

# "H. H. Meier" Twin Screw Steamer

— No 573 —

— Correct —

— Midship Section —

Visitor Vessel to S.S. "Ruthenia"  
Newcastle Report - No. 26278

Equipment No 418.75 x 109.09 = 45681  
 $\frac{239.5}{418.75} \times \frac{1}{8} \times 45681 = \text{Egt. 1.5} = 48947$

3 Bowers 45 cwt ea clock.  
 1 " 35 " " "  
 1 Stream 15 " " "  
 1 Hedge 7 " " "  
 1 Hedge 3 " " "  
 300 Fathoms 2 1/2" stud chain cable.  
 90 " 1 1/2" Stream chain  
 120 " 4 3/4" Steel Wire  
 90 " 4 " " "  
 90 " 3 1/2 " " "

## Principal Dimensions

Length over all ----- 435 - 0  
 Length between Berths ----- 420 - 0  
 Breadth Extreme ----- 48 - 0  
 Depth moulded ----- 32 - 3  
 Depth of Hold ----- 29 - 3

Scale 1/2 Inch = One foot.

Bridge Stringer 45 x 7/16  
 Poop & Forecastle 40 x 7/16  
 Bridge angle 4 x 4 x 7/16  
 Poop & Forecastle angles 3 x 3 x 7/16

Class 100 A.I. Lloyds 3 Decked.

Steel Scantlings in Tons  
 Iron " " Tons

Poep & Bridge Beams 8 1/2 x 5 x 7/16 Bulb Lee spaced 4' 2" apart.  
 Forecastle Beams 9 1/2 x 5 1/2 x 7/16 " " " "

Numeral  
 1/2 Breadth = 23.87  
 Depth = 33.25  
 1/2 Girth = 51.97  
 109.09  
 4.0  
 1st Numeral = 102.09  
 2nd Numeral 102.09 x 418.75 = 42745

Proportions Breadth ----- 8.77  
 Depth to Upper Deck 12.59  
 " " Main " 16.63

Web frames in C & B space  
 18 x 7/16 with double reverse  
 frames on inner edge, to  
 extend to Upper Deck, & be  
 not more than 4 frame  
 spaces apart.

Stringer 63 x 7/16 for 1/2 L. to 49 x 7/16 at ends.  
 Stringer angle 4 x 4 x 7/16 for 1/2 L. to  
 4 x 4 x 7/16 at ends.  
 Gutter angle 3 1/2 x 3 1/2 x 7/16

Sheerstrake 48 x 7/16 for  
 1/2 L. to 7/16 at ends.  
 To be increased 7/16 for 1/4 L.  
 in lieu of Doubling.  
 Doubled for 18 ft. at ends  
 of Bridge.  
 Double butt straps fitted all fore & aft

13/16 for 1/2 L. to 10/16.  
 To be increased 7/16 for 1/4 L.  
 in lieu of sheerstrake doubling.  
 Double butt straps fitted all fore & aft

Poep & Bridge Beams 11 x 6 1/16 x 12/16 to 10 x 5 1/2 x 10/16 spaced 4' 2" apart.  
 Keel special section. Stem 11 1/2 x 3 1/2. Sternpost 11 1/2 x 7 1/2. Rudder 10 x 5.  
 All frames spaced 25' apart.  
 Frames. Outside tank from peak to peak. 6 x 3 1/2 x 3 1/2 x 7/16 for 1/2 L. to 7/16, extending to Upper Deck.  
 Poep, Bridge & Forecastle frames. Frames in peaks & on webs.  
 Angles 6 1/2 x 3 1/2 x 7/16 for 1/2 L. to 7/16.  
 Reverse frames 4 1/2 x 3 1/2 x 7/16, all to Upper Deck, abaft aft peak  
 Rhd. & to Main & Forecastle Decks, alternately.

Web frames in Holds 21 x 7/16 for 1/2 L. to 7/16, with double reverse angles on  
 inner edge, to extend to Main Deck, &  
 be not more than 5 frame spaces apart.

Stringer plate 21 x 7/16 for 1/2 L. to 7/16  
 Angles 4 x 4 x 7/16 for 1/2 L. to 7/16

Stringer plate in C & B space 18 x 7/16  
 3 Yellow Pine.

Stringer plate 21 x 7/16 for 1/2 L. to 7/16  
 Angles 4 1/2 x 3 1/2 x 7/16 for 1/2 L. to 7/16  
 Diamond plate 30 x 24 x 10/16

Stringer plate in C & B space 18 x 7/16  
 Stringer plate 21 x 7/16 for 1/2 L. to 7/16  
 Angles 4 1/2 x 3 1/2 x 7/16 for 1/2 L. to 7/16  
 Diamond plate 30 x 24 x 10/16

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Stringer plate 21 x 7/16 for 1/2 L. to 7/16  
 Angles 4 1/2 x 3 1/2 x 7/16 for 1/2 L. to 7/16  
 Diamond plate 30 x 24 x 10/16

The following to have lap Butts.  
 Inner Bottom including Margin plate.  
 Shell plating below light waterline,  
 except Earboards.  
 Centre Line of Double Bottom.

## Riveting

All Shell Butts & lap Butts, also  
 Butts of Upper & Main Deck stringers  
 to be double riveted throughout, with  
 back row of rivets in the Butts traps  
 spaced 5 to 5 1/2" apart. The  
 Butts traps to be 7/16" thicker than  
 the plates they connect for 1/4 L.  
 amidships, & 7/16" thicker at ends.  
 Double Butts traps to be fitted to  
 sheerstrake & strake below.  
 Butts of Inner Bottom & two side  
 laps each side double riveted  
 throughout. All double riveted  
 lap Butts 3 full rows fore & aft.  
 Double Butts traps of Upper Deck  
 stringer for 1/2 L.

Pulkheads, lower half 7/16, upper 5/16. Stiffeners 6 x 3 1/2 x 7/16  
 angles spaced vertically 2' 6" & horizontally 4' 0" apart.  
 Pulkhead frames 5 x 3 x 10/16 double.  
 Frames in tank 3 1/2 x 3 1/2 x 7/16 for 1/2 L. to 7/16.  
 Reverse frames in tank 3 1/2 x 3 1/2 x 7/16 double, reverse  
 frames from tank side to tank side in C & B space.  
 Sloops 7/16" throughout on every frame.

Pillars 4 1/2" diam on every beam for 1/4 L.  
 Alternate beams at ends.

Note. Intercoastal in C & B space are 7/16  
 Connected to floors by angles 3 1/2 x 3 1/2 x 7/16.

Centre plate 36 x 7/16  
 for 1/2 L. to 7/16 at ends.

Lank Top 7/16 in C & B space.  
 7/16 to 7/16 in Holds.

Lap Butts double riveted throughout.

Ceiling 2 1/2"

48 x 7/16 for 1/2 L. to 7/16  
 Lap Butts double riveted.

48 x 7/16 for 1/2 L. to 7/16  
 Lap Butts double riveted.

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 Lap Butts double riveted.

Shell plating (excepting Earboards) entirely within the range of Double Bottom,  
 to be reduced 7/16 in thickness when 7/16 & above, if not above the Rule widths  
 for Shell plating.

W. & A. ARMSTRONG, MITCHELL & CO LIMITED  
 NEWCASTLE-UPON-TYNE  
 7628 30/11/97

WALKER Lloyds Register  
 Foundation



Manuel Calvo

Messrs. Armstrong  
Melville & Co. No. 573

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