

# MIDSHIP SECTION

## S.S. N<sup>o</sup>s 244-5.

Scale  $\frac{1}{2}$  = 1 foot.

Length 399' 6" Breadth 52' 66" m/d. Depth 26' 92"

Tween decks 8' 6" above

Plan of casings, bulkheads & hatches to be submitted later.

Shelter deck plating  
40 for  $\frac{1}{2}$  length to 34 at ends.  
Butts double riveted for  $\frac{1}{2}$  length.  
Single at ends.

Shelter deck

Shelter Deck stringer

66 x 54 for  $\frac{1}{2}$  length to 35 x 44  
Butts treble riveted all fore & aft.  
Stringer angle 5 x 5 x 58 for  $\frac{1}{2}$  length  
to 42 at ends.

Channel Runners  
6 x 32 x 32 x 45

Pillars 2 7/8 dia.

Shelter Deck Beams.

32 x 32 x 50 b.a. reduced at ends  
as per Rules.  
1/2 beams 7 x 3 x 42 b.a.  
for Hatch end beams, see Hatch plan

Upper deck plating.

(not required by rule)  
37 for  $\frac{1}{2}$  length to 30.  
Butts single riveted all fore & aft.

Upper deck  
22 Camber.

Upper Deck Beams.

11 x 32 x 56 b.a. Reduced at ends  
as per Rules.  
1/2 beams 9 x 32 x 56 b.a.  
for Hatch end beams, see Hatch plan.

Double bottom

Solid floors 40 to 36 50 in boiler space.  
On every frame forward of  $\frac{1}{2}$  length in Engine space.  
Also at after end. Elsewhere on every 3rd frame (see profile).  
Solid floors flanged on top in lieu of Reverse Frames  
except in Engine space, forward of  $\frac{1}{2}$  length,  
and under boiler bearers.  
Reverse frames in Engine space for 8' 0" each  
side of centre to be 32 x 32 x 70 double.  
Reverse frames under boiler bearers 32 x 32 x 50 double.  
Reverse frames forward  $\frac{1}{2}$  length 32 x 32 x 38 single.  
Frames on solid floors 32 x 32 x 40 single double fore & aft. For rule forward of Collision Bulk.  
Bracket floors 40 to 36 50 in boiler space.  
Frames on Bracket floors 7 x 32 x 44 b.a. Reduced at  
ends where space  
is reduced 1' 0"  
Reverse frames 7 x 32 x 40 b.a. 50 in boiler space.  
Side girders 40 to 36 50 in boiler space.  
Flanged to solid floors except forward  $\frac{1}{2}$  length.  
Reverse frames on solid floors 32 x 32 x 70 50 in B.S. single.

for Pillars & girders  
see profile.

Frames

Frames spaced 24" apart in fore peak  
and 25" 2" apart between Peak Bulkheads.  
11 x 32 x 58 b.a.s between Peak bulkheads  
Reduced owing to deeper T.O.B.s & beam knees.  
Frames in Peaks 7 x 32 x 72 b.a.s to shoulder & Pole deck.  
Frames 0, 1, 2, 3, 4 x 32 x 30 angles with 34 x 3 x 50 Rev. Bars.  
Short frames in Tween decks clear of Peaks & 32 x 30 angles  
scattered 33" on to Main frames.  
All main frames carried to Upper deck except at  
Hatch ends where they are carried to Shelter deck.

Stem bar 102 x 24  
Propeller post 102 x 72  
Rudder 9 x 72

Margin Plate.

35 x 78 58 in boiler space.  
Butts treble riveted for  $\frac{1}{2}$  length.  
Double at ends.  
Margin angle 4 x 4 x 78  
Outside vertical angles 5 x 5 x 52.  
62 in boiler space.  
Inside vertical angles 5 x 32 x 70  
50 in boiler space.  
Gusset angles 4 x 3 x 70 50 in boiler space.  
Fitted on every 2nd frame.  
Tank outside Brackets 40 to 36 50 in B.S.  
Flanged 32 on top.  
11 x 78 Rivets in outside angles where Gusset is fitted.  
13 x 78 Rivets where no Gusset is fitted.

Tank top plating.

Centre strake 50 to 40 56 in boiler space.  
Butts treble riveted for  $\frac{1}{2}$  length. Double at ends.  
Tank top in holds 40 for  $\frac{1}{2}$  length to 36 at ends.  
48 in engine space. 56 in boiler space.  
Butts double riveted for  $\frac{1}{2}$  length. Single at ends.  
Tank top increased 08 in lieu of Wood Ceiling.

Centre Girder

Top bar 42 x 42 x 60 to 56  
60 in Boiler space single  
Centre girder plate 43 x 50 x 70  
60 in boiler space.  
Butts treble riveted all fore & aft.  
Vertical lugs 5 x 5 x 56 single for  
 $\frac{1}{2}$  length 32 x 32 x 40 single at ends.  
Bottom bars 42 x 42 x 60 for  
 $\frac{1}{2}$  length to 42 x 42 x 56 at ends.

Double Single

Double angles of Rule scantlings  
in fore hold, forward of  $\frac{1}{2}$  length in  
Engine space.

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Numerals	
Breadth moulded	52.66
Depth	26.92
+ 5' for 8' 6" tween dks.	.5
Depth for numerals	27.42
Transverse number	30.03
Length B.P.	399.6
Longitudinal number	31999
Erections	2397
Cosings etc.	308
Equipment number	34704
Length - depth to shelter dk.	11.28
a =	23.34

Equipment	
2 Power anchors, each 60 cwt's Stockless	
1 Steam anchor	502
1 Keage	164 ex stock
270 fathoms 2 1/2" Stud chain cable	
90 " 4 1/2" Steel wire	
120 " 4 1/2" " " " "	
90 " 3 1/2" " " " "	
90 " 3" " " " "	
20 90 " 2 1/2" " " " "	

M strike in.  
69 x 76 to 44.  
Butts quadruple riveted  
for  $\frac{1}{2}$  length. Treble at ends.

L strike Out.  
74 x 66 to 44.  
Butts quadruple riveted  
for  $\frac{1}{2}$  length. Treble at ends.

K strike In.  
66 x 66 to 48 44 in Peaks

J strike Out.  
66 x 66 to 48 44 in Peaks.

H strike In.  
66 x 66 to 48 44 in Peaks.

G strike Out.  
66 x 66 to 48 44 in Peaks.

F strike In.  
66 x 62 to 46  
Butts Quad<sup>e</sup> riveted  
for  $\frac{1}{2}$  length. Treble  
at ends.

Keel Out.  
44 x 98 for  $\frac{1}{2}$  length to 70.  
Butts quadruple riveted.  
Treble where 76" under

B strike in.  
72 x 62 x 46

C strike out.  
72 x 62 x 46

D strike in.  
72 x 62 x 46

E strike out.  
72 x 62 x 46

B.C.D & E strakes Quadruple riveted for  $\frac{1}{2}$  length. Treble at ends.  
B reduced .04 where solid floors are fitted on every frame.  
B.C & D to maintain midship thickness 10 for Rule position of Collision Bulkhead.  
Bottom forward strengthened as per Rules.  
7 frames to be submitted

Vertical lugs 32 x 32 x 40

I Knott.  
8. Dec. 1916



RETAIN

Northumberland S. Co Ltd

SS 245

Friendship Section as built

~~S.S. "Clan Macvee"~~

~~Nov 1891 40821~~

S.S. "CLAN MACVEY."

NEWCASTLE ON TYNE.

Report No. 71144.

W953-0182



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