

2 Steel boilers to be made by Mess<sup>rs</sup> J. Richardson  
 & Sons for vessel h.<sup>o</sup> 93 building by the Tyne  
 Iron Shipbuilding C<sup>o</sup> Lim<sup>d</sup>. & 191 building by Furness Withy & Co

Shell  $\frac{260 \times 1.281 \times 85.1}{177} = 160 \text{ th.}$

Stays  $\frac{5.41 \times 9000}{18.25 \times 16.5} = 161 \text{ th.}$

Screw stays  $\frac{1.484 \times 8000}{8.75 \times 8.43} = 161 \text{ th.}$

End plates (steam space)  $\frac{185 \times 17^2}{18.25^2} = 160 \text{ th.}$

Combustion chambers (sides)  $\frac{135 \times 9.5^2}{8.625^2} = 163 \text{ th.}$

" " (backs)  $\frac{135 \times 10^2}{8.75^2} = 176 \text{ th.}$

Withy & Co 191 x Furnaces (Morison's patent proposed)  $\frac{1000 \times (9-2)}{42.5} = 164 \text{ th.}$

Front tube plate  $\frac{150 \times 15^2}{14.25^2} = 166 \text{ th.}$

Back " "  $\frac{140 \times 11^2}{9.5^2} = 187 \text{ th.}$

Tyne & Co 92 x Furnaces Purves patent

$\frac{1160 \times (7.5-2)}{39.5} = 164 \text{ th.}$

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