

Test Report No.: GZHL1610043822HM Date: Oct 31, 2016 Page 2 of 15

Test Conducted: Based on **ASTM F1849-07** Standard Specification for Helmets Used in Short Track Speed Ice Skating (Not to Include Hockey)

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
3	Labels and Warnings	
3.1	Shall meet the requirements of Test Methods F 1446.	Pass
3.2	Headgear designed to comply with this and other standards may proclaim uses as certified by the manufacturer.	Pass
3.3	Headgear designed to comply with this and other standards may proclaim uses as certified by the manufacturer.	Pass
6	Retention System Testing	
6.3	The retention system shall remain intact and the helmet shall remain on the headform.	Pass See annex 4
6.5	The retention system shall remain intact without elongating more than 30 mm.	Pass See annex 2
7	Impact Sites and Projections	
7.2	Projections—Any unfaired projection extending more than 7 mm from the helmet's outer surface shall break away or collapse when impacted with forces equivalent to those produced by applicable impact-attenuation tests in Section 10. There shall be no fixture on the helmet's inner surface projecting more than 2 mm into the helmet interior except occipital stabilizers and foam fit pads.	Pass
9	Impact Testing	
9.8	The peak acceleration of each impact shall not exceed 300 g.	Pass See annex 1

Test Conducted: Based on **ASTM F1446-15** Standard Test Methods for Equipment and Procedures Used in Evaluating the Performance Characteristics of Protective Headgear

Test Results: Details shown as following table

Clause	Test Method/Requirement	Result
12.2	Configuration The helmet shall be constructed to reduce or minimize injury to that portion of the head that is within an area above the test line and to remain on the wearer's head during impact.	Pass
12.3	Materials Materials known to cause skin irritation or disease cannot be used in the helmet. Lining materials, if used, may be detachable for washing. If hydrocarbons, cleaning fluids, paints, transfers or other additions will affect the helmet adversely, a warning shall be provided.	N/T
12.4	Labeling Each helmet shall contain labels with at least the following information, using terms and symbols commonly known and visible to users. The label(s) should be likely to remain on the helmet and legible throughout the intended design life of the helmet.	Pass



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Clause	Test Method/Requirement	Result
12.4.1	The number of the standard specification which the manufacturer certifies that it meets, including the two-digit version year appended to the number.	Pass
12.4.2	Model designation.	Pass
12.4.3	Name of manufacturer.	Pass
12.4.4	Month and year of manufacture.	Pass
12.4.5	A label that warns the user that no helmet can protect against all possible impacts and that for maximum protection the helmet must be fitted and attached properly to the wearer's head in accordance with the manufacturer's fitting instructions.	Pass
12.4.6	A label that warns the user that the helmet may, after receiving an impact, be damaged to the point that it is no longer adequate to protect the head against further impacts, and that this damage may not be visible to the user. This label should also state that a helmet that has sustained an impact should be returned to the manufacturer for competent inspection or be destroyed and replaced.	Pass
12.4.7	A label that warns the user that the helmet can be damaged by contact with common substances (for example, certain solvents, cleaners, hair tonics, etc.) and that this damage may or may not be visible to the user. This label should also list any recommended cleaning agents or procedures, or both.	Pass
12.4.8	Any other warnings, cautions, or instructions specified in the individual standard specification.	Pass
12.4.9	Each helmet shall have accompanying fitting and positioning instructions including graphic representation of proper positioning.	Pass
12.5	Projections	
12.5.1	Interior Projections Any internal rigid projections that can contact the wearer's head during impact shall be protected by some means of cushioning or force spreading. Visually inspect a single helmet form the set form the presence of any interior projections. Verify that if projections are present they are protected	Pass
12.6	Vision	
12.6.1	Peripheral Vision The helmet to be tested shall be placed on a reference headform the same size as the test headform to be used. The helmet shall be centered laterally and seated firmly on the reference headform with the preload ballast on the helmet, then positioned according to the HPI. Ensure that the brow is parallel to the basic plane. Measure the peripheral vision on a single sample of each helmet set. The peripheral vision is measured horizontally to each side of the midsagittal plane through Point K. The vision shall be unobstructed through an angle on either side of the midsagittal plane from Point K as identified in the individual performance standards.	Pass See annex 3

Remark: 1. N/A = Not applicable.

