

COPY.

Lloyd's Register of Shipping.

Hamburg Report Nr. 22443

Port of Disseldorf

9th October, 1936.

Order: Rd.Schb.1547/21105.

This is to Certify that

Leo Schein

the undersigned Surveyor to this Society did at the request of

Messrs. Mannesmannröhren-Werke of Renscheid test and inspect on the 6th October 1936 at their works the undermentioned seamless Siemens-Martin Steel tubes, ordered by Messrs. Howaldtswerke A.G. of Kiel.

Specification.

No. of tubes	Outs. diam.	Thickn. of shell
200 mtr.	25mm	3,5mm
200 "	30mm	3,75mm
150 "	38mm	4,5mm
150 "	38mm	3,75mm
200 "	42,5mm	4,75mm
200 "	44,5mm	4mm
100 "	54,5mm	6,25mm
150 "	54mm	4mm
300 "	60mm	5mm
200 "	70mm	4,25mm
100 "	76mm	4,5mm
100 "	89mm	4,75mm

Results of tests.

Sample No.	Tensile str. in kg.p.sq.mm	Elongation in 200mm
1	39,8	34,0%
2	38,8	33,0%
3	43,6	28,5%
4	42,3	25,0%
5	41,6	23,5%
6	41,8	24,0%
7	41,4	27,5%
8	42,3	23,5%
9	41,1	30,0%
10	41,7	29,0%

L. Sch.

2nd sheet.

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

"While the Committees of the Society use their best endeavours to ensure that the functions of the Society are properly executed, it is to be understood that neither the Society nor any Member of any of its Committees is 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 any of its Committees or any Member thereof, or the Surveyors, or other Officers or Agents of the Society."

2nd sheet.

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Düsseldorf, 9th October 1936.

Sample No.	Tensile str. in kg.p.sq.mm	Elongation in 200mm
11	41,8	33,0%
12	40,6	33,0%
13	43,9	31,0%
14	42,5	34,5%
15	43,0	35,0%
18	40,2	35,5%
19	41,6	35,0%
20	41,7	23,0%
21	41,6	35,0%
23	43,8	26,0%
24	42,5	22,0%
25	39,9	26,5%
26	40,2	27,5%
27	42,4	21,5%
28	43,8	20,5%

Expanding, flanging and flattening tests good.

The tubes have been inspected externally and so far as possible internally.

5% of the tubes have been tested by hydraulic pressure to 80 atm. without signs of defects.

Identification marks: LLOYDS

L. Rein
SURVEYOR TO LLOYD'S REGISTER

Fees: RM 60,-
Expenses: RM 12,-
Total: RM 72,-

Düsseldorf account No.: 9546.



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Lloyd's Register

Foundation
(2/2) W21-0131