



Test Report # T20908-01-1 Issue 1
ANSI/ISEA Z89.1 - 2014 (R2019)
Jinhua City Jinhan Safety Tools Co., Ltd.
W-6000 – Industrial Safety Helmet
21 August 2026



Prepared & Approved by:

A handwritten signature in black ink, appearing to read "Shelley Brady".

Shelley Brady
Head Protection & Athletic Equipment –
Administrative Laboratory Manager

Performed by:

A handwritten signature in black ink, appearing to read "Nicole Klenotic".

Nicole Klenotic
Head Protection & Athletic Equipment –
Laboratory Technician

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Jinhua City, Zhejiang Province
China

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Objective:

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

Sample(s):

W-6000*- Industrial Safety Helmet

Description	Qty	Date Code	Material	Date Received	Sample ID
White Shell (Cap) w/ Ratchet Suspension (4 pt.), Vented w/ Chin Strap	30	5/26	ABS	06 July 2026	8A-x

*W-6000 not found 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).

Material listed as shown on product or in attestation from client. The material has not been verified by the lab.

Equipment:

Cadex Twin Wire Test Platform
Environmental Conditioning Chambers
Cadex Impact Software V6.9U
Cadex Retention Rig

Assessment Summary:

Date Tested: 17 August 2026 – 20 August 2026

Test Performed By: Nicole Kenotic – Lab Technician

Requirements	Compliant	Non-Compliant
6 Instructions and Marking	Excluded	
7 Performance Requirements		
7.1 Requirements for Type I and Type II Helmets		
7.1.1 Flammability	X	
7.1.2 Force Transmission	X	
7.1.3 Apex Penetration	X	
7.2 Additional Requirements for Type II Helmets		
7.2.1 Impact Energy Attenuation	X	
7.2.2 Off-Center Penetration	X	
7.2.3 Chin Strap Retention	X	
7.3 Requirements for Optional Testing		
7.3.1 Reverse Wearing		
-Force Transmission	Not Applicable	
-Impact Energy Attenuation (Type II)		
-Off-Center Penetration (Type II)		
7.3.2 High-Visibility		
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 II, Class C.

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Results:

7.1.1 Flammability

Sample ID	Afterflame (sec)	Pass	Fail
8A-12	1	X	
Specification:	< 5		

7.1.2 Force Transmission

Sample ID	Conditioning (°C)	Velocity (m/s)	Force (N)	Specified Value (N)	Observations	Pass	Fail
8A-1	49 ± 2	5.49	2552	≤ 4450	1	X	
8A-2		5.49	2568		1	X	
8A-3		5.48	2519		1	X	
8A-4		5.48	2391		1	X	
8A-5		5.49	2458		1	X	
8A-6		5.52	2702		1	X	
8A-7		5.49	2785		1	X	
8A-8		5.51	2713		1	X	
8A-9		5.50	2560		1	X	
8A-10		5.50	2507		1	X	
8A-11		5.50	2474		1	X	
8A-12		5.50	2581		1	X	
Average			2568	≤ 3780		X	
8A-13	-18 ± 2	5.49	2663	≤ 4450	1	X	
8A-14		5.50	2572		1	X	
8A-15		5.50	2615		1	X	
8A-16		5.52	2681		-	X	
8A-17		5.51	2629		1	X	
8A-18		5.50	2689		1	X	
8A-19		5.50	2735		1	X	
8A-20		5.50	2625		1	X	
8A-21		5.50	2608		1	X	
8A-22		5.50	2571		1	X	
8A-23		5.50	2605		-	X	
8A-24		5.50	2784		1	X	
Average			2648	≤ 3780		X	
Specification:		5.50 ± 0.05					

Observations:

(-) No observation

1 – Foam cracked upon impact

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7.1.3 Apex Penetration

Sample ID	Conditioning (°C)	Velocity (m/s)	Electrical Contact (No / Yes)	Observations	Pass	Fail
8A-25	49 ± 2	7.1	No	-	X	
8A-26		7.1	No	-	X	
8A-27		7.1	No	-	X	
8A-28	-18 ± 2	7.1	No	-	X	
8A-29		7.1	No	-	X	
8A-30		7.1	No	-	X	
Specification:		7.0 ± 0.1	No Electrical Contact Allowed			

Observations:
(-) No observation

7.2.1 Impact Energy Attenuation

Sample ID	Location	Conditioning (°C)	Velocity (m/s)	Acceleration (g)	Observations	Pass	Fail
8A-2	Front	49 ± 2	3.5	65	-	X	
8A-3	Rear		3.5	47	-	X	
8A-4	Right Side		3.5	94	-	X	
8A-5	Upper Right Side		3.5	38	-	X	
8A-14	Front	-18 ± 2	3.5	69	-	X	
8A-15	Rear		3.5	48	-	X	
8A-16	Right Side		3.5	77	-	X	
8A-17	Upper Right Side		3.5	40	-	X	
8A-6	Front	23 ± 2 (Wet)	3.5	69	-	X	
8A-7	Rear		3.5	58	-	X	
8A-18	Right Side		3.5	76	-	X	
8A-19	Upper Right Side		3.5	37	-	X	
Specification:			3.5 ± 0.1	≤ 150			

Headform: ISO Size M

Observations:
(-) No observation

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7.2.2 Off-Center Penetration

Sample ID	Location	Conditioning (°C)	Velocity (m/s)	Headform Contact (No / Yes)	Observations	Pass	Fail
8A-8	Front	49 ± 2	5.0	No	-	X	
	Rear		5.0	No	-	X	
8A-9	Right Side		5.0	No	-	X	
	Left Side		5.0	No	-	X	
8A-20	Front	-18 ± 2	5.0	No	1	X	
	Rear		5.0	No	-	X	
8A-21	Right Side		5.0	No	-	X	
	Left Side		5.0	No	-	X	
8A-10	Front	23 ± 2 (Wet)	5.0	No	-	X	
	Rear		5.0	No	-	X	
8A-22	Right Side		5.0	No	-	X	
	Left Side		5.0	No	-	X	
Specification:			5.0 ± 0.1	No Headform Contact Allowed			

Observations:

(-) No observation

1 – Suspension adjustment strap released

7.2.3 Chin Strap Retention

Sample ID	Conditioning (°C)	Deflection Value (mm)	Chin Strap Remained Attached (Yes / No)	Pass	Fail
8A-11	49 ± 2	23	Yes	X	
8A-13	-18 ± 2	18	Yes	X	
8A-23	23 ± 2 (Wet)	19	Yes	X	
Specification:		≤ 25	Chin strap shall remain attached to helmet		

Drop Height: 4.0 ± .02 in.

Chin strap shall be made of material not less than 12.7 mm in width; **Result: Pass**

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Sample Photographs:



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