

MIDSHIP SECTION.

S.S. SPIRAL.

CLASS * I.A.I. NORSKE VERITAS (STEEL).

SCALE: 1/2" = ONE FOOT. ENGLISH MEASURE.

BUILT BY NYLAND VÆRSTED CHRISTIANIA.

EQUIPMENT NO 19182.88

1 BOWER WEIGHT 33 CWT.

1 " " 31 " STOCKLESS.

1 " " 30 " "

1 STEERING ANCHOR WEIGHT WITHOUT STOCK 3 1/2 " "

1 KEDGE " " 4 " "

240 FATHOMS 15 1/2" STUDBAIN CHAINS

90 FATHOMS TOWROPE 11" HEMP 3 1/2" WIRE

90 " WARP 9" HEMP 3" WIRE

90 " " 7" " 3 1/2" WIRE

90 " HAULING LINE.

STRINGER ANGLE 3" x 5" x 3/20"

STRINGER PLATE 36" x 3/20"

BEAM ON EVERY FRAME 5 1/2" x 5" x 3/20" ANGLES
HATCH END BEAMS 9" x 5" x 1/20" BULB ANGLES
1/2 BEAMS 5" x 5" x 7/20" ANGLES

FRAMES 4 1/2" x 3" x 3/20" IN FORECASTLE 4 1/2" x 3" x 7/20" ANGLES
BULB ANGLE FRAMES CARRIED UP TO BRIDGE DECK
AT BOTH ENDS OF BRIDGE

STRINGER ANGLE 4 1/2" x 4 1/2" x 9/20" TO 3/20"
STRINGER PLATE 35" x 19/20" REDUCED TO 26" x 3/20"
DECK PL 9/20"

KNEE PLATES 3 BEAM DEPTHS

BEAM ON EVERY FRAME 7" x 5" x 3/20" BULB ANGLES
HATCH END BEAMS 10" x 3 1/2" x 1/20" BULB ANGLES
1/2 BEAMS 6" x 3" x 3/20" BULB ANGLES

DISTANCE BETWEEN FRAMES 24"
FRAMES 7" x 5" x 1/20" BULB ANGLES FOR 3/5 LENGTH AMIDSHIPS
REDUCED TO 7" x 5" x 10/20" AT ENDS
FRAMES FORWARD OF COLLISION BULKHEAD AND AFT OF AFTER PEAK BULKHEAD
ARE 4 1/2" x 3" x 3/20" ANGLES, WITH REVERSE FRAMES 5" x 3" x 7/20" ANGLES
CARRIED TO UPPER DECK AND TOP OF UPPER STRINGER ALTERNATELY

STRINGERS 11 1/2" x 3/20" PLATE FOR 1/2 LENGTH AMIDSHIPS
REDUCED TO 11 1/2" x 7/20" AT ENDS
STRINGER ANGLE 6" x 4 1/2" x 10/20" FOR 3/5 LENGTH AMIDSHIPS
REDUCED TO 6" x 4 1/2" x 9/20" AT ENDS
LUGS TO SHELL 3 1/2" x 3" x 3/20" FOR 3/5 LENGTH AMIDSHIPS

PANTING STRINGERS 2 ANGLES 5" x 4" x 3/20"

SECTION OF DOUB. BOTTOM IN WAY OF ENGINE SPACE.

SECTION OF DOUB. BOTTOM IN WAY OF HOLDS.

SECTION OF DOUB. BOTTOM IN WAY OF BOILER SPACE.

LENGTH BETWEEN PERKS	245'-0"
BREATH MOULDED	36'-6"
DEPTH MOULDED	19'-0"
DEPTH FROM TOP OF KEEL TO TOP OF BEAM AT CENTRE	19'-9" 19'-8"

1/2 BREATH	18.25	FORECASTLE	27.00
1/2 GIRTH	34.24	BRIDGE	102.00
DEPTH	17.75 19.66	POOP	8.00
TRANSVERSE No	72.01 72.15	DECKHOUSE	30.00
x L	245.00		167.00
LONGITUDINAL No	17670.8 17676.75		

17676.75
17670.8 x 167 = 1506.13
8 x 245

EQUIPMENT NO 19182.88
19196.01

L/D = 12.4
L/B = 6.71

BULKHEADS 9/20" PLATES, STIFFENED BY 4 1/2" x 3" x 3/20" VERTICAL ANGLES
30" APART ON ONE SIDE OF BULKHEAD AND BY 4 1/2" x 3" x 3/20" HORIZONTAL ANGLES
4'-0" APART ON THE OTHER SIDE, EXCEPT ON COLLISION BULKHEAD AND AFTER
PEAK BULKHEAD WHERE THE HORIZONTAL STIFFENERS ARE 7" x 3" x 3/20"
BULB ANGLES, CONNECTED TO SHELL PLATING BY 3/20" BRACKETS
SEMI BOX BEAM AND VERTICAL WEB, FITTED TO RULE

DOUBLE BOTTOM 35" ABOVE KEEL, FROM COLLISION BULKHEAD TO 4 FRAME
SPACES FORWARD OF AFTER PEAK BULKHEAD
CENTRE STRAKE 3/20" FOR 1/2 L. AMIDSHIPS, REDUCED TO 7/20" AT ENDS
TANK TOP PLATES IN ENGINE SPACE 3/20"
TANK TOP PLATES IN BOILER SPACE 10/20"
REMAINDER TANK TOP PLATES 7/20"
LANDINGS AND BUTTS IN CENTRE STRAKE, ALSO BUTTS IN TANK TOP
PLATES IN ENGINE + BOILER SPACES AND TANK SIDES DOUB. RIVETED
TANK ENDS AND DIVISION FLOORS 9-7/20"

KEEL 9 1/2" x 2 3/8"
STEM 8 1/2" x 2 1/2" AT KEEL 9 1/2" x 2 3/8"
PROPELLER POST 8 1/2" x 5"
RUDDER HEAD 6 1/2"
PINTLES 3 1/2" DIAM.

4 R.
TREBLE RIVETED BUTTS OVERLAPPED FROM STRAKE 6 TO 1 INCLUSIVE.
UPPER DECK STRINGER PLATE BUTT LAPS TREBLE RV. FOR 1/2 L. AMIDSHIPS.

10. Aug 11

Midship Section.
S. S. "Spiral."

WEST HARTLEPOOL *abt 18769.*



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