



Test Report # T16756-01-1 Issue 1
ANSI/ISEA Z89.1 - 2014 (R2019)
Treck S.A.
ACTIVEX I – Industrial Safety Helmet
16 February 2022



Approved by:

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Prepared by:

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 Santa Rosa 5220
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 Chile

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Objective:

Contract testing to ANSI/ISEA Z89.1-2014 (R2019) “American National Standard for Industrial Head Protection”.

-Type I, Class E & C

Sample(s):

ACTIVEX I* - Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Shell (Front Brim Cap) w/ Ratchet Suspension (6-8 pt.), Non- Vented w/ Chin Strap/Cup	30	1/22	HDPE	27 January 2022	6A-x

*I not present on product

Procedures:

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

Testing procedures as specified within Section 10 of ANSI/ISEA Z89.1-2014 (R2019) were followed.

Testing was performed at room temperature 23°C ± 3°C (73.4°F ± 5.4°F) per ANSI/ISEA Z89.1 – 2014 (R2019).

Equipment:

Cadex Twin Wire Test Platform
 Environmental Conditioning Chambers
 Cadex Impact Software V6.9U
 Hanco Dielectric Strength Chamber

Assessment Summary:

Date Tested: 14 February 2022 - 16 February 2022
 Test Performed By: Joe McGreal – Engineering Technician

Requirements	Compliant	Non-Compliant
6 Instruction and Marking	<i>Excluded</i>	
7 Performance Requirements		
7.1 Requirements for Type I		
7.1.1 Flammability	X	
7.1.2 Force Transmission	X	
7.1.3 Apex Penetration	X	
7.1.4 Electrical Insulation Requirement		
7.1.4.3 Electrical Insulation Requirement - Class E	X	
7.3 Requirements for Optional Testing		
7.3.1 Reverse Wearing		
-Force Transmission		
7.3.2 High-Visibility	Not Applicable	
7.3.3 Higher Temperature		
7.3.4 Lower Temperature		

Samples as assessed meet the mechanical performance requirements of ANSI/ISEA Z89.1 2014 (R2019) for Type I, Class E & C.

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Results:

7.1.1 Flammability

Sample ID	Afterflame (sec)	Pass	Fail
6A-12	0	X	
Specification:	< 5		

7.1.2 Force Transmission

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
6A-1	49 ± 2	5.48	2344	≤ 4450	-	X	
6A-2		5.49	2097		-	X	
6A-3		5.50	2149		-	X	
6A-4		5.50	2145		-	X	
6A-5		5.48	2134		-	X	
6A-6		5.49	2148		-	X	
6A-7		5.49	2153		-	X	
6A-8		5.49	2148		-	X	
6A-9		5.48	2133		-	X	
6A-10		5.49	2161		-	X	
6A-11		5.49	2104		-	X	
6A-12		5.49	2188		-	X	
Average			2159	≤ 3780		X	
6A-13	-18 ± 2	5.49	3369	≤ 4450	1	X	
6A-14		5.49	3027		1	X	
6A-15		5.50	3267		1	X	
6A-16		5.50	3192		1	X	
6A-17		5.50	3064		1	X	
6A-18		5.49	3681		1	X	
6A-19		5.50	3514		-	X	
6A-20		5.51	3136		1	X	
6A-21		5.50	3283		1	X	
6A-22		5.50	3421		1	X	
6A-23		5.49	3210		1	X	
6A-24		5.49	3241		1	X	
Average			3284	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:

(-) No observation

1 – Suspension tab/tabs broke

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7.1.3 Apex Penetration

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
6A-25	49 ± 2	7.0	No	-	X	
6A-26		7.1	No	-	X	
6A-27		7.0	No	1	X	
6A-28	-18 ± 2	7.0	No	-	X	
6A-29		7.0	No	-	X	
6A-30		7.0	No	1	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:
 (-) No observation
 1 – Ratchet broke

7.1.4.3 Electrical Insulation Requirements (Class E)

Sample ID	Leakage (mA)	Burn Through (Yes/ No)	Observations	Pass	Fail
6A-1	3.4	No	-	X	
6A-13	3.4	No	-	X	
Specification:	Class E: ≤ 9 mA	No Burn Through Allowed			

Class E - 20,000 volts, 60 Hz, 3 minutes, 30,000 volts no burn through.

Note: Test line lowered to prevent flashover.
 Samples do not have test line coverage for E or G.

Observations:
 (-) No observation

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Sample Photographs:



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