



Test Report # T16756-03-2 Issue 1  
ANSI/ISEA Z89.1 - 2014 (R2019)  
Treck S.A.  
ACTIVEX III – Industrial Safety Helmet  
28 November 2022



Approved by:

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Sarah Henderson  
Head Protection, Hand Protection &  
Athletic Equipment - Laboratory Manager

Prepared by:

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Shelley Brady  
Head Protection & Athletic Equipment -  
Laboratory Administrator

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**ICS Laboratories, Inc. • 1072 Industrial Parkway North • Brunswick, Ohio 44212 USA**  
**Phone: 330.220.0515 Fax: 330.220.0516**

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 Santa Rosa 5220  
 San Joaquin 8960025  
 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, G & C

**Sample(s):**

ACTIVEX III\* - Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Shell (Front Brim Cap) w/ Push-Lock Suspension (4pt.), Non-Vented w/ Chin Strap	30	1/22	HDPE	02 November 2022	6B-03-x

\*III 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: 22 November 2022 - 23 November 2022

Test Performed By: Pete Turpin – Senior 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, G & C.

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**Results:**

**7.1.1 Flammability**

Sample ID	Afterflame (sec)	Pass	Fail
6B-03-12	0	X	
Specification:	< 5		

**7.1.2 Force Transmission**

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
6B-03-1	49 ± 2	5.48	3132	≤ 4450	-	X	
6B-03-2		5.51	2915		-	X	
6B-03-3		5.51	3002		-	X	
6B-03-4		5.49	2958		-	X	
6B-03-5		5.49	2959		-	X	
6B-03-6		5.51	2938		-	X	
6B-03-7		5.50	3089		-	X	
6B-03-8		5.49	3066		-	X	
6B-03-9		5.51	2978		-	X	
6B-03-10		5.49	2981		-	X	
6B-03-11		5.48	3023		-	X	
6B-03-12		5.49	3091		-	X	
Average			3011	≤ 3780		X	
6B-03-13	-18 ± 2	5.49	3218	≤ 4450	-	X	
6B-03-14		5.49	3693		-	X	
6B-03-15		5.50	3458		-	X	
6B-03-16		5.49	3390		-	X	
6B-03-17		5.48	3326		-	X	
6B-03-18		5.52	3649		-	X	
6B-03-19		5.50	3477		-	X	
6B-03-20		5.51	3414		-	X	
6B-03-21		5.49	3565		-	X	
6B-03-22		5.50	3349		-	X	
6B-03-23		5.49	3369		-	X	
6B-03-24		5.49	3369		-	X	
Average			3440	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:  
 (-) No observation

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**7.1.3 Apex Penetration**

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (Yes/ No)	Observations	Pass	Fail
6B-03-25	49 ± 2	7.1	No	-	X	
6B-03-26		7.1	No	-	X	
6B-03-27		7.1	No	-	X	
6B-03-28	-18 ± 2	7.1	No	-	X	
6B-03-29		7.0	No	1	X	
6B-03-30		7.0	No	2	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:

(-) No observation

1 – Liners became loose from impact & suspension tabs released

2 – Suspension tab released

**7.1.4.3 Electrical Insulation Requirements (Class E)**

Sample ID	Leakage (mA)	Burn Through (Yes/ No)	Observations	Pass	Fail
6B-03-1	3.5	No	-	X	
6B-03-13	3.2	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 of G

Observations:

(-) No observation

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**Sample Photographs:**



**Observation Photographs:**



Liners loosened from impacts & suspension tabs released

Suspension tab released

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14. Client agrees to pay any and all additional costs associated with unexpected or above-standard communications and/or consultations with Client or third parties as designated by Client.
15. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
16. Client understands and agrees that ICS, in entering into this Contract and by performing services hereunder, does not assume, abridge, abrogate or undertake to discharge any duty or responsibility of Client to any other party or parties. No one other than Client shall have any right to rely on any Report or other representation or conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such third parties.
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18. Client agrees, in consideration of ICS undertaking to perform the test(s) hereunder, to protect, defend and indemnify ICS from any and all claims, damages, expenses either direct or consequential for injuries to persons or property arising out of or in consequence of the performance of the testing, inspection and reporting hereunder and/or the performance of the products tested or inspected hereunder, unless caused by the negligence of ICS.
19. It is agreed that if ICS should be found liable for any losses or damages attributable to the services hereunder in any respect, its liability shall not exceed the amount of the fee paid by Client for services rendered and Client's sole remedy at law or in equity shall be the right to recover that sum.
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21. ICS hereby objects to any conflicting terms contained in any order, acceptance or other subsequent correspondence submitted by Client.
22. In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
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