

7.5.20

# N.I. CLASS. RUDDER FRAME. SCALE $\frac{1}{2}$ " = 1 FOOT.

RUDDER STOCK OF FORGED OR HYDRAULIC PRESSED STEEL.

ARMS FORGED OR OF CAST STEEL.

TO PASS LLOYDS OR BRITISH CORPORATION TESTS.

A = AREA OF RUDDER = 148 sq. ft.  
 D = C. OF G. ABAFT CL. OF PINTLES = 4.08 FEET.  
 A x D = 604.  
 SPEED = 10 - 12 KNOTS.

DETAIL OF STOPPERS.  
 SCALE 3" = 1 FOOT.

STOPPERS MADE TO ACT WHEN RUDDER IN AT AN ANGLE OF 42° TO PORT OR STARN.

DETAIL OF PINTLES AT ARMS MARKED A.  
 SCALE 3" = 1 FOOT.

DETAIL OF COUPLING.  
 SCALE  $\frac{1}{2}$ " = 1 FOOT.

NOTES.  
 COUPLING BOLTS  $\frac{3}{4}$ " TO  $\frac{1}{2}$ " DIA. THREADS OF COUPLING BOLTS TO BE MADE SHAPED THUS  $\frac{1}{4}$ " DIA. NUTS TO BE FITTED WITH TAPERED PIN. BOUTHEADS TO BE  $\frac{1}{2}$ " CLEAR OF COUPLING WHEN SCREWED UP. KEY  $2\frac{1}{4}$ " DIA. TAPERED TO  $1\frac{1}{2}$ " x  $1\frac{1}{2}$ " TO BE  $\frac{1}{4}$ " LONGER THAN COUPLING WITH SQUARE END FOR BRIMMING UP. ALSO STRAP TO BE FITTED OVER END OF KEY, TAPPED TO FLANGER TO KEEP KEY IN POSITION. STRAPS SUPPLIED BY SHIPBUILDERS. SPECIAL CARE TO BE TAKEN TO ARRANGE SPACING OF COUPLING BOLTS. NUTS & CHECKNUTS MAY BE TIGHTENED UP WITHOUT FOULING RUDDER STOCK. KEY TO DRIVE IN TIGHT FROM AFTER END WHEN COUPLING IS BOLTED UP. ENDS OF PINTLES & COUPLING BOLTS TO BE REDUCED IN DIA. BY THREE DEPTH OF THREAD BEYOND THE NUT.

PLAN OF COUPLING.

DETAIL OF PINTLE NUTS.

GAUGES OF DIAMETERS OF RUDDER HEAD TO WHICH STOCK MUST BE TURNED. ALSO PARTICULARS OF KEYWAYS WILL BE SENT LATER.

NOTE. KEYS DRIVEN IN FROM TOP EACH OF THE KEY IN THE TOP ARM WHICH IS GIVEN IN PLAN. BOTTOM THICKNESS OF KEY =  $\frac{1}{4}$ " DIA. OF PINNACLE &  $\frac{1}{16}$ " TAPERED TO  $\frac{1}{4}$ " OF MAINPIECE. DIRECTION OF NUTS 20° DIA. OF MAINPIECE. THE DIA. OF MAINPIECE FOR SIZE OF KEY BEING TAKEN AT EACH ARM.

## NOTES.

THE EXACT POSITION OF QUODGEONS TO BE CAREFULLY TEMPLATED FROM THE STERNFRAME. CORRECT LENGTH OF TOP PINTLE IS TO BE MEASURED WHEN RUDDER IS COMPLETE. A HEAD IS TO BE  $\frac{1}{4}$ " CLEAR OF QUODGEON. MAINPOST TO BE TURNED & ARMS SHOWN & LIEVED ON. CENTRE LINE OF PINTLES TO BE IN PERFECTLY STRAIGHT LINE WITH CENTRE LINE OF STOCK. RUDDER STOCK INCREASED  $\frac{10}{16}$ " IN DIA. & TURNED PARALLEL IN WAY OF ARMS. THE INCREASE TO BE UNIFORM ALL ROUND. MAINPIECE & TO EXTEND ABOVE & BELOW EACH ARM FOR A DISTANCE EQUAL TO THE INCREASE IN DIA. THEN TAPERED OVER A SIMILAR DISTANCE INTO NORMAL DIA. OF MAINPIECE.

DETAIL OF PINTLE AT ARM MARKED B.  
 SCALE 3" = 1 FOOT.

22 MARCH 1918  
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 N.I. 520



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Handwritten signature in blue ink, possibly reading 'J. C. C.' or similar.





1A + 2

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Rudder Frame

The Kinghorn S. Co.,  
Kinghorn.

✓

MANILA  
FEB

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