S.S. Cardiff Castle

— S.S. No. 8 —

No. 50148

MON 23 OCT 83
TUE 15 FEB 89

SHIPBUILDING, ENGINEERING & REPAIRS
BUTE DRY DOCK
23 OCT 88
CARDIFF.
GUEST KEEN & NETTLEFOLDS LIMITED

No. 8 Boat

Mioship Section of Steel Screw Steamer

— Class 100 A.1. Lloyds —

On Longitudinal Double Bottom Principle

— Scale ½" = 1 Foot. —

Principal Dimensions

Length as per Rule ... 263.50
Half Length Girth ... 36.15
Half Breadth ... 18.00
Depth ... 21.50

75.65 × 263.5 = 19933

Depth in Length 12.25
Breadth - - 7.31

Quarter Deck

Lower Deck

Angle 5½ × 4 × 8/20 for ½ length, ends 8/20
Plate 38 × 10/20 for ½ length, ends 8/20
Deck plating 6/20
Through beams in way of web frames 8½" × 9/20 bulb plate with knees of additional depth. Webs in way of half beams to be connected by large bracket knees
Angles 4 × 4 × 8/20 for ½ length, ends 6/20
Plate 34 × 8/20 for ½ length aft to 36 × 8/20
Angle 5½ × 4 × 9/20 for ½ length, aft end 8/20
Double angles & face plate where beams are more than eight frames apart
Angles 4 × 4 × 8/20
Bulb 10" × 9/20
Beams of I section
Web frame 15" × 8/20
Angles 3" × 3" × 7/20 or T bars 6" × 3½ × 8/20 ~~7/20~~ at ends
Angles 3" × 3" × 7/20
Plate 15" × 8/20
Angle on face 5½ × 4 × 8/20 to 8/20 at ends
Diamond face plate 8/20
Lug in way of diamond plate
Intercostal side stringer to be connected to web frames by double lugs
Angles 5" × 3" × 7/20 ~~7/20~~ at ends to 8/20 at ends
Plate 15" × 8/20
Angle on face 5½ × 4 × 8/20 to 8/20 at ends
Diamond face plate
Lug in way of diamond plate
double angles on web frames

Butts of Main, Quarter & Lower Deck stringer plates to be overlapped, Main & Quarter deck to be treble riveted for ½ length & double at ends. Butts of shell plating except Bridge and Quarter deck side plating, ~~& bilge strake at lower deck~~. Bend ends to be treble riveted for ½ L. Amidships, and double at ends. Three outside strakes of bottom plating to have overlapped butts & treble riveted. Butt straps for ½ length amidships, to be 2/20" thicker than the plates.

Section 19. Par 15 of the Rule to be complied with, in addition to requirements of Circular. No 552 for steel ship

as regards breadth of plate & thickness of butt straps

Section showing tank frames

Angle 5" × 3" × 7/20
Girder under beams
Steel deck 6/20 or iron 5/16
Plate 36 × 7/20
3½ × 3½ × 7/20
Solid
Bridge Deck
Bracket
Bridge side plating 7/20 increased at break to 8/20
Butts all double riveted
Angle 3½ × 3½ × 8/20 ends
Plate 38 × 8/20 for ½ length of bridge
Angles 5½ × 4 × 8/20 for ½ length, ends 8/20
Bracket plate 8/20
Bulb angle 6" × 3" × 8/20
Hatch beams bulb 9½ × 7/20 with single angles 4" × 3" × 8/20
Angles 5½ × 3" × 7/20
Anchors & Cables
2 Bower Anchors 30 cwt ex. stock
1 " " 25½ " " "
1 Stream " 9½ " " "
1 Kedge " 4¼ " " "
1 " " 2½ " " "
270 Fathoms 1 12/16 stud chain cable
75 " 1/16 steam chain
Hawsers & Warps 90 Fath.s each 11. 9 7½
Angles 8½ × 3½ × 8/20
Plate 26 × 8/20 ends
Angles 5½ × 4 × 8/20 for ½ length, ends 8/20
Plate 34 × 8/20
Angles 3½ × 3½ × 8/20
Plate 36 × 8/20
Gusset
Angle 4 × 4 × 8/20
Bulb 10 × 9/20. Spaced not more than 20.0 apart
Frames 5" × 3½ × 8/20 for ¾ ends. 7/20 above tank top
" on deep floors angles 3" × 3" × 9/20 for ¾ ends 7/20
Spaced 24" inches apart
Reverse frames 3" × 3" × 7/20 to Main & Lower Deck alternately & to Quarter & Lower Beam Stringer alternately
Reverse frames to be double from bilge to bilge in 3/8 Engine & Boiler space
Bulkheads 6/20 lower part. top part 6/20
Stiffening bars 6" × 3" × 10/20. Bulb angle spaced 48" inches apart, vertically & horizontally
Bulkheads connected to deck by double angles, or single angle, frame size
Bracket plate on every third frame 7/20
Angles 6" × 4" × 9/20 ends 3" × 3" × 7/20
Intercostal 9/20 for ½ length
Angle 3" × 3" × 7/20
4" × 4" × 9/20
Floors on every frame 7/20. fore & aft
Tank frames 3" × 3" × 7/20 angles under tank
Bracket 7/20
Plate 36 × 8/20
Angles 3½ × 3½ × 9/20 Bulb 9" × 9/20
Intercostal 6/20
Angle 3" × 3" × 7/20
2½ ceiling
Long Pillars extending to raised Quarter Deck 4" Diam. Length 3½ Diam.
Short Pillars to Main Deck in 'tween decks 3½ Diam.

36" × 15/20 for 3/5ths ends	12/20 for ½ length to 12/20 at ends	11/20 for ½ length to 9/20 at ends	10/20 for ½ length to 8/20 at ends		
A	B	C	D	E	F

Stern post 9" × 3½
Stem 9 × 2½ Head
Rudder head 7" heel 3½

x. Manholes in floors not to be larger than necessary, to render all parts readily accessible.

Main Deck
Sheer strake 40 × 13/20 for ¼ length to 10/20 at ends. Doubling for ½ length 19/20 extending beyond bridge front from top of inside plate to top of gunwale bar. Butts of sheer strake to be treble riveted for ½ length amidships

Lower Deck
11/20 for ½ length to 9/20 at ends
Bracket plate on every third frame 7/20
Angles 6" × 4" × 9/20 ends 3" × 3" × 7/20
Intercostal 9/20 for ½ length
Butts of four strakes at bilge to be thicker & treble riveted

SOCIETY'S REGISTER OF SHIPPING
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Shell Bulkheads

29/10/88

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