

Lloyd's Register of Shipping.

Surveyors' Office, DÜSSELDORF.

to certify, that Julius Arost the undersigned surveyor to this Society tested in
 works of Hess. Mannesmannröhren-Werke Akt. Schutz-Kommit. of Heisingen
gunwaled Siemens-Martin Boiler steel plates specified hereunder, ordered
Hess. Blohm & Voß of Hamburg
 the ship No. 488 Boiler No. 4378/79 and that the results of tests were as are set forth below.

Dimensions. in mm			Intended for	Sample number	Charge- number	Tensile tenacity kg. p. sq. mm			Elongation in 200 mm. in %	Bending tests		Remarks. <u>Lloyd's.</u>
Length.	Breadth.	Thick- ness.				As per rules.	Ord- ered.	By test.		Cold.	Tem- pered.	
245	3180	23	Shell plate	31	8491	44/55	44/50	47.3	25	good	good	
"	"	"	"	31	"	"	"	49.8	25	"	"	
"	"	"	"	29	"	"	"	47.6	28	"	"	
"	"	"	"	29	"	"	"	50.2	24	"	"	
30	3180	20	Butt shape	34	"	"	"	48.7	26	"	"	
"	3010	23	"	33	7119	"	"	47.2	27	"	"	
220	820	24	Double plates	35	7675	41/47	41/47	44.5	31	"	"	
2020	1100	20	"	24	8397	"	"	43.0	29	"	"	
To sketch		23	End plate	13	8195	"	"	43.9	32	"	"	
"	"	"	"	12	"	"	"	43.0	28	"	"	
"	"	23	"	19	"	"	"	43.2	30	"	"	
"	"	"	"	21	8191	"	"	42.3	29	"	"	
400	670	17	Comb. sh. pl.	22	8397	"	"	42.6	33	"	"	
800	680	22	"	27	"	"	"	43.2	34	"	"	
675	2265	17	Comb. sh. back pl.	20	8195	"	"	42.7	29	"	"	
750	295	15	Girders	28	8995	"	"	43.6	26	"	"	
695	2275	23	Tribe plates	11	7826	"	"	42.0	31	"	"	
"	"	"	"	11	"	"	"	43.7	27	"	"	
To sketch		17	Boiling furnace	4	8035	"	"	44.1	30	"	"	178 } 5.9. 25.2.30.
"	"	"	"	4	"	"	"	45.7	32	"	"	179 }

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 Surveyors, or other Officers or Agents of the Society."

—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.

Dimensions. <i>in mm</i>			Intended for	sample number	Charge-number	Tensile tenacity <i>kg. p. sq. mm</i>			Elongation in 200 mm. in %.	Bending tests.		Remarks.
h.	Breadth.	Thick-ness.				As per rules.	Ord-ered.	By test.		Cold.	Tem-pered	
sketch	17		Coring furnace	3	8035	41/47	41/47	43.0	28	good	good	180
				3				45.7	28	"	"	181
1000	35		Handhole door	25	8397	"	"	42.1	33	"	"	

Pinseldorf 1st March 1930.

Jul. Busch
Surveyor to Lloyd's Register



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Foundation

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