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Test Report

Personal Fall Arrest Equipment ANSI/ASSE Z359.3-2019 Lanyards and Positioning Lanyards

Report no: 2.20.09.02

Client: Jinhua Jech Tools Co., Ltd.

No.1448 Tongxi Road, Linjiang Industrial Park

Wucheng District Jinhua City Zhejiang 321025

China

Manufacturer: Jinhua Jech Tools Co., Ltd.

Client order: T/0756

Order received: 18 June 2020

Model: JE311016

Signed:

Dates of tests: 10 July 2020 to 7 September 2020

Issued: 10 September 2020

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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 Accreditation.

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Summary of assessment *

Clause	Requirement	Assessment (See Key)					
3.2	Component and Element Requirement	Ltd					
3.2.3.1	Hardware elements (ANSI/ASSP Z359	9.12)	NAs				
3.3	Lanyard and Positioning Lanyard Des	Ltd					
3.4.1	Fixed length lanyards						
3.4.2	Adjustable lanuarde	Slippage					
3.4.2	Adjustable lanyards	Breaking strength					
3.4.3	Lanyards and adjustable lanyards	Dynamic strength					
3.5.1	Positioning lanyards	anyards Breaking strength					
3.5.2	Adjustable positioning lanyards	Slippage test	Pass				
3.3.2	Adjustable positioning lanyards	Breaking strength					
3.5.3	Positioning lanyards and adjustable positioning lanyards	Dynamic strength	Pass				
3.5.4	Positioning lanyards	Breaking strength (abraded)	NAp				
3.5.5	Adjustable positioning lanyard	Breaking strength (abraded)	Pass				
5.1 / 5.2	Marking Requirements	37	Ltd				
5.3	Instruction Requirements						

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Key

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	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.



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Submission details

Product	Quantity	Date received	INSPEC specimen no. (2H141+)
Positioning lanyard, adjustable, model JE311016	15	18 June 2020	01 to 15

Procedures

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

Testing was performed in accordance with ANSI Z359.3-2019 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.



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Result details

3	Design Requirements
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3.2 Component and Element Requirements

	The state of the s		
-	Specimen 2H14101 was assessed.	715	
3.2.1	The materials and characteristics of synthetic fibres used in the construction of the positioning lanyard were not assessed. Manufacturer to certify.	NAs	
3.2.2	The specimen was made of webbing.	NAp	
3.2.3.1	Testing of all hardware elements was not requested.	NAs	
3.2.3.2	The positioning lanyard was protected from concentrated wear when in contact with metal connectors. Wear pieces were used.	Pass	
	3.2.2 3.2.3.1	3.2.1 The materials and characteristics of synthetic fibres used in the construction of the positioning lanyard were not assessed. Manufacturer to certify. 3.2.2 The specimen was made of webbing. 3.2.3.1 Testing of all hardware elements was not requested. 3.2.3.2 The positioning lanyard was protected from concentrated wear when in contact	3.2.1 The materials and characteristics of synthetic fibres used in the construction of the positioning lanyard were not assessed. Manufacturer to certify. 3.2.2 The specimen was made of webbing. NAp 3.2.3.1 Testing of all hardware elements was not requested. NAs 3.2.3.2 The positioning lanyard was protected from concentrated wear when in contact Pass

Lanyard and Positioning Lanyard Design Requirements. 3.3

Specimen 2H14101 was assessed.

0.0.	The mediates maximum engines are positioning to type that over the	
3.3.2	The specimen was designed in such a manner that the adjustment stopped when the adjuster was released.	Pass

The measured maximum length of the positioning lanvard was 5.94 ft

3.3.3 T	The end terminations satisfied 3.3.3.2 as appropriate. (See below).	Ltd
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3.3.3.1	This clause is not applicable to the product tested.	
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3.3.3.2	Lock stitching	and	back	stitching	used	on	all	stitched	terminations	were	not	NAs
	assessed, Man	ufacti	urer to	certify.						-	lir .	

The	materials	and	characteristics	of	threads	used	were	not	assessed.
	facturer to			-					

Threads	used	for	sewing	the	positioning	lanyard	were	black	colour.	This	Pass
contraste	ed with	the '	vellow co	olour	of the webbi	na.					

There were no formed eye terminations.	NAp

V / L	
The ends of sewn materials were hot-cut so as to prevent unravelling.	Pass

3.3.3.3	Swaged terminations - not applicable to the product tested.	NAp

Chain fittings - not applicable to the product tested.



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3.5	Positioning Lanyard and Adjustable Positioning Lanyard Performance Requir	ements
	Specimens 2H14101, 2H14102 and 2H14103 were assessed.	
3.5.1	The clause was not applicable to the specimens tested.	NAp
3.5.2	When tested in accordance with 4.2.3, the specimens maintained their adjusted length when loaded to 1,000 pounds force for a period of 1 minute. There were no slippages of the adjusters.	
	When tested in accordance with 4.2.3, the specimens withstood the tensile test o 5,000 pounds applied for 1 minute without breaking.	f Pass
3.5.3	Specimens 2H14104, 2H14105 and 2H14106 were assessed.	
	When tested in accordance with 4.2.4, the specimens withstood the drop tests. The test weight was retained for a period of 1 minute.	Pass
3.5.4	The clause was not applicable to the specimens tested.	NAp
3.5.5	Specimens 2H14107 to 2H14109 were assessed.	

After abrasion conditioning and tested in accordance with 4.2.3, the specimens withstood the tensile tests of 3,600 pounds applied for 1 minute without breaking.



