Test Report

No.: GZHL260602709501HM **Date: Jun 05, 2026**

LINKTECH WORLD TRADE GROUP
7901 4TH ST N# 14907 ST. PETERSBURG, FL 33702,USA

Sample Descriptions	: SAFETY HELMET
Style No.(s)	: M180-LT 783
Size	: 54CM-63CM

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No.	: QDHL2604005224HM
Sample Receiving Date	: Apr 22, 2026
Test Performing Date	: Apr 22, 2026 to May 18, 2026
Test Performed	: **ANSI/ISEA Z89.1-2014(R2019)**
Test Result(s)	: For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Robert

Robert Zhao
Authorized Signatory

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Test Report

No.: GZHL260602709501HM **Date: Jun 05, 2026**

Test Conducted: Based on **ANSI/ISEA Z89.1-2014(R2019)** American National Standard for Industrial Head Protection

Number of Tested Sample: 30 piece(s)

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
5	**Accessories and Replacement Components** Accessoriesorreplacement components,wheninstalled,shall not cause the helmet to fail the requirements of this standard. The entity claiming that an accessory or replacement component, when installed, does not cause the helmet to fail the requirements of this standard is responsible for providing justification upon request.	Not provided
6	**Instructions and Marking**	
6.1	Each helmet shall be accompanied by manufacturers' instructions explaining the application(s) of use, proper method of size adjustment and fitting (including, if applicable, reverse wearing) and, guidelines for care and useful service life. NOTE: Useful service life guidelines are intended to provide the user with information that certain conditions may affect a specific helmet's continued protection over time. A specific service life, defined in terms of number of years, is not required though individual manufacturers may choose to include such information for their respectivehelmets.	Pass
6.2	Each helmet shall bear permanent markings in at least 1.5 mm (0.06 in.) high letters stating the following information: a. Name or identification mark of the manufacturer. b. The date of manufacture. c. The American National Standard designation, ANSI/ISEA Z89.1-2014. d. The applicable Type and Class designations, followed by applicable optional criteria markings; e. The approximate headsize range (see Table 2).	Pass
6.3	If optional performance features are satisfied, the appropriate marking below shall be applied in the sequence as specified below:  - Reverse donning; LT - Lower temperature HV - High visibility HT – Higher temperature The size of the reverse donning symbol shall be large enough to be legible.	NT
7	**Performance Requirements**	
7.1	**Requirements for Type I and Type II Helmets**	
7.1.1	**Flammability** Helmets shall betested in accordancewithSection 10.1. No flame shall be visible 5 seconds after removal of the test flame.	Pass

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Clause	Test Method/Requirement	Result
7.1.2	**Force Transmission** Helmets shall be tested in accordance with Section 10.2 and shall not transmit a force to the test headform that exceeds 4,450 N (1,000 lbf). Additionally, for each preconditioning specified, the maximum transmitted force of individual test samples shall be averaged. The averaged values shall not exceed 3,780 N (850 lbf).	Pass
7.1.3	**Apex Penetration** Helmets shall be tested in accordance with Section 10.3. The penetrator shall not make contact with the topof the testheadform.	Pass
7.1.4	**Electrical Insulation Requirements**	
7.1.4.1	**General** ClassG and Class E helmets shallmeet their appropriate performance requirement as listed below. Class C helmets are not tested for electrical insulation.	Class E
7.1.4.2	**Class G Requirements** Class G helmets shall be tested in accordance with Section 10.7 and shall withstand 2,200 volts (root mean square) AC, 60 hertz, for 1 minute. Leakage shall not exceed 3 milliamperes.	NA
7.1.4.3	**Class E Requirements** After first passing the force transmission test specified in Section 7.1.2, Class E helmets shall be tested in accordance with Section 10.7 and shall withstand 20,000 volts (root mean square) AC, 60 hertz, for 3 minutes. Leakage shall not exceed 9 milliamperes. At 30,000 volts, the test sample shall not burn through.	Pass
7.2	**Additional Requirements for Type II Helmets**	
7.2.1	**Impact Energy Attenuation** TypeIIhelmetsshall betested inaccordancewith Section 10.4. Maximum acceleration shall not exceed 150*g*.	Pass
7.2.2	**Off-center Penetration** Type II helmets shall be tested in accordance with Section 10.5. For each helmet tested, the penetrator shall not make contact with the test headform.	Pass
7.2.3	**Chin Strap** Chin straps shall be made of material not less than 12.7 mm (0.50 in.) in width. Type II helmets which are provided with chin straps shall be tested for retention in accordance with Section 10.6. For each helmet tested,, the chin strap shall remain attached to the helmet. The residual elongation of the strapshallnot exceed 25 mm(1.0 in.).	Pass
7.3	**Requirements for Optional Features**	
7.3.1	**Reverse Wearing** Type I Helmets that are to be marked with the reverse wearing marking shall pass the force transmission test when mounted in the reverse position on the headform. Type II Helmets that are to be marked with the reverse wearing mark shall pass the force transmission, impact attenuation, and off-center penetration tests when mounted in the reverse wearing position on the test headform.	NA

