

## Test Report

### PPE against fall from a height EN 355: 2002 Energy absorbers

**Report no:** 2.19.09.03

**Client:** Jinhua Jech Tools Co., Ltd.  
No.1448 Tongxi Road, Linjiang Industrial Park  
Wucheng District  
Jinhua City  
Zhejiang  
China

**Manufacturer:** Jinhua Jech Tools Co., Ltd.

**Client order:** T/0656

**Order received:** 6 September 2019

**Model:** FP74

**Dates of tests:** 6 September 2019 to 11 September 2019

**Signed:**



Steven Sum, Laboratory Manager

**Issued:** 14 September 2019

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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.

This report has been provided in accordance with our standard Terms of Business, which can be viewed at, and printed from:

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**Summary of assessment\***

Clause	Requirement	Assessment (See Key)
4.1	Design & ergonomics	
4.2	Materials and construction	
4.3	Static preloading	
4.4	Dynamic performance (140 kg drop mass) <input checked="" type="checkbox"/>	Pass
4.5	Static strength	
4.6	Marking and information	
6	Marking	
7	Information	
8	Packaging	

**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. (2G147+)
Energy absorbing lanyard, model FP74	02	5 September 2019	01 to 02

**Procedures**

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

Testing was performed in accordance with EN 355:2002 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.

The Client requested testing to clause 4.4 only, no other clauses were assessed.

The Client requested testing to be performed using the 140 kg drop mass instead of the 100 kg drop mass mentioned in the standards.

**Result details****4.4 Dynamic performance (140 kg drop mass) ☒**

Specimen 2G14701 was assessed.

The total length  $L_t$  of the specimen was 1860 mm.

The maximum braking force developed by the specimen during the drop test was 4.7 kN. This was less than the 6 kN maximum permitted. See the Annex 1 for the force/time curve.

Pass

The arrest distance H measured during the drop test was 4920 mm.

Pass

The requirement is that H shall be less than the value  $(2L_t + 1,750)$  mm, where  $L_t$  is 1860 mm mentioned above. Thus, this value is 5470 mm. The requirement was therefore satisfied.

**Estimates of the uncertainty of measurement**

Clause	Test	Uncertainty
4.1	Design & ergonomics	-
4.2	Materials and construction	See relevant reports
		Length $\pm 5.8\text{mm}$
4.3	Static preloading	$\pm 0.4\%$
4.4	Dynamic performance	Maximum breaking force
		Maximum arrest distance
4.5	Static strength	*
4.6	Marking and information	-
6	Marking	-
7	Information	-
8	Packaging	-

\* 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

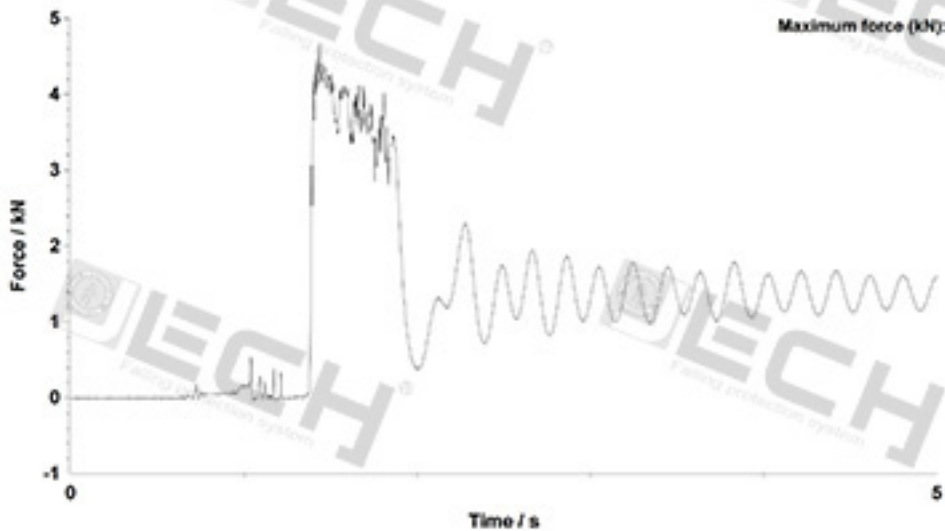
This Annex comprises two sections.

1. Plot of arrest force versus time. (1 page)
2. Photograph of the product tested. (1 page)

END OF REPORT

INSPEC Technical Services

Technician:	Lu
Standard:	EN 355 Energy absorbing lanyard
Sample / File name:	2G14701
Drop item:	Drop weight, 140kg
Orientation/Attachment Point:	Centre eyebolt
Time and Date of Test:	15:24 06/09/19



Results do not achieve full ANAB status until a formal test report has been issued.



**Jinhua Jech Tools Co., Ltd. –  
Energy absorbing lanyard, model FP74**



**INSPEC Testing Services' specimen 2G14701**

**6 September 2019**