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5.1 Marking Requirements

5.1.1	Markings shall be in English.
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5.1.2 The legibility and attachment of required markings shall endure for the life of the component, subsystem or system being marked, was not assessed.

When pressure sensitive labels are used, they shall comply with the applicable provisions of UL 969, Marking and Labeling Systems, was not assessed. Manufacturer to certify.

Marking labels were provided electronically and used for assessment.

5.1.3 Except for connectors, lanyards and positioning lanyards shall be marked to identify:

a) year of manufacturer; [2020]

c) part number;

b) manufacturer's identification; [JECH]

d) model designation (JE311016):

e) Serial number;

f) standard number; [ANSI Z359.3]

g) capacity: [130-310 lbs]

h) purpose; [positioning lanyard]

i) the length; [4-6 ft]

j) the material of construction; [polyester]

k) the need to make only compatible connections

I) warning to follow the manufacturer's instructions included with the equipment at

time of shipment from the manufacturer.

5.2 Specific Marking Requirements

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In addition to the marking requirements of 5.1, lanyards and adjustable positioning shall be marked according to the requirements of this section.

5.2.1 Adjustable positioning lanyards shall be marked with:

"DO NOT USE FOR FALL ARREST"

Pass



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Pass

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NAS

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Pass

Pass

NAp

Pass

Pass

Pass

Pass

Pass

Pass

F 633

Pass

Pass

Pass

Pass

5.3 Instruction Requirements

The manufacturer shall provide user instructions for lanyard and positioning lanyards according to the requirements of this section.

User Instructions were provided electronically and used for assessment.

~ / # :		Oser instructions were provided electronically and used for assessment.	1111
	5.3.1	Instructions were provided in English.	Pass
	5.3.2	Instructions shall be affixed to the lanyard and positioning lanyards before the product is shipped from the manufacturer.	NAs
	5.3.3	Instructions shall contain the following information:	
	a)	a statement that the manufacturer's instructions shall be provided, and available to authorized persons	Pass
	b)	manufacturer's name, address, website address and telephone number	Pass
	c)	part number	NAp
	d)	model designation [JE311016]	Pass
	e)	intended use and purpose of the product	Pass
	1) 00	proper method of use and limitation on use of the product	Pass
	9)	illustrations showing locations of markings on the product	Pass
	h)	reproduction of printed information on all markings	Pass
	i)	inspection procedures required to assure the product is in serviceable condition and operating correctly	Pass
	j)	anchorage requirements as set forth in ANSI/ASSP Z359.2	Pass
	k)	criteria for removing product from service if it fails inspection	Pass
	D	procedures for cleaning, maintenance and storage	Pass
	m)	capacity	Pass
20	n)	space for recording inspection dates	Pass
	0)	who is allowed or how repairs or alterations are made to the product	Pass
	p)	require that the authorized person be provided a rescue plan and appropriate training before using the equipment where suspension could occur	Pass
	5.3.4	Instructions shall contain warnings regarding:	
	a)	not to use the lanyards or positioning lanyards for material handling	Pass
	b)	altering the product	Pass
	c)	misusing the product	Pass
	d)	using combinations of components or subsystems, or both, which may affect or interfere with the safe function of each other	Pass
	e)	exposing the product to chemicals which may produce a harmful effect and to consult the manufacturer in cases of doubt	Pass
	1)	using the product around moving machinery and electrical hazards	Pass
	9)	using the product near sharp edges and abrasive surfaces	Pass
	h)	the need to make only compatible connections and limitations of compatibility	Pass
	i)	proper method of coupling the connector and checking that it is closed and locked	Pass
	j)	reading instructions and labels before use	Pass
	k)	not removing or altering labels	Pass
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Estimates of the uncertainty of measurement

Clause	Test	Uncertainty	
3.2	Component and Element Requirements		
3.2.3	Hardware elements (ANSI/ASSP Z350	9.12)	See report
3.3	Lanyard and Positioning Lanyard Des	ign Requirements	5.7
3.4.1	Fixed length lanyard	Breaking strength	See Note 1
242	Advatable leaved	Slippage test	± 1.4%
3.4.2	Adjustable lanyard	Breaking strength	See Note 1
3.4.3	Lanyards and adjustable lanyards	Dynamic strength	See Note 1
3.5.1	Positioning lanyards	Breaking strength	See Note 1
2.5.2	A COUNTY OF STREET	Slippage test	± 1.4%
3.5.2	Adjustable positioning lanyard	Breaking strength	See Note 1
3.5.3	Positioning lanyards and adjustable positioning lanyards	Dynamic strength	See Note 1
3.5.4	Positioning lanyards	Breaking strength (abraded)	See Note 1
3.5.5	Adjustable positioning lanyard Breaking strength (abraded)		See Note 1
5.1 / 5.2	Marking Requirements		
5.3	Instruction Requirements	(*)	

- Note 1. 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.
- Note 2. The uncertainty value is based on a standard uncertainty multiplied by a coverage factor k = 2, which provides for a confidence level of approximately 95%. Values expressed as a percentage (%) are relative.
- Note 3. It should be noted that the above values have not been taken into account when making assessments against the pass/fail criteria.



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ANNEX

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This Annex comprises one section.

Photograph of the product tested.

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END OF REPORT

Jinhua Jech Tools Co., Ltd. -Positioning lanyard, adjustable, model JE311016



INSPEC Testing Services' specimen 2H14101

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9 September 2020

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