

Test Report 19/657/0135-2



Tensile test on sheet piling clutch bar LPB100-9A

SteelWall ISH GmbH
Tassilostr. 21
82166 Gräfelfing

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This report includes - 2 - pages and - 2 - attachments.

Test report no.: 19/657/0135-2

Title: Tensile tests on sheet piling clutch bars LPB100-9A

Client: SteelWall ISH GmbH
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1. Preliminary remark

1.1 Client's information

Test object: 1 pair of elements of clutch bar type „LPB100-9A“
Specimen receipt: 06.08.2019
Dimensions: see annex part 19/657/0135-2-2/2
Material: S355

1.2 Target of examination

Determination of the deformation and failure behaviour of the clutch bar with tensile test.

1.3 Specimen designation

<i>Specimen</i>	<i>Sample</i>	<i>Comment</i>
P4	Z1	LPB100-9A


1.4 Examinations to be performed

- component tensile test with picture documentation before / after

2. Results component tensile test

For testing there had to be extensions welded to the approx. 50 mm wide clutch bars. According to the appliance a steel plate was welded with two flanked welds to the clutch bar element, the extension for the fixing in the tensile test machine was mounted on the opposing side.

The arrangement and the appearance after testing can be seen in the annex part 19/657/0135-2-1/2. The test results including specification in common units can be found in the annex part 19/657/0135-2-2/2.


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jr

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Schedule of annexes

2 Test records

	Name of record	Page(s)
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19/657/0135-2-2/2	Component tensile test	1

Record N°: 19/657/0135-2-1/2

Figure part to 2.: Overview images



Figure 1.1:

P4Z1 (LPB100-9A)
test setup



Figure 1.2:

P4Z1 (LPB100-9A)
after testing, failure through
deformation

Record N°: 19/657/0135-2-2/2

Component tensile test

 Testing machine: Schenck-Trebel UPM 400
 Gauge: Sliding caliper N°: FH309496

<i>Sample no.</i>	<i>Maximum force F_m</i>		<i>Length of the clutch bar</i>		<i>Length-related maximum resilience</i>		
	<i>[kN]</i>	<i>[lb]</i>	<i>[mm]</i>	<i>[in]</i>	<i>[kN/m]</i>	<i>[t/m]</i>	<i>[kip/in]</i>
P4Z1 (LPB100-9A)	44,52	10.008,48	48,80	1,92	912,30	93,03	5,21

Operator / date: sign. J. Rudolph / 12. 8. 2019