

TEST REPORT

SHEFFIELD TESTING LABORATORIES Ltd.

SERIAL NUMBER
1110166

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4. Tensile Tests

Test Number	Displacement Δ @ 6kN	Test Number	Displacement Δ @ 6kN
1	0.01mm	14	0.01 mm
2	0.02 mm	15	0.03 mm
3	0.01 mm	16	0.01 mm
4	0.01 mm	17	0.02 mm
5	0.01 mm	18	0.01 mm
6	0.02 mm	19	0.01 mm
7	0.01 mm	20	0.02 mm
8	0.01 mm	21	0.01 mm
9	0.03 mm	22	0.01 mm
10	0.01 mm	23	0.01 mm
11	0.01 mm	24	0.02 mm
12	0.02 mm	25	0.03 mm
13	0.02 mm		

Requirements from BS 1139 - EN 74 table 1, column 6 for friction type class B sleeve couplers :-

"When a load of 6 kN is applied the displacement Δ shall not exceed 2mm."

From the results, the prototype is accepted for Class B for tensile tests.

Five load-displacement curves are detailed in Appendix 1.

5. Bending load capacity

Results of tests :-

Test Number	Displacement Δ_4 @ 19kN	Test Number	Displacement Δ_4 @ 19kN
1	3.00	6	2.92
2	2.87	7	2.49
3	2.57	8	2.36
4	2.57	9	2.29
5	2.74	10	2.79

Requirements from BS 1139 - EN 74 table 1, column 6 for friction type Class B sleeve couplers :-
"When a load of 19 kN is applied the displacement Δ_4 shall not exceed 5mm"

From the results, the prototype is accepted for Class B for bending load capacity.

NB. The bolts showed a slight bend after the torque had been applied, prior to testing.

Five load-displacement curves are detailed in Appendix 1