2. N/T = Not tested as per client's request.



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Impact attenuation instrument system check:

Systems check	Systems check		Drop Height VEL.		Milliseconds at		
, cyclome oncom		(cm)	m/sec	Peak G	150 g	200 g	
	1	158.9	5.42	401.5	2.63	2.21	
Pre-test	2	158.7	5.42	401.3	2.62	2.21	
	3	158.9	5.43	400.7	2.62	2.23	
Pretest ave	rage			401.4			
	1	158.8	5.43	401.5	2.62	2.22	
Post test	2	158.9	5.42	400.7	2.62	2.22	
	3	158.9	5.43	400.9	2.63	2.23	
Post test average			401.3				
Difference between pretest and post test averages			0.1g		not to exceed %		

Model: <u>CY-002(OMEGA)</u> Size: <u>54-57</u> cm Head form: <u>575</u> F2220 HPI: <u>45</u> mm

Annex-1: Impact energy attenuation test data

Ambient temperature at time of test: 22 ℃

Condition	Sample Mass (g)	Anvil	Impact Loc.	Velm/sec	Peak'G	Result
		Flat	Left front	6.15	203.4	Pass
A 11 . O 1111		Flat	Crown	6.16	204.4	Pass
Ambient Condition No.1	288	Edge	Right	3.72	174.9	Pass
140.1		Flat	Left	6.12	187.4	Pass
		Flat	Left rear	6.15	194.4	Pass
		Flat	Left front	6.14	197.4	Pass
Lligh Tampayatuwa	289	Flat	Crown	6.19	194.9	Pass
High Temperature No.2		Edge	Right front	3.75	277.4	Pass
140.2		Flat	Right rear	6.12	198.9	Pass
		Flat	Left	6.17	182.9	Pass
	294	Flat	Left	6.15	187.9	Pass
Low Tomporeture		Flat	Right rront	6.12	200.9	Pass
Low Temperature No.3		Edge	Left rear	3.73	76.0	Pass
110.0		Flat	Right	6.13	174.9	Pass
		Flat	Crown	6.16	192.4	Pass
		Flat	Left front	6.14	194.9	Pass
Make a leave and		Flat	Left	6.18	182.4	Pass
Water Immersion No.4	295	Edge	Right front	3.72	113.9	Pass
140		Flat	Right rear	6.15	191.9	Pass
		Flat	Crown	6.16	195.9	Pass



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Annex-2: Retention system strength test data

Ambient temperature at time of test: 22 ℃

Condition	Elongation (mm)	Result
High Temperature No.2	14.6	Pass
Low Temperature No.3	17.2	Pass
Water Immersion No.4	16.8	Pass

Annex 3: Peripheral vision test results:

Ambient temperature at time of test: 22 ℃

Positioning Index: 45 mm Peripheral Vision: >105 degrees

Annex 4: Position stability test results:

Ambient temperature at time of test: 22 ℃

Con	dition	Test description	Result
Ambient Co	ondition No.1	Hemet remained on the test headform after testing	Pass

Model: <u>CY-002(OMEGA)</u> Size: <u>58-61</u> cm Head form: <u>605</u> F2220 HPI: <u>44</u> mm

Annex-1: Impact energy attenuation test data

Ambient temperature at time of test: 22 ℃

Condition	Sample Mass (g)	Anvil	Impact Loc.	Velm/sec	Peak'G	Result
		Flat	Left front	6.14	199.4	Pass
Annalada na Li O a na ali'uli a na		Flat	Crown	6.15	205.9	Pass
Ambient Condition No.1	325	Edge	Right front	3.74	219.4	Pass
140.1		Flat	Right rear	6.16	161.9	Pass
		Flat	Left	6.15	197.4	Pass
	311	Flat	Left front	6.18	197.9	Pass
Lligh Tampayatuwa		Flat	Crown	6.15	200.4	Pass
High Temperature No.2		Edge	Left rear	3.74	61.5	Pass
1.0.2		Flat	Left	6.15	204.9	Pass
		Flat	Right rear	6.12	197.4	Pass
		Flat	Left	6.13	199.4	Pass
Low Temperature No.3		Flat	Crown	6.15	210.9	Pass
	318	Edge	Right front	3.76	215.9	Pass
		Flat	Left front	6.13	200.4	Pass
		Flat	Right rear	6.15	162.4	Pass



