

6.11.12

DIMENSIONS
 LENGTH B P 120'-0"
 BREADTH MLD 27'-5"
 DEPTH MLD 14'-6"

To be classed to Lloyd's 100 A1.F. & L.M.C.
 Scantling numbers
 Transverse Number $27.41 \times 14.50 = 44.91$
 Longitudinal No. $120 \times (27.41 + 14.50) = 5029.20$
 Equipment Do. $5029.20 \times (20 \times 7 \frac{3}{4}) + (46 \times 7 \frac{3}{4}) + (11 \times 7 \frac{3}{4}) = 5333.70$
 $\frac{D}{B} = 8.27$

Main Dk Stringer 26" x 34" to 30"
 Stringer bar 3" x 3" x 36" to 32"
 Deck plating increased to 32" in way of boiler casing.

Boaming flanged and .50 thick in way of engine & boiler casing

Riveting

Butts of Garboard Strake to be double riveted for 1/2 len, double rivet at ends
 Butts of Sheerstrake and strake below main deck stringer to be double riveted.
 Butts of remaining Shell plates to be double riveted fore & aft.
 Butts of main deck plating double rivet for 3/4 len, single at ends.
 All Shell landings to be double riveted except Bulwark and Forecastle side plating single rivet.
 Edges of Deck plating to be single riveted.
 Butts of Vertical Keelson plate and rider plate to be double rivet all fore & aft.
 Butts of Shade Deck and Forecastle Stringer plate to be double riveted.
 Butts of Cabin sole stringer plate to be double riveted.
 Garboard landing 4 1/2" 7/8" Rivet. Sheerstrake and strake below Landings 4 1/2" 7/8" Rivet.
 Remaining Shell landings 3 1/2" Rivet 7/8"
 Rivets in frames, reversed angles, floors, keelsons, beam angle, deck and hold stringer angles, 7/8" dia. pitch 4 1/2".
 Depth of floor plates to be double riveted.
 Riveting to be as per Tables 19 and 20.

Equipment

2 Bower Anchors 8 1/2 tons Stockless
 1 Spare Anchor 8 1/2 " "
 1 Stream - Do. 2 3/4 " 2x Stock
 1 Kedge - Do. 1 Boat - Do. - Do.
 165 fathoms 1 1/2" Stud Link Cable
 45 - Do. 1 1/2" Stream chain
 75 - Do. 2 1/2" Steel Wire Rope
 90 - Do. 5" Manila Hawser
 90 - Do. 5" Warps.

Double Reverse under Boiler Beams 3 1/2" x 3" x 30".
 Double Reverse Bars under Engine Seat 3 1/2" x 3" x 30".

Section in Boiler Space.
 13'-8 1/2"

MIDSHIP SECTION OF ICE BREAKER N° 163

SCALE 1" IN. = 1 FOOT.

Main Dk Beams 5" x 3" x 34", Half beams 5" x 3" x 30"
 Beams at ends less than 1/2 length beam 4 1/2" x 3" x 30".

Complete Steel Deck .24" thick to be fitted to main Deck.

Round of beam 6 1/2"

Deck Deck 2 1/2" thick

Scantlings

Frames 4" x 3" x 28", Spacing 22" apart, but reduced at fore end, see

Profile plan. Depth of Framing 14"

Reverse Frames 3" x 3" x 28" on every frame and all to extend

to the main Deck. Double Reverse under Engine Seat and

Boiler beams. 3 1/2" x 3" x 30".

Floor plate 15" x 32" for 3/4 len. to 28" at ends. In Engine Space 36"

Floors in Boiler Space 4 1/2".

Keel 7" x 1 1/2", Stem 6" x 1 1/2", Sternum 6" x 3 1/2" and 5 1/2" x 3 1/2".

W. J. Bulkheads, lower half 28", upper half 26", Vertical

Stiffeners 7 1/2" x 3" x 34" spaced 30" apart. (13-14 ft.)

Cabin Sole Deck 2" fine.

Beams on alternate frames 6 1/2" x 3" x 40" Bull Angle.

Garboard Strake 36" x 40" for 1/2 len to 36" at ends, from

garboard to upper turn of bilge 34" for 1/2 len to 30" at ends.

Upper turn of bilge to strake below Sheerstrake 32" for 1/2 len to 28"

Boo plate 34". Sheerstrake and Strake below 36" x 36" all fore & aft.

Main deck stringer plate 26" x 34" for 1/2 len to 30" at ends.

Main " " Angle 3" x 3" x 36" to 32" at ends

Rider plate 8" x 42" for 1/2 len to 34"

Vertical plate 11" x 42" for 1/2 len to 34"

Four Angles 3 1/2" x 3" x 32" fore & aft.

Keelson Angles 3" x 3" x 30"

Initial plate 30", Shell Angle 3" x 3" x 30"

Floors 15" x 32" for 3/4 len to 28"

Frames 4" x 3" x 28"

Garboard 36" x 40" for 1/2 len to 30"

Keel 7" x 1 1/2", Stem 6" x 1 1/2", Post 6" x 3 1/2" and 5 1/2" x 3 1/2"

Rudder as per Table 22.

A. B. C. and D Strakes to be doubled from fore end to

a point about 24 feet abaft Stem.

A. 50" shoe plate to be worked on Stem, See Profile Plan

Face Angle 5 1/2" x 3" x 40"

Forecastle Side plating .24" thick

Deckhouse plating .24" thick

Double 1/2 round 2 1/2" x 1 1/2"

Bulwark plating .24" thick

Under Angles 11" x 3" x 34" Single Riveted Landing

Hardwood fender 10" x 8" Rubbing piece 11" x 7/8"

Sheerstrake 36" x 36" All fore & aft.

Double Riveted

Strake below Sheerstrake 36" x 36" all fore & aft.

Doubling plate as shown 36" to extend all fore & aft

Double riveted strap

32" for 1/2 len to 28"

Double Riveted

32" for 1/2 len to 28"

Double Riveted

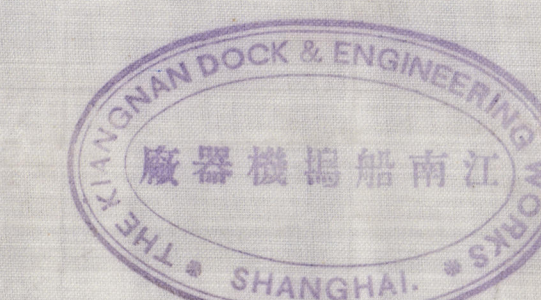
34" for 1/2 len to 30"

Double Riveted

34" for 1/2 len to 30"

DRAWING N° 3331

8 - 10 - 12



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Tung-Sing
Shi 1421

Double Road

34' E 30'

Double Road

34' E 30'

3' x 3' x 3'

Double
Road

DRAWING No 3331

10 - 12



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