

Report Number: 16030371

Order Number : 10031
Date of Issue: 18/05/2016
Test Date : 12/05/2016



Scaffolding Testing Report

Report for the testing of Pressed Steel Sleeve Couplers

Couplers Marked:

EN74-1-B-L PS04 08/15 RS

This report consists of the report and appendix A

Report Number: 16030371

This report details the results of tests carried out on Pressed Steel Sleeve Couplers used for connecting steel tubes of 48.3mm outside diameter and of at least 3.2mm nominal wall thickness at a minimum in the construction of working scaffolds and falsework required for the construction, maintenance, repair and demolition of buildings and structures.

Description and Marks on couplings

Pressed Steel Sleeve Couplers

Marks : EN74-1-B-L PS04 08/15 RS

Basis of Tests

The couplings have been tested in accordance with the relevant sections and requirements of EN74-1 :2005 .

Information supplied by the customer

Manufactured by: Delta Services
Shape: As per drawings shown at the end of this report
Dimensions: As per drawings shown at the end of this report

RESULTS

Design

The design of the coupling complied with the requirements of the relevant items in clause 6.2 of the standard.

Dimensions and Material Characteristics

The measured dimensions, of the couplings, were all within the tolerances as specified by the manufacturer. (Drawings are shown at the end of this report)

Marking

The markings satisfy the requirements laid out in EN74-1 :2005

Mass

10 samples were weighed giving an average mass of 1.000kg With a range between 0.960kg and 1.004kg

Results of all tests performed are detailed on the following pages.

All requirements stated are minimum values.

Conclusion

The couplers passed all the sections of EN74-1 required for this type of coupler.

A handwritten signature in black ink, appearing to be a stylized 'R' or similar character.

Report Number: 16030371

Slipping Force Tests, tested in accordance with Clause 7.2.1.

Tested using 4.0mm tube (S1)

Test Number	$1 \leq \Delta_2 \leq 2\text{mm}$ (kN)
1	18
2	18
3	18
4	18
5	18
6	18
7	18
8	18
9	18
10	18

$F_{S5\%}$	18.00
------------	--------------

Tested using 4.0mm tube (A)

Test Number	$1 \leq \Delta_2 \leq 2\text{mm}$ (kN)
1	18
2	18
3	18
4	18
5	18
$F_{S5\%}$	18.00

The $F_{S5\%}$ figures must be equal to or greater than the requirements stated below.

Requirements from EN 74-1 table 8:

$1\text{mm} \leq \Delta_2 \leq 2\text{mm} = 6.0\text{kN}$ Minimum	Class A
$1\text{mm} \leq \Delta_2 \leq 2\text{mm} = 9.0\text{kN}$ Minimum	Class B

From the results, the prototype is Accepted to Class B for slipping force

Bending Moment Tests, tested in accordance with Clause 7.4.3.

Tested using 4.0mm tube (S3)

Test Number	Δ_4 (kN)	Δ_4 (kNm)
1	38.43	2.40
2	40.08	2.51
3	38.08	2.38
4	36.24	2.27
5	39.56	2.47

$F_{S5\%}$	1.75
------------	-------------

Requirements from EN 74-1 table 8:

$\Delta_4 = 1.4$ kNm Minimum	Class B
------------------------------	---------

From the results, the prototype is Accepted to Class B for bending moment

Load-displacement curves are shown in Appendix A as charts 1 to 5



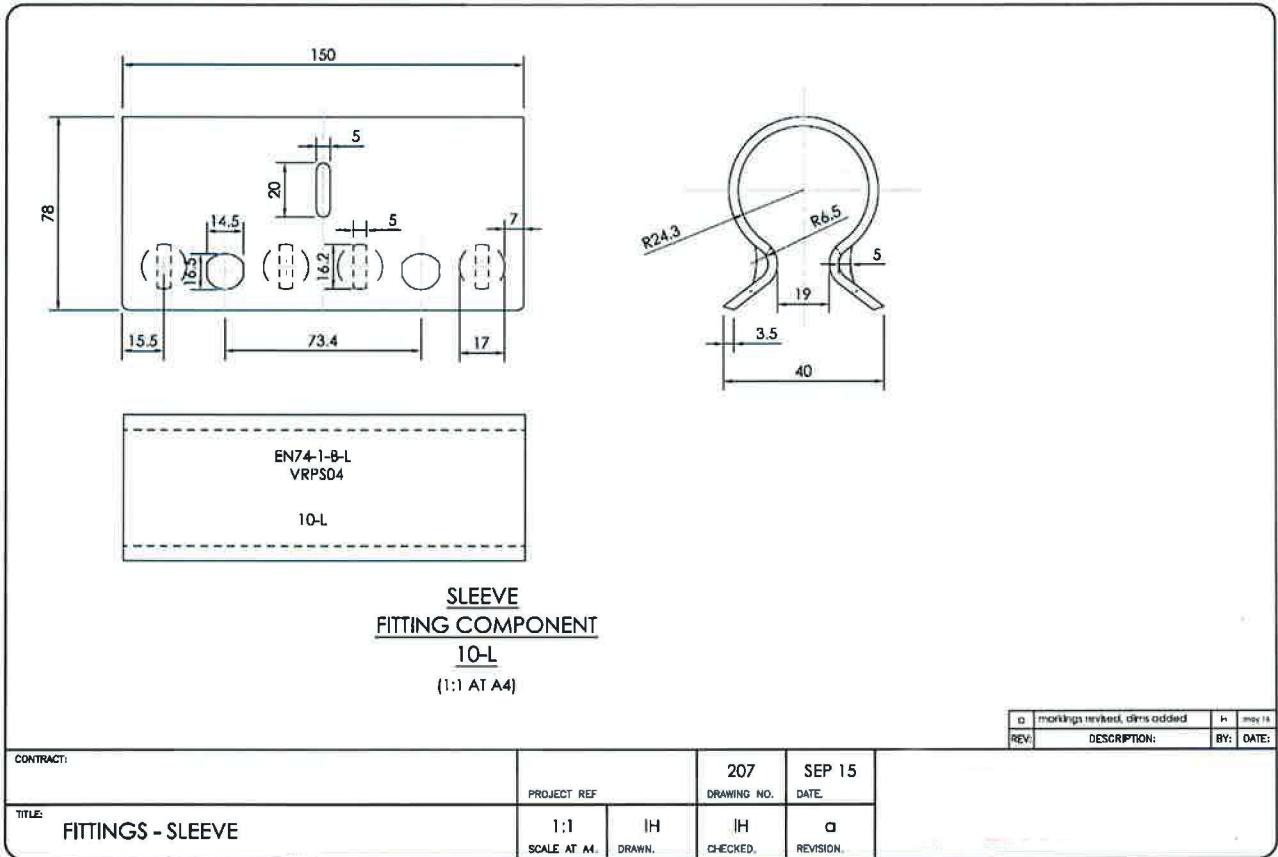
Report Number: 16030371

Photograph of coupler under test



Report Number: 16030371

Drawings

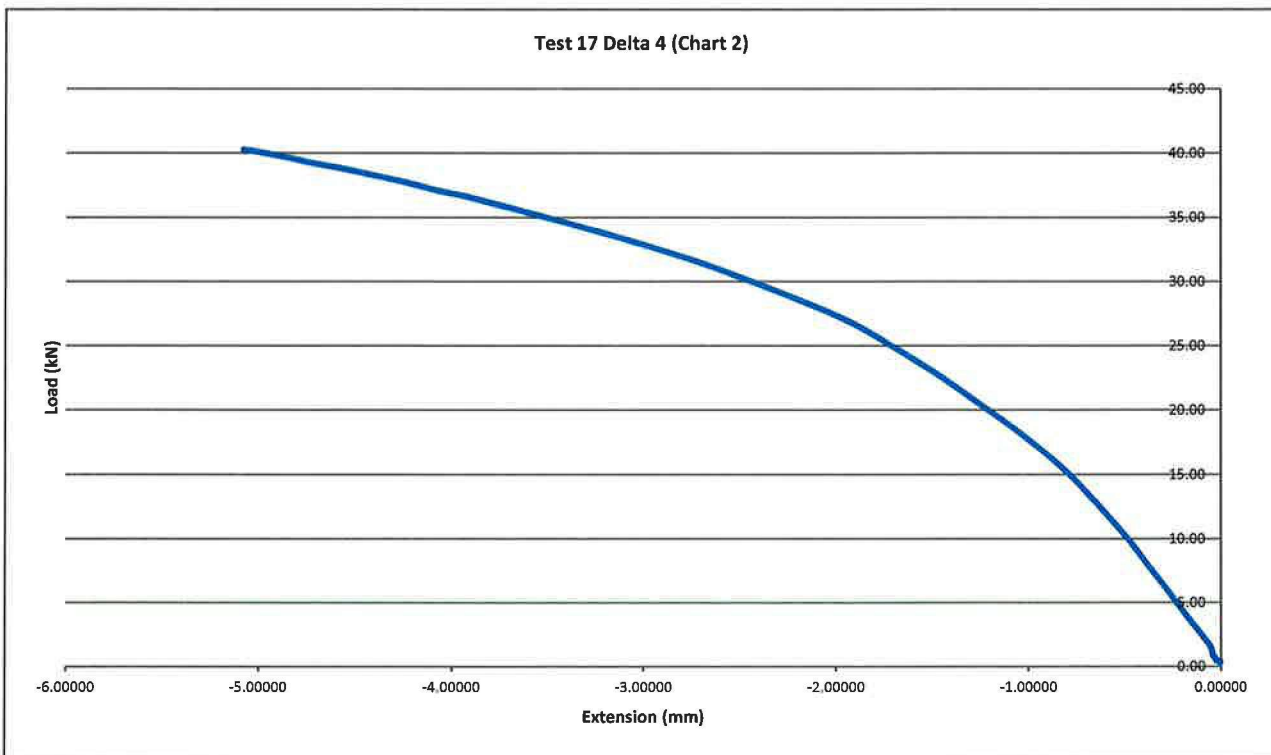
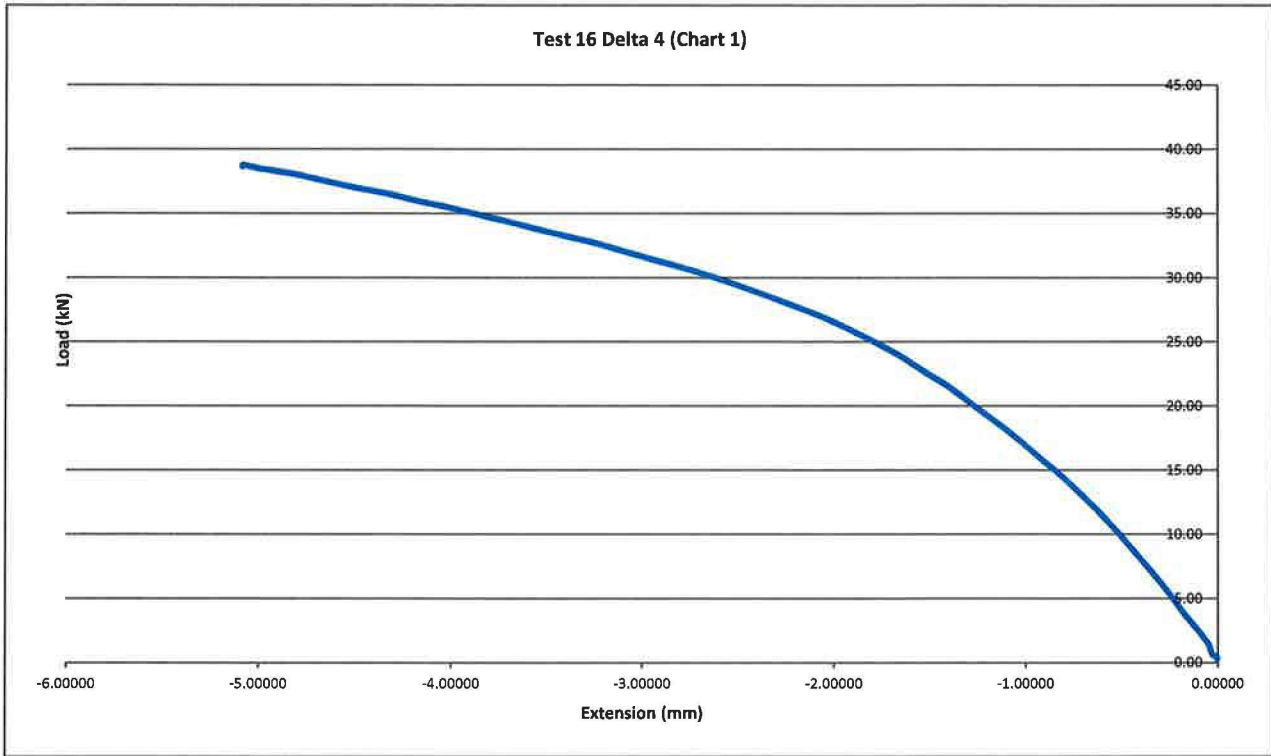


