIVE LENGTH OF BRIDGE =
 L

CORRECTION FOR LENGTH

(a) $D > \frac{1}{15}$ $(D - \frac{1}{15}) \times R = (20.37 - 18.80) \times 2.17$

(b) $D < \frac{1}{15}$

- (i) with enclosed superstructure covering at least .6L amidships
- (ii) with a combination of intact partial superstructures and trunk
- (iii) with a complete trunk

$(\frac{L}{15} - D) \times R =$

If restricted by height of superstructures =

CORRECTION FOR ROUND OF BEAM

STANDARD = 10.04

SHIP = 10.00

DIFFERENCE = .04

RESTRICTED TO

ALLOWANCE = $\frac{\text{DIFFERENCE}}{4} \times (1 - \frac{S_1}{L}) = \frac{.04}{4} \times (.3434)$

CORRECTION FOR SHEER

STATION	ACTUAL SHEER	STANDARD SHEER	ALLOWED SHEER	S.M	PRODUCTS
AP 1	52.0	38.3		1	52.0
2	28.5			4	114.0
3	12.67			2	25.34
4	3.17			4	12.68
5	6.36		Actual	2	25.44
6	25.44			4	50.88
7	57.25			2	229.0
FP 1	104.0	76.6		4	229.0
				1	104.0

21.18 613.34

MEAN EFFECTIVE SHEER = 25.55

STANDARD SHEER = .05L + 5 = 19.15

DIFFERENCE (D_f) = 6.40

ALLOWANCE = $D_f \times (75 - \frac{S}{2L}) = 6.4 \times (.75 - \frac{342}{283}) = 2.61$

LENGTH ENCLOSED BRIDGE L for d of * .082, a/b of * .5

2.61 x .182

IF LIMITED OR RESTRICTED ON ACCOUNT OF SUPERSTRUCTURE =

ACTUAL SHEER AFT
 STANDARD SHEER AFT

ACTUAL SHEER FORD
 STANDARD SHEER FORD

TABULAR FREEBOARD (CORRECTED FOR FLUSH DECK IF NECESSARY)

CORRECTED FOR BLOCK COEFF^t = $\frac{.768 + .68}{1.36} =$

+	-
3.29	-
-	2.38
-	18.50
-	-
-	-

3.29 20.88
 3.29
 17.59

CORRECTION FOR LENGTH

- SHEER
- SUPERSTRUCTURES
- ROUND OF BEAM
- THICKNESS OF DECK

FRESH WATER FREEBOARD

LIGHT SUMMER

SUMMER

WINTER

HEAVY WINTER



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England
1930 Convention



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