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TEST REPORT:

PD CEN/TS 16415:2013 Personal protective equipment - Anchor devices - Recommendations for anchor devices for use by more than one person simultaneously

Product: Temporary Horizontal Lifeline
Report No: 2024 (W) – 226
Client: CCQS
Model (s): JE902202
Date of sample receive: 2024.08.26
Date(s) of tests: 2024.08.27 – 2024.09.29

DESCRIPTION OF SAMPLES

	Model	Description
General Information	Type C	Webbing lanyard with a karabiner on each terminal. Maximum distance of 20 meters across a single span for use by up to 3 people at the same time.
Manufacturer	Jinhua Jech Tools Co., Ltd.	
Manufacturer Address	No. 1448 Tongxi Road, Linjiang Industrial Park, Wucheng District, Jinhua City, Zhejiang, P. R. China	
Numbers of Samples	2	

Signed:

Issued: 2024.09.29

陈倬为 Chen Zhuowei

Authorized Signatory, Lab Director

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Conditions:

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Test Results

4.2 Specific

4.2.3 Type C anchor device - single span

4.2.3.1

Pass¹

When tested in accordance with 5.4.2 (dynamic strength and integrity test), the anchor device shall not release the rigid test mass and the rigid test mass shall be held clear of the ground. No part of the anchor device shall break.

Note 1. For 3 users. The longest permissible single span anchor device: 20 m.

4.2.3.2

Pass²

When tested in accordance with 5.4.2 (dynamic strength and integrity test), the maximum load measured at the extremity anchor should not exceed 50% of the minimum breaking strength of the flexible anchor line as specified in the information supplied by the manufacturer (see Clause 7).

Note 2. For 3 users. Minimum breaking strength: 20 kN.

4.2.3.3

Pass³

When tested in accordance with 5.4.2 (dynamic strength and integrity test), the values at the extremities and the maximum dynamic deflection of the flexible anchor line shall not vary by more than $\pm 20\%$ from those predicted.

Note 3. For 3 users. Maximum deflection: 2.0 m. The predicted maximum load of extremity anchor: 8 kN.

4.2.3.4

Pass⁴

When tested in accordance with 5.4.3 (static strength test), the anchor device shall hold the load.

Note 4. For 3 users.

End of Test Results

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Annex A: Summarization of Test Data

TABLE 4.2.3.1 - DYNAMIC STRENGTH AND INTEGRITY TEST RESULTS:
Test Specification: 5.4.2 of PD CEN/TS 16415:2013

Sample Information/ Test Conditions	Result	Assessment
Dynamic strength test for type C		
Dynamic strength test for the first test		Pass
Sample Number: 1#	Anchor device didn't release the rigid test mass.	
Test Condition:	Test lanyard with sewn terminations: 1000 mm Fall arrest load of the test lanyard: 12.01 kN Horizontal distance: 240 mm Test mass: 200 kg	
Dynamic strength test for the second test		Pass
Sample Number: 1#	Anchor device didn't release the rigid test mass.	
Test Condition:	Test lanyard with sewn terminations: 2000 mm Fall arrest load of the test lanyard: 9.09 kN Horizontal distance: 240 mm Test mass: 100 kg	
Integrity test for type C		
Sample Number: 1#	The rigid test mass was held clear of the ground.	Pass
Test Condition:	Static Load: 750 kg for 3 min	
Testing direction: Vertical downward installation. For 3 users.		

TABLE 4.2.3.2 - DYNAMIC STRENGTH AND INTEGRITY TEST RESULTS:**Test Specification: 5.4.2 of PD CEN/TS 16415:2013**

Sample Information/ Test Conditions	Result	Assessment
Dynamic strength test for type C		
Dynamic strength test for the first test		Pass
Sample Number: 1#	Extremity anchor maximum load: 9.12 kN 50% of the minimum breaking strength: 10 kN	
Test Condition:	Test lanyard with sewn terminations: 1000 mm Fall arrest load of the test lanyard: 12.01 kN Horizontal distance: 240 mm Test mass: 200 kg	
Dynamic strength test for the second test		Pass
Sample Number: 1#	Extremity anchor maximum load: 6.68 kN 50% of the minimum breaking strength: 10 kN	
Test Condition:	Test lanyard with sewn terminations: 2000 mm Fall arrest load of the test lanyard: 9.09 kN Horizontal distance: 240 mm Test mass: 100 kg	
Testing direction: Vertical downward installation. For 3 users.		

