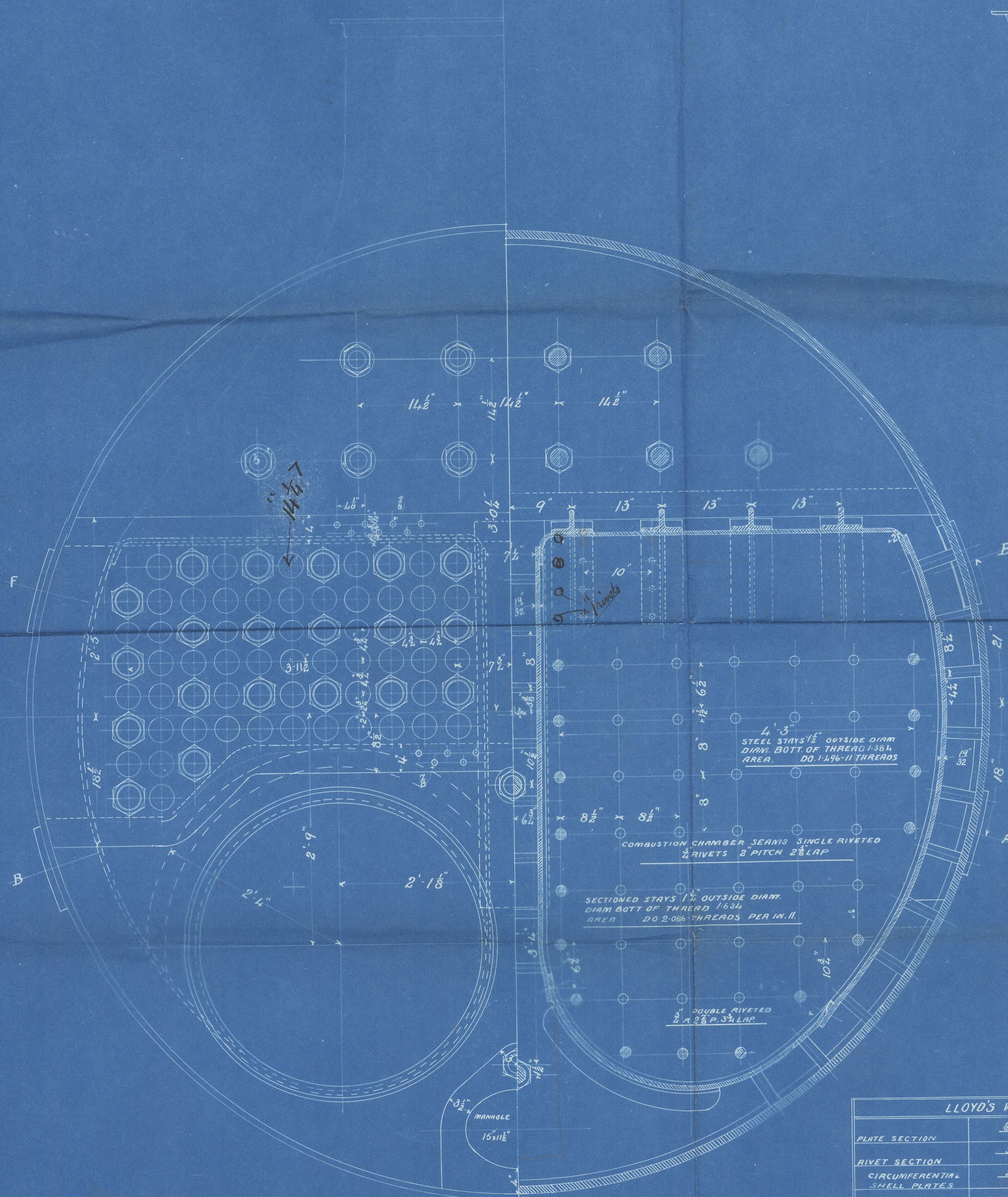


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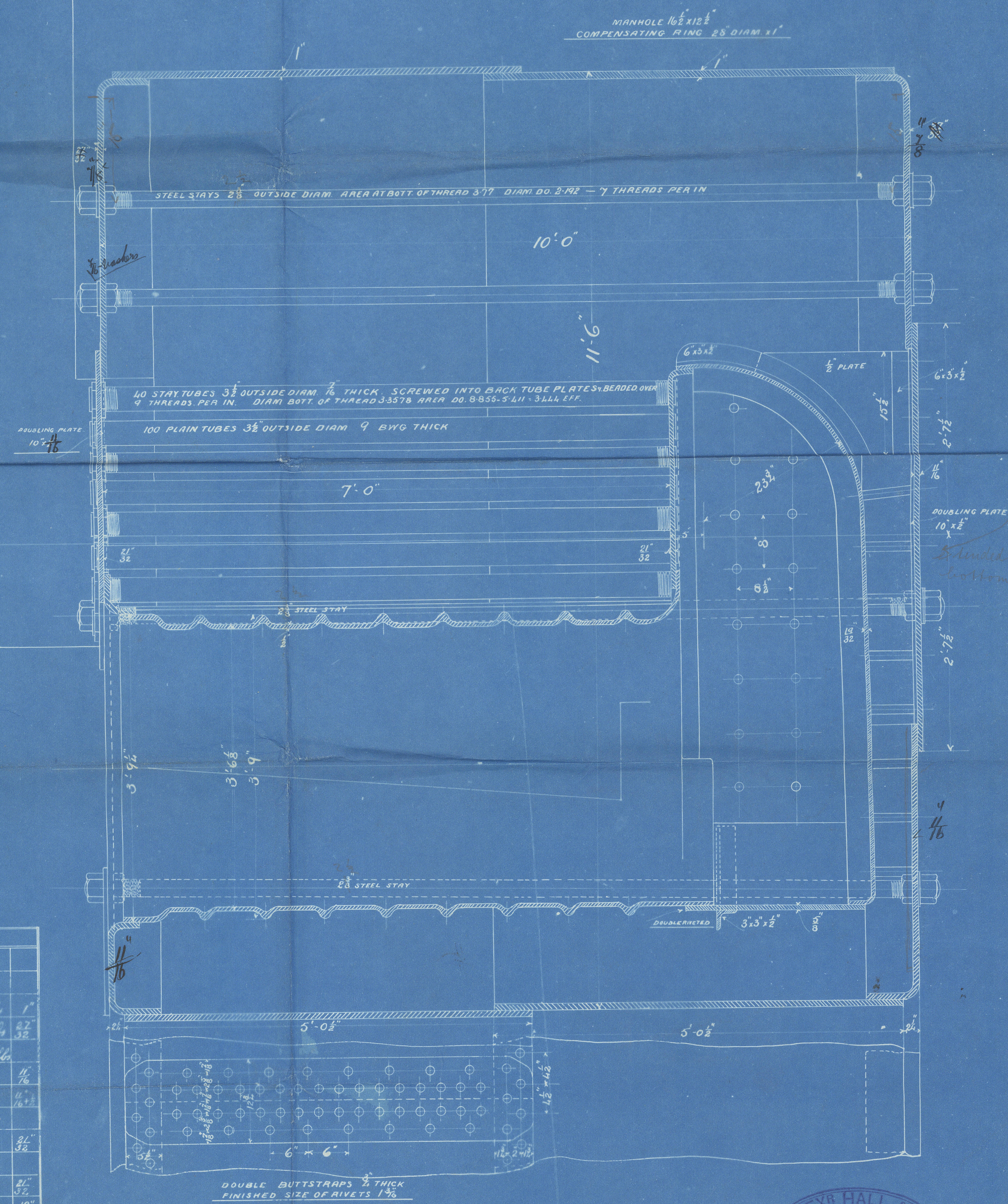
BOILER N° 47

DIAM. ——— 11'6"
 LENGTH ——— 10'0"
 WORKING PRESSURE 160 lbs per sq in
 SCALE 1 in. = 1 FOOT



HEATING SURFACE	
2 FURNACES	157.5
2 COM. CHAMBERS	88.0
2 BACK TUBE PLATES	22.5
140 TUBES	882.0
TOTAL	1150.0 sq ft
GRATE AREA	40.25 sq ft
STEAM SPACE	220.0 cu ft
AREA OF EACH SAFETY VALVE	5.10 sq in

LLOYD'S WORKING PRESSURES		
PLATE SECTION	$\frac{6}{16} \times 1.1875 \times 100 =$	80.2%
RIVET SECTION	$\frac{3 \times 1.75 \times 1.075 \times 85 =}{6 \times 1}$	82.3%
CIRCUMFERENTIAL SHELL PLATES	$\frac{20 \times (18 \times 4) \times 80.2}{138}$	162.7 lb
UPPER END PLATES	$\frac{18.5 \times 13.5 \times 82}{14 \times 5^2}$	160.3 lb
STEAM SPACE STAYS	$\frac{3 \times 77 \times 9000}{11.5}$	161.85 lb
CENTRE BACK PLATE	$\frac{135 \times 11^4}{102}$	163 lb
DO AT CENTRE	$\frac{135 \times (11 \times 8^2)}{23.5}$	166 lb
OUTER SCREWED STAYS	$\frac{2.286 \times 2000}{13.5 \times 3}$	183 lb
FRONT TUBE PLATE	$\frac{160 \times 10^4}{7.5}$	171 lb
STAY TUBES	$\frac{3 \times 140 \times 7500}{9.5 \times 18^2}$	175 lb
BACK TUBE PLATE	$\frac{140 \times 10^4}{9.5}$	171 lb
CONDUCTION CHAMBER	$\frac{135 \times 4^4}{8.5^2}$	168 lb
INNER SCREWED STAYS	$\frac{1.146 \times 8000}{8 \times 8^2}$	176 lb
FURNACES	$\frac{1160 \times (8 \times 2)}{12 \times 12}$	165.2 lb



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