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<table>
<tr><th>Clause</th><th>Test Method/Requirement</th><th>Result</th></tr>
<tr><td>7.3.2</td><td>High-Visibility
Whenmeasured in accordance with Section 10.8, helmets marked “HV” for high-visibility shall demonstrate, for the appropriate color in Table 1:
a. Chromaticity that lies within one of the sets of coordinates in Table 1
b. Total luminance factor (Y expressed as a percentage) that meets or exceeds the corresponding minimum value in Table 1.
Table 1. Color, High-Visibility Helmets
<table>
<tr><th rowspan="2">Color</th><th colspan="2">Chromaticity coordinates</th><th>Minimum total luminance factor</th></tr>
<tr><th>x</th><th>y</th><th>Y (%)</th></tr>
<tr><td>Fluorescent yellow-green</td><td>0.387
0.356
0.398
0.460</td><td>0.610
0.494
0.452
0.540</td><td>70</td></tr>
<tr><td>Fluorescent orange-red</td><td>0.610
0.535
0.570
0.655</td><td>0.390
0.375
0.340
0.344</td><td>40</td></tr>
<tr><td>Fluorescent red</td><td>0.655
0.570
0.595
0.690</td><td>0.344
0.340
0.315
0.310</td><td>25</td></tr>
</table></td><td>NA</td></tr>
</table>

Remark:

1. NA = Not applicable.
2. NT = Not tested as per client’s request.
3. Clause 7.3.2 is not within CNAS accreditation testing scope of the lab.

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Test Report

No.: GZHL260602709501HM Date: Jun 05, 2026

Item No: M180 Size: 54-63 cm Test headform: M (ISO) Type: II Class: E

Annex-1: Force Transmission test (Test headform: Size 7)
TestSpecification:ANSI/ISEA Z89.1-2014 -10.2
Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Impact site	Velocity (m/s)	Peak force	Requirement for single value	Result	Mean value (N)	Requirement for mean value	Result
1	Hot	Crown	5.45	2694.4	≤4,450 N (1,000 lbf)	Pass	2832.1	≤3,780 N (850 lbf)	Pass
2			5.51	2729.7		Pass			
3			5.47	2953.2		Pass			
4			5.47	2612.0		Pass			
5			5.47	2823.8		Pass			
6			5.46	2876.8		Pass			
7			5.46	2782.6		Pass			
8			5.49	3341.5		Pass			
9			5.49	2959.1		Pass			
10			5.45	2723.8		Pass			
11			5.47	2847.3		Pass			
12			5.50	2641.4		Pass			
13	Cold		5.54	2853.2		Pass	2777.9		Pass
14			5.50	2723.8		Pass			
15			5.49	2753.2		Pass			
16			5.49	2670.9		Pass			
17			5.45	2888.5		Pass			
18			5.49	2676.7		Pass			
19			5.47	2670.9		Pass			
20			5.50	2753.2		Pass			
21			5.51	2870.9		Pass			
22			5.51	2723.8		Pass			
23			5.49	3047.1		Pass			
24			5.45	2702.9		Pass			

Annex-2: Electrical Insulation test
TestSpecification:ANSI/ISEA Z89.1-2014 -10.7
Ambient temperature at time of test: 23.2 °C

Sample No.	alternating current	Root mean square voltage	Leakage (milliamperes)	Result
24	60-Hertz	2,200 volts	5.62	Pass
	60-Hertz	2,200 volts	5.57	Pass

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Sample No.	alternating current	Root mean square voltage	Test description	Result
24	60-Hertz	30,000 volts	Not burn-through	Pass
	60-Hertz	30,000 volts	Not burn-through	Pass

Annex-3: Apex Penetration test

TestSpecification:ANSI/ISEA Z89.1-2014 -10.3

Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Test Site	Velocity (m/s)	Test description	Result
25	Hot	Crown	7.1	Not contact the test headform	Pass
26			7.0	Not contact the test headform	Pass
27			6.9	Not contact the test headform	Pass
28	Cold		7.1	Not contact the test headform	Pass
29			6.9	Not contact the test headform	Pass
30			7.0	Not contact the test headform	Pass

Annex-4: Impact Energy Attenuation test

TestSpecification:ANSI/ISEA Z89.1-2014 -10.4

Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Impact site	Anvil	Velocity (m/s)	maximum *g* value	Result
2	Hot	Front	Hemispherical	3.57	65.0	Pass
3		Right		3.58	140.0	Pass
4		Left		3.55	41.6	Pass
5		Rear		3.60	145.9	Pass
14	Cold	Front		3.60	93.5	Pass
15		Right		3.54	145.0	Pass
16		Left		3.54	111.1	Pass
17		Rear		3.57	93.0	Pass
6	Wet	Left front		3.59	147.3	Pass
7		Left rear		3.55	94.9	Pass
18		Right front		3.52	79.0	Pass
19		Right rear		3.52	108.4	Pass

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Annex-5: Off Center Penetration test
Test Specification: ANSI/ISEA Z89.1-2014 -10.5
Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	Test Site	Velocity (m/s)	Test description	Result
8	Hot	Front	5.0	Not contact the test headform	Pass
		Rear	5.1	Not contact the test headform	
9		Left	5.1	Not contact the test headform	Pass
		Right	4.9	Not contact the test headform	
20	Cold	Front	5.0	Not contact the test headform	Pass
		Rear	5.1	Not contact the test headform	
21		Left	4.9	Not contact the test headform	Pass
		Right	5.1	Not contact the test headform	
10	Wet	Left front	5.1	Not contact the test headform	Pass
		Left rear	5.0	Not contact the test headform	
22		Right front	5.0	Not contact the test headform	Pass
		Right rear	5.0	Not contact the test headform	

Annex-6: Chin Strap Retention test
TestSpecification:ANSI/ISEA Z89.1-2014 -10.6
Ambient temperature at time of test: 23.2 °C

Sample No.	Condition	The deflection (residual elongation) value (mm)	Result
11	Hot	15.9	Pass
13	Cold	20.0	Pass
23	Wet	16.7	Pass

Annex-7: Flammability test
TestSpecification:ANSI/ISEA Z89.1-2014 -10.1
Ambient temperature at time of test: 23.2 °C

Sample No.	Test description	Result
12	No flame be visible 5 seconds after removal of the test flame.	Pass

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