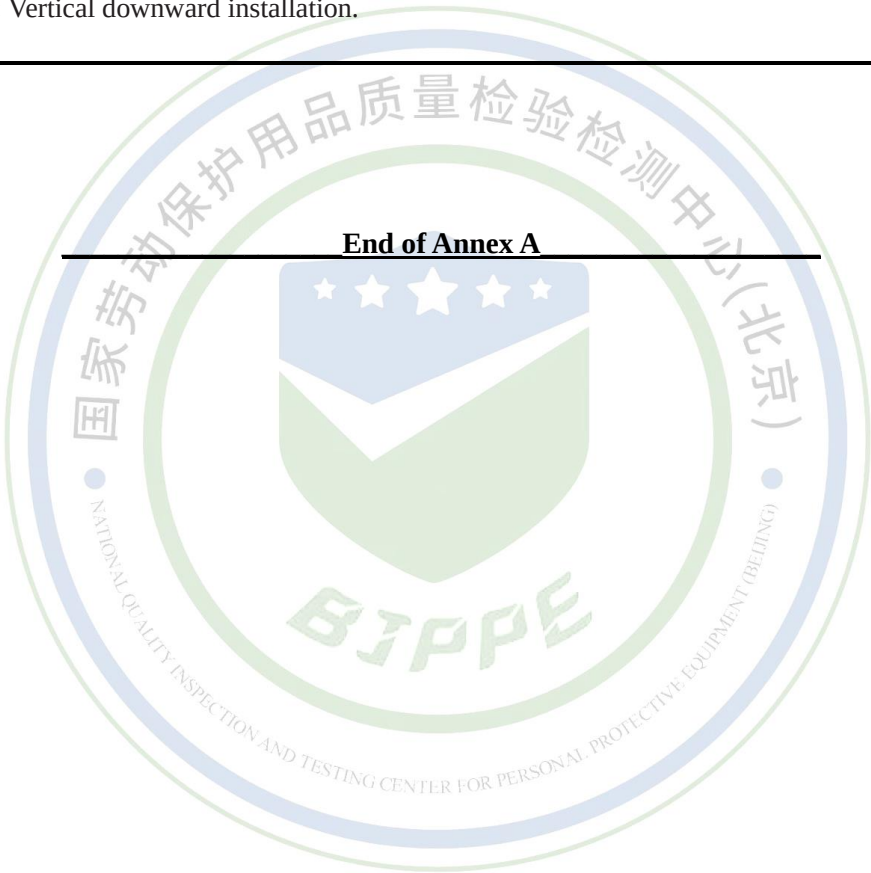
TABLE 4.2.3.3 - DYNAMIC STRENGTH AND INTEGRITY TEST RESULTS:**Test Specification: 5.4.2 of PD CEN/TS 16415:2013**

Sample Information/ Test Conditions	Result	Assessment
Dynamic strength test for type C		
Dynamic strength test for the first test		Pass
Sample Number: 1#	Dynamic deflection: 1.72 m Dynamic deflection vary: -14 % Extremity anchor maximum load: 9.12 kN Extremity anchor maximum load vary: 14 %	
Test Condition:	Test lanyard with sewn terminations: 1000 mm Fall arrest load of the test lanyard: 12.01 kN Horizontal distance: 240 mm Test mass: 200 kg	
Dynamic strength test for the second test		
Sample Number: 1#	Dynamic deflection: 1.84 m Dynamic deflection vary: -8 % Extremity anchor maximum load: 6.68 kN Extremity anchor maximum load vary: -16.5 %	Pass
Test Condition:	Test lanyard with sewn terminations: 2000 mm Fall arrest load of the test lanyard: 9.09 kN Horizontal distance: 240 mm Test mass: 100 kg	
Testing direction: Vertical downward installation. For 3 users.		

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TABLE 4.2.3.4 - STATIC STRENGTH TEST RESULTS:
Test Specification: 5.4.3 of PD CEN/TS 16415:2013

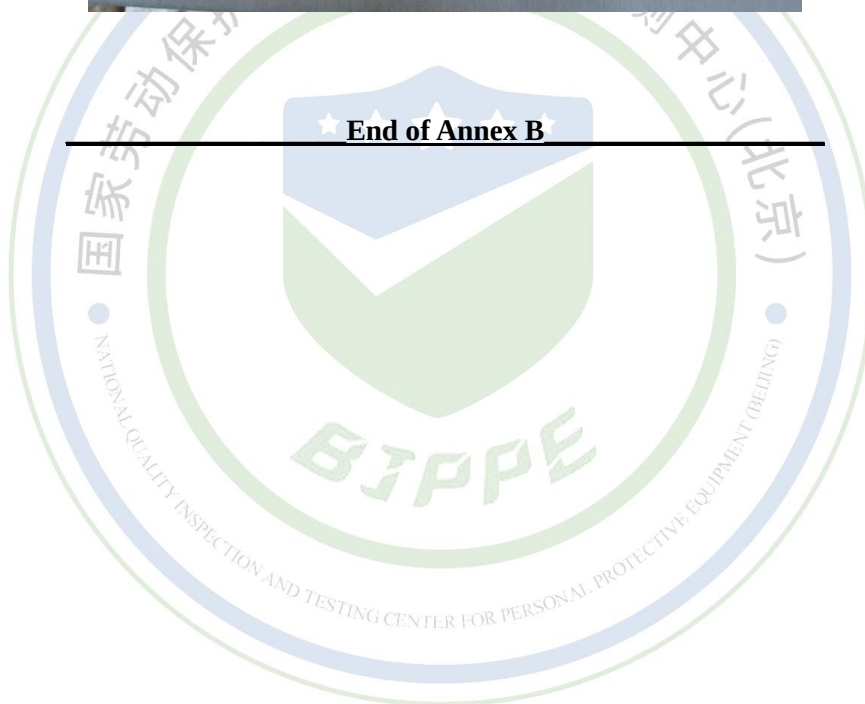
Sample Information/ Test Conditions	Result	Assessment
Type C		
Sample Number: 2#	Anchor device held the load	Pass
Test Condition:	Static Load: 20 kN for 3 min	
Testing direction: Vertical downward installation. For 3 users.		



ANNEX B: PHOTOS OF SAMPLES



★ **End of Annex B** ★



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