INSPEC TESTING SERVICES

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Test Report

ANSI 121-2018
Dropped Object Prevention Solutions

Report no:	2.24.08.29
Customer:	Frontline Fall Protection Inc. 6 Lee Blvd. Malvern PA 19355 U.S.A
Manufacturer: **as advised by the Customer**	Frontline Fall Protection Inc.
Customer orders:	T/0740 and T/1361A
Orders received:	20 March 2020 and 5 July 2024 respectively
Model:	TLC05
Dates of tests:	2 June 2020 to 9 July 2020 and 2 August 2024

Signed: 

Steven Sum, Laboratory Manager

Issued: 5 August 2024

Conditions

This report may be reproduced and distributed to your customers, 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)
6.1	Design requirements - Tool lanyards	**Pass**
6.2.1	Dynamic performance - ambient dry	**Pass**
	Dynamic performance - ambient wet	**Pass**
	Dynamic performance - cold dry	**Pass**
	Dynamic performance - hot dry	**Pass**
6.2.2	Tool lanyards – multiple components	
9	Marking and Labelling	**Ltd**

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.** (2H074+)
Tool lanyards, model TLC05	06	2 April 2020	01 - 06

Procedures

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

Testing was performed in accordance with ANSI 121-2018 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

6 Tool Lanyards

6.1 Design requirements

All specimens were assessed.

Each tool lanyard incorporated two carabiners. All carabiners used with the tool lanyards had locking gates and captive eyes. **Pass**

6.2.1 Dynamic test – ambient dry

Specimen 2H07402 was assessed.

The published capacity of the tool lanyard by the manufacturer was 5 lbs.

When tested in accordance with 6.3 with a test factor of 2:1, there was no failure of the tool lanyard that allowed the test weight to be released. **Pass**

When tested in accordance with 6.3 with a test factor of 1:1, there were no failures of the tool lanyard that allowed the test weight to be released. **Pass**

6.2.1 Dynamic test – ambient wet

Specimen 2H07403 was assessed.

The published capacity of the tool lanyard by the manufacturer was 5 lbs.

When tested in accordance with 6.3 with a test factor of 2:1, there was no failure of the tool lanyard that allowed the test weight to be released. **Pass**

When tested in accordance with 6.3 with a test factor of 1:1, there were no failures of the tool lanyard that allowed the test weight to be released. **Pass**

6.2.1 Dynamic test – cold dry

Specimen 2H07404 was assessed.

The published capacity of the tool lanyard by the manufacturer was 5 lbs.

When tested in accordance with 6.3 with a test factor of 2:1, there was no failure of the tool lanyard that allowed the test weight to be released. **Pass**

When tested in accordance with 6.3 with a test factor of 1:1, there were no failures of the tool lanyard that allowed the test weight to be released. **Pass**

6.2.1 Dynamic test – hot dry

Specimen 2H07405 was assessed.

The published capacity of the tool lanyard by the manufacturer was 5 lbs.

When tested in accordance with 6.3 with a test factor of 2:1, there was no failure of the tool lanyard that allowed the test weight to be released. **Pass**

When tested in accordance with 6.3 with a test factor of 1:1, there were no failures of the tool lanyard that allowed the test weight to be released. **Pass**

9 Markings and Labelling

9.1 General

Marking labels were provided electronically and were assessed against the requirements of ANSI 121:2018. The results are detailed below.

- Markings were on the product itself or on labels attached to the product; **NAs**
- Markings were permanently affixed so as to be visible and legible; and **NAs**
- Markings were provided in English. **Pass**

9.2 Product Label Requirements

The following information shall be included on the labelling attached to the solution:

a) Name, trademark or other means of identification of the manufacturer (for all solutions); [FRONTLINE] **Pass**

b) Product identification (number, date code and/or serial number) (for all solutions); [TLC05] **Pass**

c) Published capacity(ies), identified by weight (for all solutions); [5 lbs] **Pass**

d) Number of this specific ANSI standard (ANSI 121-2018); **Pass**

e) Lanyard length (for tool lanyards only); [20.5 to 67 inches] **Pass**

f) Max. lanyard length (for anchor points, attachments and if applicable, containers). **NAp**

9.3 Instructions for Use

Manufacturers shall provide instructions for use for solutions. At a minimum, the following information shall be given:

a) Necessary warnings of misuse. **Pass**

b) Limitation of use. **Pass**

c) Minimum and maximum size for geometry of solutions including but not limited to tool diameter, person size, etc. **Pass**

d) Inspection details. **Pass**

e) Clearance distance, if different from max lanyard length. **NAp**

Estimates of the uncertainty of measurement

Clause	Test	Uncertainty
6.1	Design requirements	Not applicable
6.2.1	Dynamic performance – ambient dry	See Note 1
	Dynamic performance – conditioning tests	See Note 1
6.2.2	Dynamic performance – ambient dry	See Note 1
	Dynamic performance – conditioning tests	See Note 1
9	Markings and Labeling	Not applicable

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 assessment to the pass/fail criteria.

ANNEX

This Annex comprises one section.

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

END OF REPORT