

Scale  $\frac{1}{2}$ " = One Foot

*THREE DECK RULE*

# FORCINGS

Stem	11.3
Stem Post	11.7
Rudder Head	9.75 in
De Keel	7.54
De Ruyter	5.4

# NUMERALS

Wall Width	51.60
Wall Breadth	25.35
Depth as per Rule	23.43
	106.38
Less	7.00
Frame W <sup>d</sup>	99.38
Rule Length	370.17
Rating W <sup>d</sup>	36790.06
Squeet W <sup>d</sup>	44297.

## PROPORTIONS

Breadth to Length	7.301
Depth to Length (Upper Deck)	12.578

SCANTLING

**SHELTER DECK:** <sup>and 76</sup> Shelter Deck 7'6", Pole Deck 7'0" sheathed with wood  
Stringer 4" x 8" Joist 2" x 8" Sth = 1/2". Stringer at ends 3" x 7" Joist. Quad angle  
Overlapped Butts for 1/2 Sth, brace at ends. Spar 4" x 4" x 12" 2's.

Beam under 48'-0". Beam Knees 2 1/2 times Depth of Beam.  
Purl angles on alternate frames 8'-3"-0". with Centre Row of Pillars 2 3/8" dia on every Beam  
and Quarter Pillars on alternate Beams throughout 2 3/8" Dia.

Deck plating abreast hatchways  $\frac{9}{16}$  if beams on alternate frames

UPPER DECK:- Steel Deck  $8\frac{1}{2}\%$  increased <sup>to  $10\frac{1}{2}\%$</sup>  in way of Hatchways in lieu of close spaced beams. Stringer  $50 \times 10\frac{1}{2}\%$  to  $45 \times 7\frac{1}{2}\%$  at ends, double overlapped Bulb Fore & Aft. Bar  $4 \times 4 \times 7\frac{1}{2}\%$ .

Beams under 50'. Beams under  $2\frac{1}{2}$  times depth of Beams.  $2\frac{1}{2}$   
Bulkheads alternate frames 10'-6" 12'-0" with Centre Flow of Pillars  $2\frac{1}{2}$  dia on every Beam & Quarter Pillar on  
alternate Beams throughout 3' Dia.

Quarter Pillars on all 4 Beams in way of hatchways & increased  $\frac{1}{2}$  in lieu of this

MIDDLE DECK: - Steel  $\frac{3}{8}$ " in. Water Main & Main Hold,  $\frac{5}{8}$ " on Deep Tank Deck increased, in  $\frac{10}{16}$   $\frac{20}{32}$  way of Hatchways in lieu of ~~steel~~ spaced beams.

Beam under 50". Beam Area 3 times depth of beam.  
Bull angles alternate frames 10-1/2-1/2" with Centre Row of Pillars 1/2" Dia on every Beam & Quarter Pillars  
on alternate Beams throughout. ~~1/2"~~ Dia and increased according to lengths.  
Quarter Pillars on all Beams in way of halfways & increased 1/4" in dia of this  
" Pillars increased according to lengths above scantling (submitted)

**FRAMES.**

2nd Frames 6- $\frac{3}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$  to 10- $\frac{3}{2}$  at ends. Frames on Web 3- $\frac{3}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$  to 9-10.  
Frames not on Web 6- $\frac{3}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$  (Angle Frames on Fore Peak 6- $\frac{3}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$ . Reverse  $\frac{1}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$ -9-10.  
3rd. 2nd Frames 6- $\frac{3}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$ -12-10) Angle Frames 6- $\frac{3}{2}$ - $\frac{3}{2}$ -10. Reverse  $\frac{1}{2}$ - $\frac{3}{2}$ - $\frac{3}{2}$ -20-10 Aff.  
Frame spaced 25" From 9 to 169. 24 in Peaks

Flanged Bulkheads \$7.20 as per plan to be submitted - End Floor \$20  
Single Frame 6.60  $\frac{20}{100}$  on all Bulkheads except Deep Tanks

## TAN

Bank Bolt in Engine Room 4". in Boiler Room  $\frac{1}{2}$ " +  $\frac{1}{2}$ " =  $\frac{3}{4}$ ".  
Do clear of  $\frac{3}{4}$ " +  $\frac{1}{2}$ " space 9" so no intermediate stiffeners. 720 forward of  $\frac{3}{4}$ " 2".  
Engine Brake 6".  $\frac{1}{2}$ " to 6" at ends. Butts double overlapped 3". 30"  $\frac{1}{2}$ " length. 196 in B Room  
(Bank Flange 35"  $\frac{1}{2}$ " + 16") 37"  $\frac{1}{2}$ " 20 Projected. Joints 26" 26"  $\frac{1}{2}$ " placed as per brackets. Brackets 2" wide  
Outside connections to Bank are double for 12 4th 3 1/2" 3 1/2" 8" 2". Boiler Room 4 1/4" 2".  
Centre Section 4 1/4"  $\frac{1}{2}$ " 10" in Boiler Room. Butte overlapped butts. Brackets 2"  
Boiler Room 4 1/4" 2". Bottom Bars 6 1/2" 1 1/2"  $\frac{1}{2}$ " 2". Connection Vertical double for 1 1/2 3 1/2 3 1/2 2" 2".  
Four Binders 2" - 8" in Boiler Room. Reverse under Bank Top 3 1/2" 1 1/2" 2". Vertical connections 2" 1 1/2" 2".  
Reverse Bars double in way of Engine Sealing & Boiler Seat Binders.  
Bank Web in Boiler Room 8". Bank Web in Engine Room 2". Bank Web alternate Frames clear of  
Engine & Boiler Space 2". Brackets Outside of Bank 2" flanged.  
All parts of double bottom in boiler space to be increased  
720 beyond 2nd 57

C.B.  
2.12.81.

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