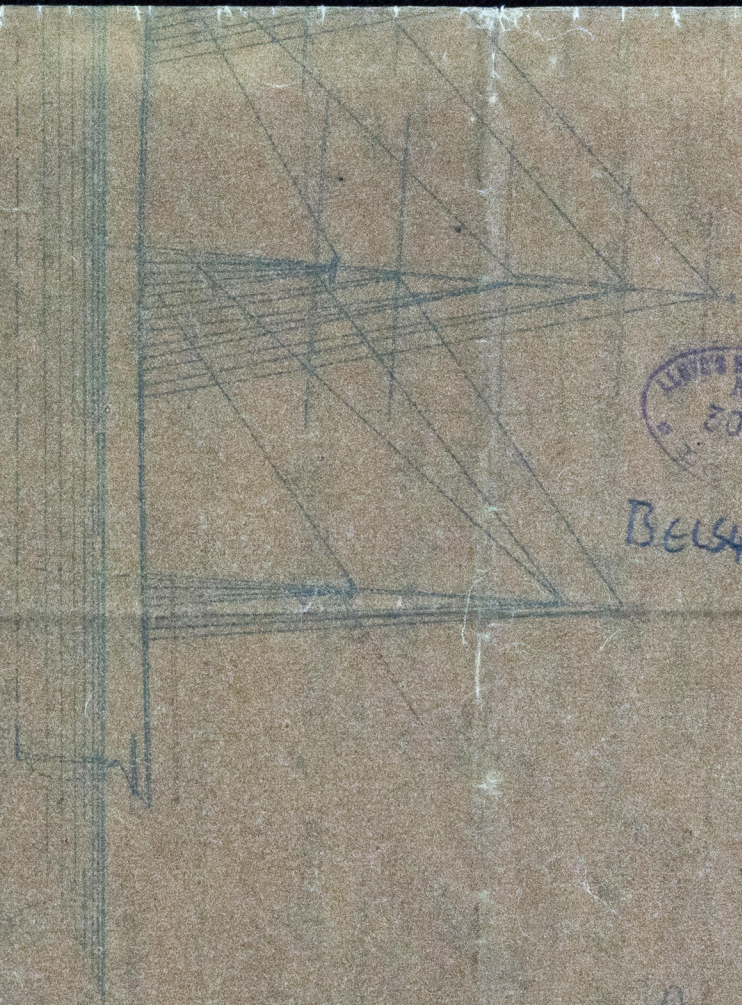


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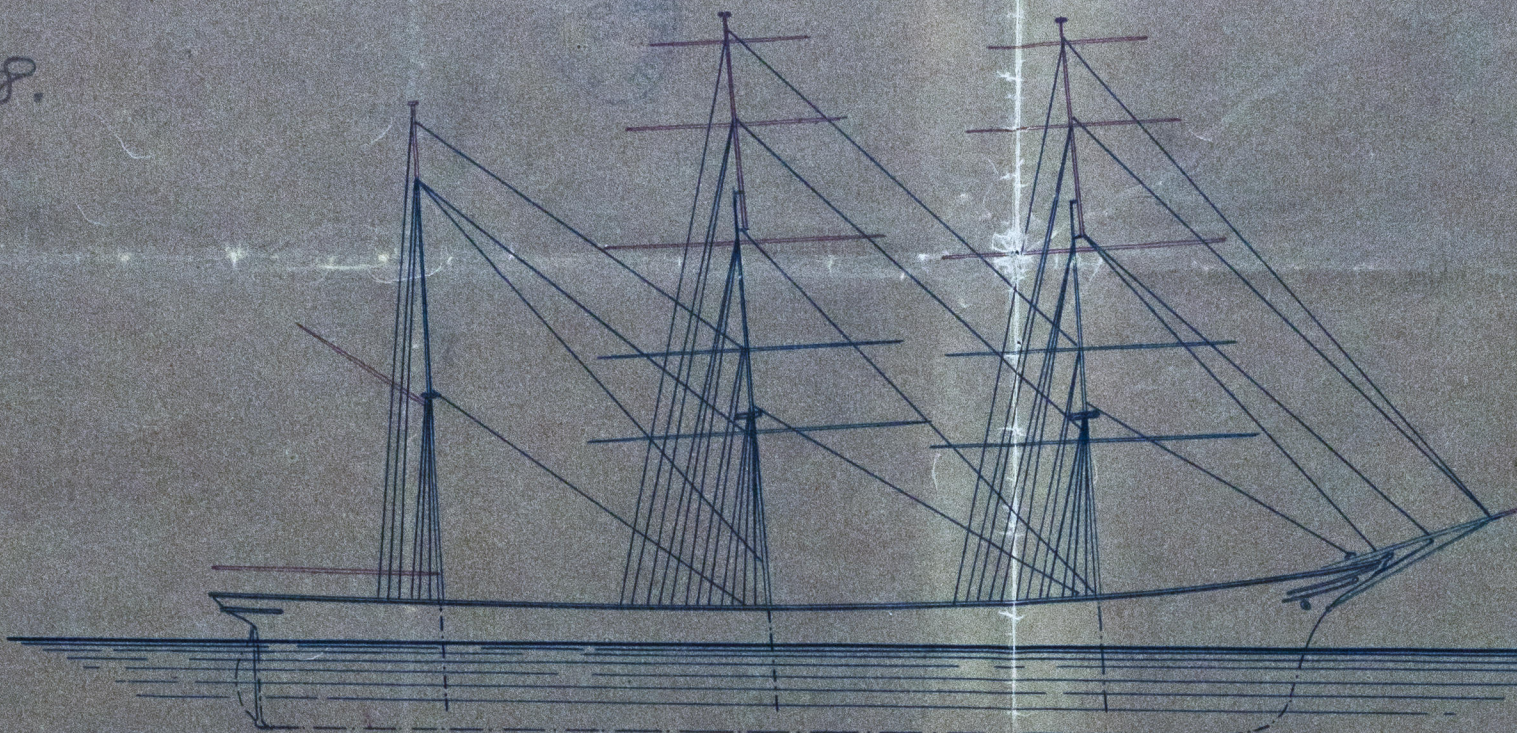
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*Bk. Horizon  
Report  
No 3425*

Iron Barque No. 1.  
Scantlings of Spars in Iron & Steel.

Fore Mast			
Lower Mast & Topmast in one.			
Heel to partners	20'4"		
Partners to Hounds	39'3"		
Hounds to Cap	13'0"		
Lower Mast Cap to Topmast Hounds 24'0"	72'7"		
Hounds to Cap	31'6"	7'6"	
Length extreme	104'1"	31'6"	

Diameter at Heel 19"	Plating $\frac{5}{16}$ "	$\frac{9}{32}$ "
" " Partners 26"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "
" " Hounds 20"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " Lower Mast Cap 11"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " Topmast Cap 14"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "

Main Mast.			
Lower Mast & Topmast in one.			
Heel to partners	19'0"		
Partners to Hounds	42'9"		
Hounds to Cap	13'0"		
Lower Mast Cap to Topmast Hounds 24'0"	74'9"		
Hounds to Cap	31'6"	7'6"	
Length extreme	106'3"	31'6"	

Diameter at Heel 19"	Plating $\frac{5}{16}$ "	$\frac{9}{32}$ "
" " Partners 26"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "
" " Hounds 20"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " Lower Mast Cap 11"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " Topmast Cap 14"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "

Mizzen Mast.			
Lower Mast & Topgallant in one.			
Heel to Partners	19'9"		
Partners to Hounds	44'6"		
Hounds to Cap	9'6"		
Lower Mast Cap to Topgallant mast Cap 25'0"	73'9"		
Length extreme	25'0"	73'9"	

