

Steel main Boilers N^o 149 for E. C. Furness, Wetzgath & Coy.
 for. Ingers Furness Witzg & Coy Sps N^o 246
 Working press = 180 lbs per sq"

Plate	$\frac{9.5 - 1.375}{9.5} \times 100 = 85.5\%$	
	$\frac{1.0 \times 85 \times 1.75}{168} = 88.3\%$	
Shell.	$\frac{21 \times 85.5 (21 - 2)}{168}$	= 203.2 lbs.
Furnace.	$\frac{1259 \times (9 - 2)}{44.5}$	= 198.0 lbs.
Ends (Top)	$\frac{185 \times 14^2}{15^2}$	= 234.6 lbs.
6 " Stays.	$\frac{10000 \times 5.05}{15^2}$	= 224.4 lbs.
Tube plate.	$\frac{150 \times (3.5 + \frac{10}{2})^2}{13.5^2}$	= 281.6 lbs.
B. & "	$\frac{140 \times 13.5^2}{4.5^2}$	= 453.6 lbs.
Stay tubes	$\frac{4500 \times 1.85}{4.5^2}$	= 246.6 lbs.
L. b. back.	$\frac{135 \times 9.5^2}{4.45^2}$	= 203.0 lbs.
6 " " Stays.	$\frac{4500 \times 2.09}{4.45^2}$	= 261.2 lbs.
6 " Sides	$\frac{135 \times 9.5^2}{4.84^2 + 4.35^2}$	= 213.4 lbs.
6 " " Stays.	$\frac{4500 \times 2.09}{4.84 \times 4.35}$	= 245.0 lbs.
6 " Top	$\frac{135 \times 9.5^2}{4.84^2}$	= 196.5 lbs.
6 " " Stays	$\frac{9000 \times 2.09}{4.84^2}$	= 303.3 lbs.
Girders.	$\frac{9900 \times 8.5^2 \times 1.5}{(29 - 4.84) \times 4.84 \times 29}$	= 223.8 lbs.
Boiler back between b. b.	$\frac{135 \times 13^2}{12.5^2 + 4.45^2}$	= 188.5 lbs.
6 " " Stays.	$\frac{9000 \times 2.43}{10.625 \times 4.75}$	= 265.4 lbs.



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