End of Report

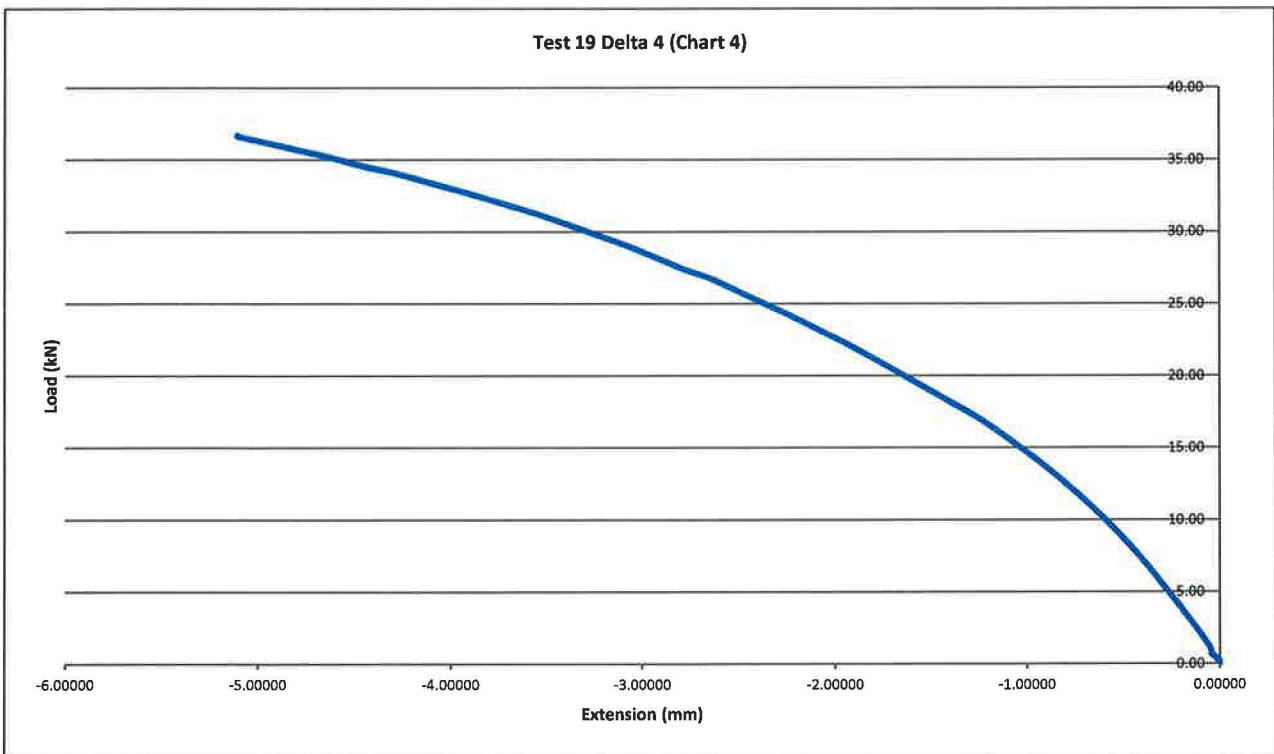
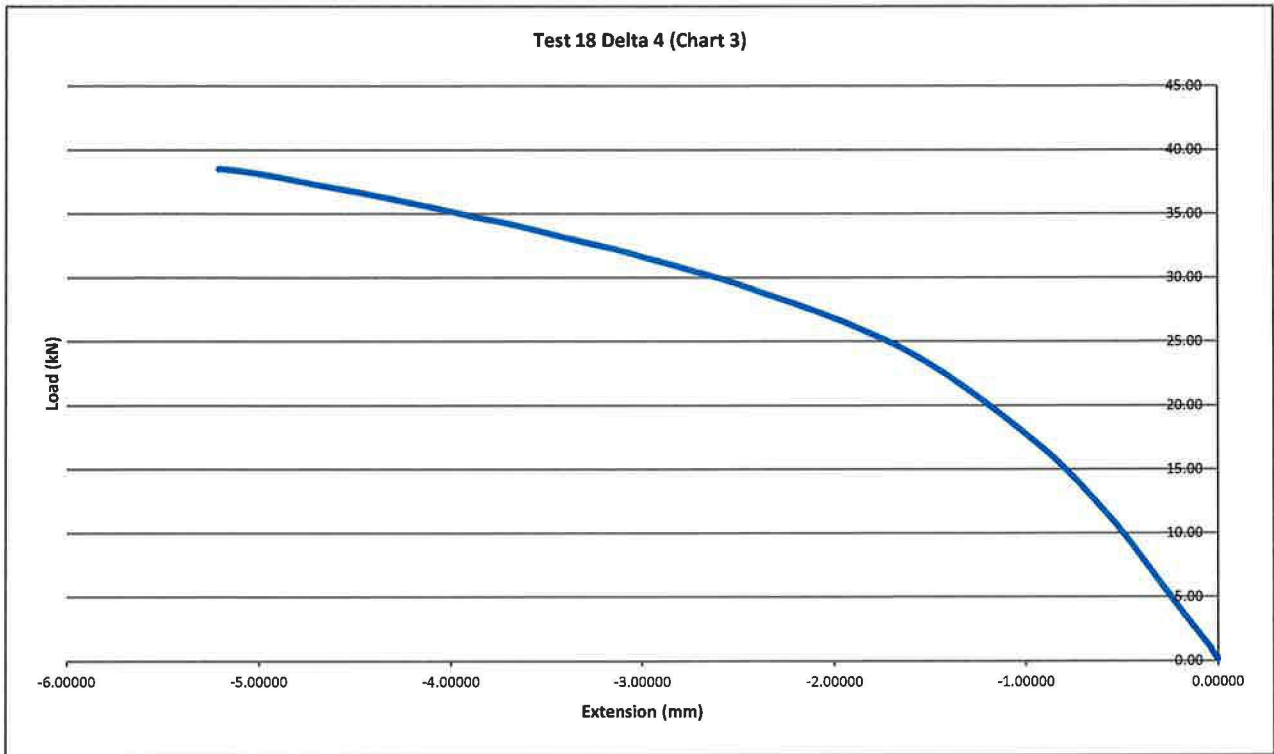


Test Report 16030371

Appendix A



Test Report 16030371



Test Report 16030371