Diameter at heel 15"	Plating $\frac{5}{16}$ "	$\frac{9}{32}$ "
" " Partners 20"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "
" " Hounds 16"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " Cap 13 1/2"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "
" " Topgallant Cap 9"	" $\frac{3}{16}$ "	$\frac{3}{16}$ "

Fore & Main Lower & Topmast (Polacca form) to be formed of three plates in the round. Landings double riveted, Foremast with  $\frac{5}{8}$ " rivets,  $3\frac{3}{4}$ " broad; Mainmast with  $\frac{5}{8}$ " rivets,  $3\frac{3}{4}$ " broad; Rivets spaced 5 diameters apart. Buttstraps  $\frac{1}{16}$ " thicker than plates they connect, & beble riveted above partners, Remainder double riveted. Landings of Topmasts single riveted  $2\frac{1}{4}$ " broad,  $\frac{5}{8}$ " rivets; Otherwise as above. Angle irons to be fitted on fore & main Lower masts at mast head doubling, from below lower yard to above lower topsail yard. Masts to be doubled in way of wedging and at heels.

Mizzen Mast, Lower & Topgallant masts (Polacca form) to be formed of two plates in the round. Landings double riveted with  $\frac{5}{8}$ " rivets,  $3\frac{3}{4}$ " broad, Rivets spaced 5 diameters apart, Buttstraps  $\frac{1}{16}$ " thicker than plates they connect & beble riveted above partners, Remainder double riveted. Landings of topgallant mast single riveted  $2\frac{1}{4}$ " broad,  $\frac{5}{8}$ " rivets; Otherwise as above. Mast to be doubled in way of wedging at heels.

Bowsprit & Gibboom in one piece			
Diameter at Heel 21"	Plating $\frac{5}{16}$ "	$\frac{3}{16}$ "	Length outside of bed to Cap, taken as in an ordinary bowsprit 20'6"
" " Bed 26"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "	Bowsprit to be formed of three plates in the round, Landings $4\frac{1}{2}$ " broad, double riveted with $\frac{3}{4}$ " rivets, Spaced 5 diameters apart.
" " Cap 16 1/2"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "	All buttstraps to be beble riveted.
" " Gibboom Cap 10"	" $\frac{1}{2}$ "	$\frac{3}{16}$ "	Buttstraps $\frac{1}{16}$ " thicker than plates; 3 angles $3\frac{1}{2}$ " x 3" x $\frac{1}{16}$ "

Bowsprit to be built on forecabin deck, *for counter deck in way of bowsprit strengthening & support*

Fore & Main Lower Yards.			
Length Extreme	13'0"		
Diameter at Centre	18"	Plating $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " 2nd Q <sup>rs</sup>	16 1/2"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "
" " Ends	9"	" $\frac{5}{16}$ "	$\frac{3}{16}$ "

Fore & Main Lower Topsail Yards			
Length Extreme	6'9"		
Diameter at Centre	15"	Plating $\frac{1}{16}$ "	$\frac{3}{16}$ "
" " 2nd Q <sup>rs</sup>	13 1/2"	" $\frac{1}{16}$ "	$\frac{3}{16}$ "
" " Ends	7 1/2"	" $\frac{2}{16}$ "	$\frac{3}{16}$ "

All Yards to be formed of 2 plates in the round, Landings  $2\frac{1}{4}$ ", single riveted, *Buttstraps beble riveted* with  $\frac{5}{8}$ " rivets spaced 5 diameters apart, Yards doubled in way of Stings and Guss hoops.

*2/2/88* Standing Rigging as in rules for Sailing Ships from 1000 to 1200 tons under deck.

Standing Rigging—The number of Stands to be as in Rules for Sailing Ships from 1000 to 1200 tons; The size of Standing Rigging to be as in Rules for Ships between 800 & 1000 and 1000 & 1200 — The tonnage of this vessel under deck being just over 1000 tons *Fig. 1008.*

Note: Plate Butts may be overlapped; in my option.