

Shipbuilder

No.

Engineer *Mac Callahan* No. 78

TENSILE RANGE

Shell  
Stays=  $28\frac{1}{2}$   
 $27$ 

tons

32

tons.

LBS.

LBS.

% Plate.	$\frac{P - d}{P}$	= $\frac{8.75 - 1.187}{8.75}$	= 86.4%	Back Bottom with doubling.	$\frac{c \times \left(t + \frac{t}{2}\right)^2}{\frac{1}{2} (P^2 + P^2)}$	=	
% Rivets.	$\frac{a \times \text{No.} \times 1.75 \times 85}{P \times t}$	= $\frac{1.075 \times 6 \times 1.75 \times 85}{8.75 \times 1.1875}$	= 98.4%	Girders.	$\frac{c \times d \times t}{(L - P) \times \text{dist. apart} \times L}$	=	
Shell.	$\frac{c(t - 2)}{D}$	= $\frac{22.55(19 - 2)86.4}{180}$	= 184	Plain Furnaces.	$\frac{50(300T - L)}{D}$	=	
Front and Back Tops.	$\frac{c \times t^2}{\frac{1}{2} (P^2 + P^2)}$	=		Do. where thickness exceeds 120 times plate.	$\frac{1,075,200 \times T^2}{L \times D}$	=	
Front Tube Plate.	$\frac{c \times t^2}{P^2}$	=		Patent.		=	
Front Tube Plate with doubling.	$\frac{c \times \left(t + \frac{t}{2}\right)^2}{P^2}$	=		Main Stays.	$\frac{c \times a}{\text{surface supported}}$	=	
Back Tube Plate.	$\frac{c \times t^2}{P^2}$	=		1 $\frac{3}{4}$ " Screw Stays.	$\frac{c \times a}{\text{surface supported}}$	=	
Compress. Tube Plate.	$\frac{c(D - d) \times t}{W \times D}$	=		1 $\frac{1}{2}$ " Screw Stays.	$\frac{c \times a}{\text{surface supported}}$	=	
C. Chbr. Plate Sides.	$\frac{c \times t^2}{\frac{1}{2} (P^2 + P^2)}$	=		Stay Tubes.	$\frac{A \times c}{P^2}$	=	
C. Chbr. Plate Top.	$\frac{c \times t^2}{\frac{1}{2} (P^2 + P^2)}$	=				=	
C. Chbr. Plate Backs.	$\frac{c \times t^2}{\frac{1}{2} (P^2 + P^2)}$	=				=	
Back Bottom.	$\frac{c \times t^2}{\frac{1}{2} (P^2 + P^2)}$	=				=	

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