

Test Report

PPE against fall from a height EN 362 : 2004 Connectors

Report no: 2.17.03.09

Client: INSPEC Certification Services
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Salford,
Greater Manchester,
M6 6AJ,
United Kingdom

On behalf of: Jinhua Jech Tools Co., Ltd.

Client order: TA17/0006

Order received: 21 February 2017

Model: JE523001

Dates of tests: 22 February 2017 to 13 March 2017

Signed:



Steven Sum, Laboratory Manager

Issued: 13 March 2017

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Conditions

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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 ①	Ltd
4.2	Static strength ①	Pass
4.3	Gate function	NAp
4.4	Gate resistance ①	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.
NAp	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 2E018+)
Scaffold hook (Chromed plated), model JE523001	08	14 February 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 2E01801 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. | N/A |
| 4.1.6 | The specimen was not a screwlink (Class Q) connector. Therefore this clause is not applicable. | N/A |
| 4.1.7 | The gate opening specified by the manufacturer was 50 mm. A calibrated rod of 50 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 2E01802 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. N/A

4.3 Gate function

Testing is not required for class A connector. N/A

4.4 Gate resistance

Following the gate face test, performed with the gate closed and locked, specimen 2E01804 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 2E01805 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 2E01806 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 2E01808 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	*1
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 –
Scaffold hook (Chromed plated),
model JE523001**