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Water Immersion No.4		Flat	Left	6.16	210.9	Pass
	319 Edg	Flat	Crown	6.17	214.4	Pass
		Edge	Left front	3.75	267.9	Pass
		Flat	Right rear	6.16	160.4	Pass
		Flat	Right front	6.14	198.4	Pass

Annex-2: Retention system strength test data

Ambient temperature at time of test: 22 ℃

Condition	Elongation (mm)	Result
High Temperature No.2	15.8	Pass
Low Temperature No.3	14.6	Pass
Water Immersion No.4	13.2	Pass

Annex 3: Peripheral vision test results:

Ambient temperature at time of test: 22 ℃

Positioning Index: 44 mm Peripheral Vision: >105 degrees

Annex 4: Position stability test results:

Ambient temperature at time of test: 22 ℃

Condition	Test description	Result
Ambient Condition No.1	Hemet remained on the test headform after testing	Pass



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Sample Photos:







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Label

Cádomotus Alpha-Y Aerospeed helmet for long track and short track ice speedskating (no ice hockey) Also certified as bicycle helmet.

TECHNICAL STANDARDS ASTM F-1849-07 EN1078:2012+A1:2012



SGS-CSTC Standards Technical Services Co., Ltd.

Instruction

The important thing to remember in that the helmet The important thing to remember in that the helinst fills simply. Figure bits 18. A firmwall of beginning, you need to tighten the stress educatives. The stress should be pushed that they do not over the each and that the lesson in alway face the participe when connectly Elled.

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Caring for your helmet

Clean the headges with mild soap and water onle. The and of any selverts, paints or decale can course damage to the hattest and make it restlective in the result of an accident.

Keep helmet out of extreme head

evicate at teacope fill agrange at the steriles executed to property and storage executes and 22 20 problems. lage can exceed this on very hot days fresh demages between with have language deligrated areas where the factors agreem housely after uneven. If samaged, helicets should be destroyed add replaced immediately. Important Information

impactant innormation. The headquer is designed to about the energy of a time by paties estimation or demage their Zven though such merage may no be visible. The heavest should be instituyed an replaced, if it subjected to a severe impact. If it subjected to a severe impact, uncommonly under a severe impact, uncommonly under a severe impact. In ordinario, owners accidented regular that for the common the provention by days before Demonstration of the first of insular form one for several case.

on the type of depart even vey low speeds can result in a scient frond injury or bitally. Always note with extreme raction and he cure to read this manual thoroughly.

Helmets warning

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OWNERS MANUAL

PLEASE READ CAREFULLY BEFOREUSING

This believed meets

ASTM F-1849-07 EN1078 2012+A1: 2012

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Instruction

PLEASE READ CAREFULLY BEFORE USING YOUR NEW HELMET

provides believed in whether are or off permanents in a confirmation whether are or off the result. To result proper use at this horses, furnituation parent with its features, ft, and care to previous reacting through the minimal before wearing your less furnitual.

Protection and Ventilation

Protection and Ventilation
The oder state above the termed to be rated over
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and over the brow for mainteen pooling.

Retention system:
The sports battly hernet uses a submirities as succeeding to sample and can be builted and antached without changing the objectives. The ettope must be sungly and evenly tensored. Place the historical filmly on your bead and faulen

To highber the often strap, hold the buckle with one hand. Then gut the excess along in derough (See Diagram A)



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The office to leave the hord, produce the cha-vition and lighten the neet withon To check for paper terminal, pur on the helmen and finish the faulos. Open your mouth, you should lead the strong pulling against your other. Their attempt to gail the helmen of the faul or and if the feather comes off, to increase strop tanance

or becomen excessively. It allowed not be possible to remove the besides without unfounding the Adjust the bigothess of the size adjustment system

y turning the basis oldowine to tightness and introductions to looser.

NOTE: Please chack adjustment every time



DIAGRAMICI



Front test line for (575) F2220 head form





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Side test line for (575) F2220 head form



Rear test line for (575) F2220 head form





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Front test line for (605) F2220 head form Side test line for (605) F2220 head form





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Rear test line for (605) F2220 head form



End of Report



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