



497750
ALL WEIGHTS FOR ENGINE AND TENDER IN WORKING ORDER

CORRECT

S. L. Hockel

A.M.E.

APPROVED

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M.E.

ITEM	BOILER	HEATING SURFACE	LENGTH	DIA.	GAUGE	DESIGN DATA	GENERAL DATA
1	BOILER TUBES - 164 - SPACING = 3/4"	1778	18'-6 1/2"	2 1/4"	12 MIN.	CALCULATED EVAPORATION LBS/HR	BOILER PRESSURE 200 LBS
2	BOILER FLUES - 30 - SPACING = 1/2"	795	18'-6 1/2"	5 1/2"	10 MIN.	TUBES @ 9.29 LBS	TRACTIVE EFFORT 50600 LBS
3	TOTAL TUBES AND FLUES	2573				FLUES @ 10.39 LBS	FACTOR OF ADHESION 3.6
4	FIREBOX PROPER	170				FIREBOX @ 55 LBS	MAX. CURVATURE 19°
5	COMBUSTION CHAMBER 36 1/4"	59				COMBUSTION CHAMBER @ 55 LBS	ENGINE TRUCK SWING 4"
6	SYPHONS - 2 FIREBOX - 1 COMB. CHAMBER	69				SYPHONS @ 55 LBS	TRAILING TRUCK SWING 4 1/4"
7	TOTAL FIREBOX	298				TOTAL EVAPORATION	COAL CAPACITY 13 TONS
8	TOTAL EVAPORATING HEATING SURFACE	2871				ST. CONSUMPTION (2027 x 20.8)	WATER CAPACITY 7500 GALS.
9	TOTAL SUPERHEATING SURFACE	656				BOILER FACTOR	VALVE GEAR BAKER
10	TUBE SHEETS - FT 5/8" BK 1/2"					FIREBOX H.S. TO GRATE AREA	MAX. CUTOFF 89.6%
11	GRATE AREA 53.2 SQ. FT.					TOTAL EVAP. H.S. TO FIREBOX H.S.	
12	WEIGHT - WATER - 2 1/2 GAUGES.					TOTAL EVAP. H.S. TO SUP'HTG H.S.	
13						ASH PAN AIR OPENING	
14						GRATE AREA TO TUBES AND FLUES	
						FRAME CENTERS 43"	
						FRAME WIDTH 5"	

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N.Y. N.H. & H.R.R. CO. - OFFICE OF MECH. ENGR.

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