

## Test Report

### PPE against fall from a height EN 362 : 2004 Connectors

**Report no:** 2.17.04.01

**Client:** INSPEC Certification Services  
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Salford,  
Greater Manchester,  
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United Kingdom

**On behalf of:** JINHUA JECH TOOLS CO., LTD

**Client orders and dates received:** TA17/0012 (18 March 2017)  
TA17/0012A (30 March 2017)

**Model:** JE523003

**Dates of tests:** 21 March 2017 to 8 April 2017

**Signed:**



Steven Sum, Laboratory Manager

**Issued:** 18 April 2017

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**Conditions**

This report may be reproduced and distributed to your clients, provided that it is reproduced and distributed in full.

Specimens will be disposed of four weeks from the date of this report, unless otherwise instructed.

Opinions, comments and interpretations expressed in this report are shown in italics.

Copies of INSPEC interpretations referenced in this report are available upon request.

Tests marked  are not included in our ANAB Scope of Accreditation.

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**Summary of assessment\***

Clause	Requirement	Assessment (See Key)
4.1	General	Ltd
4.2	Static strength	Pass
4.3	Gate function	N/Ap
4.4	Gate resistance	Pass
4.5	Corrosion resistance	Pass
4.6	Marking and information	
6	Marking	
7	Information	

① *INSPEC Interpretation applies*

**Key**

	Shading shows the clauses requested. Any other clauses were not requested.
Pass	Requirement satisfied.
Ltd	Testing requested was insufficient completely to verify compliance with the clause. Refer to the "Result details" section for more information.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
NAs	Assessment not carried out.
N/Ap	Requirement not applicable.
NT	Requested but not tested due to early termination following failure.

\* Assessment relates only to those specimens which were tested and are the subject of this report.

**Submission details**

Product	Quantity	Date received	INSPEC specimen no. (job 2E037+)
Connector, model JE523003	08	17 March 2017	01 to 08

**Procedures**

The specimens detailed within the submissions above were used for the tests covered by this report.

Testing was performed in accordance with EN 362:2004 unless otherwise specified below. Reference should be made to the standard when reading this report.

Unless stated otherwise, specimens were tested in the condition as received by INSPEC.

Testing was performed at INSPEC's laboratory in Kunshan, China

**Result details****4.1 General**

Specimen 2E03701 was assessed.

4.1.1 The specimen had no sharp edges or burrs that may cause injury to the user, or that may cut, abrade or otherwise damage webbing or rope. Pass

4.1.2 Effects of the material of the specimen on human skin were not assessed. Manufacturer to declare. NAs

4.1.3 The connector incorporated a gate. The gate-locking feature was automatic (self-locking). Pass

4.1.4 The connector incorporated an automatic (self-locking) gate.

The gate locked automatically when the gate closed. Pass

At least two different, deliberate, manual actions were required to open the gate. Pass

4.1.5 The specimen did not incorporate a manual-locking gate. Therefore this clause is not applicable. Nap

4.1.6 The specimen was not a screwlink (Class Q) connector. Therefore this clause is not applicable. NAp

4.1.7 The gate opening specified by the manufacturer was 60 mm. A calibrated rod of 60 mm could pass through the gate opening and allowed correct closure and locking of the gate. There was free movement of the rod within the connector. Pass

**4.2 Static strength**

The major axis minimum static strength claimed by the manufacturer was 25 kN.

The connector incorporated an automatic (self-locking) gate. Therefore testing along the major axis was performed with the gate closed and locked only.

When tested along the major axis, with the gate closed and locked, specimen 2E03702 withstood the 25 kN force for 3 minutes without the gate opening. Pass

The specimen was claimed by the manufacturer as a class A (anchor connector), therefore testing was not performed on the minor axis. NAp

**4.3 Gate function**

Testing is not required for class A connector. NAp

#### 4.4 Gate resistance

Following the gate face test, performed with the gate closed and locked, specimen 2E03704 withstood the 1 kN force for 90 s and the gate subsequently functioned correctly. Pass

Following the gate face test, performed with the gate closed and locked, specimen 2E03705 withstood the 1 kN force for 60s. Gate separation was zero. The maximum permitted was 1 mm. Pass

Following the gate side test, performed with the gate closed and locked, specimen 2E03706 withstood the 1.5 kN force for 60 s without any partial fracture and the gate-locking feature subsequently functioned correctly. Pass

#### 4.5 Corrosion resistance

Specimen 2E03708 was assessed.

Following the salt spray test, the gate functioned correctly. Pass

There was no evidence of corrosion of the base metal of the specimen. Pass

**Estimates of the uncertainty of measurement**

Clause	Test	Uncertainty
4.1	General	*
4.2	Static strength	±0.4%
4.3	Gate function	±0.4%
4.4	Gate resistance	Force ±0.5%
		Gap measurement ±0.1%
4.5	Corrosion resistance	*
4.6	Marking and information	-
6	Marking	-
7	Information	-

\* The acceptance criterion for this test is a straightforward "Pass/Fail", rather than a numerical value. Consequently, as there is no value to be reported, uncertainty has not been reported either.

Values expressed as a percentage (%) are relative.

It should be noted that the above values have not been taken into account when making assessment to the pass/fail criteria.

## ANNEX

This Annex comprises one section.

1. Photographs of the product tested. (1 page)



JINHUA JECH TOOLS CO., LTD –  
Connector, model JE523003



INSPEC Testing Services' specimen 2E03701

21 March 2017