

Test Report 19/657/0135-1



Tensile tests on sheet piling clutch bars WOM-S/WOF-S und MF64

SteelWall ISH GmbH
Tassilostr. 21
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This report includes - 2 - pages and - 2 - attachments.

Test report no.: 19/657/0135-1

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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 „WOM-S/WOF-S“
2 pairs of elements of clutch bar type „MF64“

Specimen receipt: 06.08.2019

Dimensions: see annex part 19/657/0135-1-2/2

Material: S355, S430

1.2 Target of examination

Determination of the deformation and failure behaviour of the clutch bars with tensile tests.

1.3 Specimen designation

Specimen	Sample	Comment
P1	Z1	WOM-S/WOF-S, S355
P2	Z1	MF64, S355
P3	Z1	MF64, S430

1.4 Examinations to be performed

- component tensile tests with picture documentation before / after

2. Results component tensile tests

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 19/657/0135-1-1/2. The test results including specification in common units can be found in the annex part 19/657/0135-1-2/2.



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Schedule of annexes

2 Test records

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19/657/0135-1-2/2	Component tensile tests	1

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Figure part to 2.: Overview images



Figure 1.1:

P1Z1 (WOM-S/WOF-S)
test setup



Figure 1.2:

P1Z1 (WOM-S/WOF-S)
after testing, failure through
deformation

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

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Figure part to 2.: Overview images



Figure 1.3:

P2Z1 (MF64, S355)
test setup



Figure 1.4:

P2Z1 (MF64, S355)
after testing, failure through
deformation

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Figure part to 2.: Overview images



Figure 1.5:

P3Z1 (MF64, S430)
test setup



Figure 1.6:

P3Z1 (MF64, S430)
after testing, failure through
deformation

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Component tensile tests

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

Sample no.	Maximum force F_m		Length of the clutch bar		Length-related maximum resilience		
	[kN]	[lb]	[mm]	[in]	[kN/m]	[t/m]	[kip/in]
P1Z1 (WOM-S/WOF-S)	111,97	25.171,83	50,5	1,99	2.217,23	226,09	12,66
P2Z1 (MF64, S355)	168,92	37.974,69	49,4	1,94	3.419,43	348,69	19,53
P3Z1 (MF64, S430)	169,98	38.212,99	48,8	1,92	3.483,20	355,19	19,89

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