

Yard 2<sup>nd</sup> gr.

1501H Iron

# Particulars of Iron Masts & Yards

## Report No 11, 193 Ship "Carbet Castle"

	Deek		Heel		Hounds		Head		Cheeks				
	Housing	Deek to Hounds	Head	Extreme Length	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	Size of Angle Bars
Fore Mast	23.5	44.4	16.0	84.0	32	$\frac{1}{16}$	23	$\frac{1}{16}$	25	$\frac{1}{16}$	21	$\frac{5}{16}$	$5\frac{1}{2} \times 4 \times \frac{10}{16}$
Main do	22.0	49.0	16.0	84.0	32	$\frac{1}{16}$	23	$\frac{1}{16}$	25	$\frac{1}{16}$	21	$\frac{5}{16}$	$5\frac{1}{2} \times 4 \times \frac{10}{16}$
Mizzen do	22.4	43.5	14.0	80.0	28	$\frac{1}{16}$	20	$\frac{5}{16}$	22	$\frac{5}{16}$	18	$\frac{5}{16}$	$5 \times 3\frac{1}{2} \times \frac{9}{16}$
				Bed	Heel	Cap							
	Inside	Outside	Extreme Length	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate				
Bowsprit	15.0	30.0	45.0	*	$\frac{8}{16}$	32	$\frac{1}{16}$	24	$\frac{1}{16}$				
	* As per Lloyd's												
	Centre		1 <sup>st</sup> Quarter		2 <sup>nd</sup> Quarter		3 <sup>rd</sup> Quarter		Ends				
	Extreme Length	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	dia <sup>2</sup>	Height plate	Length of Arms	
Fore Yard	82.0	20	$\frac{6}{16}$	19 $\frac{1}{2}$	$\frac{5}{16}$	18	$\frac{5}{16}$	15	$\frac{4}{16}$	10	$\frac{3}{16}$	3.0	
Main do	82.0	20	$\frac{6}{16}$	19 $\frac{1}{2}$	$\frac{5}{16}$	18	$\frac{5}{16}$	15	$\frac{4}{16}$	10	$\frac{3}{16}$	3.0	

The mast seams are to be single riveted all the Butts are to be double riveted. Excepting two lengths of plates above or outside the wedging which are to be treble riveted. All butt straps to be outside masts & to be  $\frac{1}{16}$  of an inch thicker than plates they connect. The masts are to be strengthened at wedging deek with a doubling plate 6 ft long —

The heel of mast to be doubled where cut out for centre keelson. The cheeks of masts to be  $\frac{5}{8}$  plate & strengthened on fore edge with  $4 \times 2 \times \frac{3}{8}$  Angle Bar fitted in with wood to prevent chafing. The Bowsprit seams are to be double riveted with 5 inch laps. All the Butts are to be treble riveted with the straps inside and  $\frac{1}{16}$  thicker than plates they connect. To have a doubling plate at Bed 6 ft long also a Vertical plate  $\frac{8}{16}$  thick inside at bed —

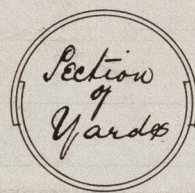
The mast & Bowsprit to be constructed with four Angle bars in each  $5 \times 3 \times \frac{8}{16}$  running  $3\frac{1}{2}$  ft length remainder  $4 \times 3 \times \frac{3}{8}$  with two plates in the round —



The seams of the Yards are to be single riveted  
 the ends of the plates are to be overlapped & treble  
 riveted and are to be constructed without Angle  
 Bars and two plates in the round as shown in  
 sketch below. with a doubling plate in way of  
 slings long enough to go 1 foot each way beyond  
 the slings All iron to be of best quality  
 One top to each mast to be made and fitted with  
 all eyeBolts fairleaders timber &c complete  
 All masts & Yards to pass Lloyds Rules & Surveys  
 given to be considered the minimum in all cases  
 All necessary holes for jacks stays &c to be left



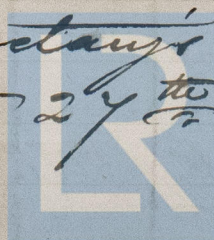
Angle Bars to be  
 kept clear of Seams



- |    |    |     |         |                    |             |
|----|----|-----|---------|--------------------|-------------|
| 1. | 5" | Cap | (Solid) | fitted on Bowsprit | Complete    |
| 1. | 5" | "   | "       | "                  | Mizenmast " |
| 1. | 6" | "   | "       | "                  | Main "      |
| 1. | 6" | "   | "       | "                  | Fore "      |

For Mowbray & Foster  
 & Wardle

Please See Secretaries letter to  
 Surveyors dated 27<sup>th</sup> May 1875



Lloyd's Register  
 Foundation