

Lloyd's Register of Shipping.

Order: 2424.

Surveyors' Office, DÜSSELDORF.

This is to certify, that *Malte Berg* the undersigned surveyor to this Society tested in the works of *Messrs. Mannesmannröhren-Werke Akt. Heinrich-Bierkes-Strasse of Hückingen* the *annealed Siemens-Martin* Boiler steel *plates* specified hereunder, ordered by *Messrs. Henschelwerke A. G.* of *Tiel* for the ship No. *432* Boiler No. _____ and that the results of tests were as are set forth below.

Batch-number.	Dimensions.			Intended for	Sample number	Charge-number	Tensile tenacity			Elongation in 200 mm. in %.	Bending tests.		Remarks.
	Length.	Breadth.	Thick-ness.				kg. p. sq. mm.	As per rules.	Ord-ered.	By test.	Cold.	Tem-pered	
1	To sketch	29		Shell plate	15	44468	$\frac{44}{55}$	$\frac{44}{53}$	51,5	26,0	good	good	
					15	"	"	"	53,0	23,0	"	"	
1	3120	692	29	Butt strap									
1	3395	642	29	"									
1	590	920	25	Double plate	10	41935	$\frac{44}{55}$	$\frac{44}{53}$	50,4	23,0	"	"	
1	"	"	"	"									
1	To sketch	26		End plate	5	44454	$\frac{41}{44}$	$\frac{41}{44}$	42,3	30,0	"	"	3134
1	"	"	"	"	1	44454	"	"	41,6	30,0	"	"	3138
					1	"	"	"	42,5	29,0	"	"	
1	"	"	24	"	4	"	"	"	41,6	30,0	"	"	3129
1	"	"	"	"	2	"	"	"	41,9	30,0	"	"	3130
					2	"	"	"	43,2	29,0	"	"	
1	To sketch			Double Back pl.	7	"	"	"	43,1	30,0	"	"	3131
1	"	"	"	"									3134 H.B.
1	680	6650	25	Double ch. plate	6	41666	"	"	44,2	29,0	"	"	
1	"	"	"	"									228.34
1	To sketch			Tube plate	8	44454	"	"	42,6	30,0	"	"	3136
1	"	"	"	"									3132
1	"	"	"	Double ch. Back pl.	7	"	"	"	43,1	30,0	"	"	3135
1	680	4200	25	Double ch. plate	12	44396	"	"	46,2	25,0	"	"	
1	To sketch			Tube plate	8	44454	"	"	42,6	30,0	"	"	3133

This Certificate is issued upon the terms of the Rules and Regulations of the Society, which provide that:—

"While the Committee use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Committee nor the Society are under any circumstances whatever to be held responsible for any inaccuracy in any report or certificate issued by the Society or its Surveyors, or in any entry in the Register Book or other publication of the Society, or for any error of judgment, default, or negligence of the Committee or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

N.B.—Material with less than 26 Tons tensile strength may not be used in the construction of boilers for classed vessels, unless specially sanctioned by the Committee.

1 Ton per square inch = 1,574 Kilo per square millimeter. 1 Kilo per square millimeter = 0,635 Tons per square inch.

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Batch-number.	Dimensions. <i>in mm</i>			Intended for	Sample number	Charge-number	Tensile tenacity <i>kg. p. sq. mm</i>			Elongation in 200 mm. <i>in %</i>	Bending tests.		Remarks.
	Length.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered	
1	To sketch			corrug. furnace	13	44501	$\frac{41}{47}$	$\frac{41}{47}$	46,0	25,0	good	good	3126
					13	"	"	"	46,6	26,0	"	"	
1	"	"	"	"									3128
1	"	"	"	"	3	44501	$\frac{41}{47}$	$\frac{41}{47}$	41,1	30,0	"	"	3127
1	520	1185	35	Manhole door	14	44396	"	"	46,3	28,0	"	"	228.34
1	To sketch		30	Comp. ring	11	44343	"	"	42,0	30,0	"	"	3139
1	1820	3920	19	Girders	16	42518	$\frac{44}{55}$	$\frac{44}{50}$	45,8	33,0	"	"	

Düsseldorf 24th August 1934.

M. Pfeiffer

Surveyor to Lloyd's Register



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Foundation