

# CERTIFICATE OF TEST



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DATE OF ISSUE  
**17 October 1994**

SERIAL NO.

**87981**

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MATERIALS TESTING  
DEPARTMENT

This report details the results of tests carried out on prototype friction type 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.

Submitted for test by :- Presco Scaffolding Limited  
Green Lane  
Walsall  
West Midlands  
WS2 8JH

## Description and Marks on couplings.

A zinc plated and chromate passivated pressed steel sleeve coupler, manufactured to drawing part No 1006 (Appendix 3).

Marks on couplers :-

Design Council Award 1977  
PRESCO UK  
PATENTED

The couplings submitted for test were selected at random from a batch of at least 500.

## Basis of Tests.

The couplings have been tested in accordance with the requirements of BS 1139 : Section 2.1 : 1991 - EN 74 : 1988.

For the following :- Behaviour under load  
Bending load capacity.

## RESULTS

1. The design of the coupling complied with the requirements of the relevant items in clause 5 of the standard.
2. The measured dimensions of the couplings satisfied the requirements of the standard.
3. The average measured mass of each couplings was :- 1.13 kg

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Certified ..... 

Authorised Signatory

**D R TAME TECHNICAL DIRECTOR**

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## 4. Testing of behaviour under load of sleeve couplers

Tightening torque on screw - 60 N.m

Results of tests :-

Test Number	Displacement $\Delta$ in mm when subjected to an axial force of 6 kN.
1	0.42
2	0.78
3	1.20
4	0.55
5	0.78
6	0.20
7	0.74
8	0.30
9	0.78
10	0.47
11	1.02
12	1.36
13	1.09
14	0.49
15	0.72
16	0.48
17	0.61
18	0.42
19	0.72
20	0.20
21	0.74
22	0.84
23	0.31
24	1.50
25	0.55

The prototype is rejected if one measured displacement value is greater than  $\Delta=2.0\text{mm}$ , or if the load of 6.0 kN is not reached in any test.

***From the results, the prototype is accepted for Class A and B for behaviour under load***

Five load-displacement curves are detailed in Appendix 1

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## 5. Determination of the bending load capacity for class B sleeve couplers

Results of tests: -

Test Number	Displacement $\Delta_4$ in mm when subjected to a bending force of 19 kN.
1	2.03
2	1.93
3	1.93
4	1.93
5	1.96
6	1.96
7	2.18
8	1.78
9	3.68
10	2.01

The prototype is rejected if one measured displacement value is greater than  $\Delta_4 = 5.0\text{mm}$ , or if the load of 19.0 kN is not reached in any test.

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

Five load-displacement curves are detailed in Appendix 2.