

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	Trial drop	Drop Height (cm)	VEL. m/sec	Milliseconds at		
				Peak G	150 g	200 g
Pre-test	1	158.9	5.42	401.5	2.63	2.21
	2	158.7	5.42	401.3	2.62	2.21
	3	158.9	5.43	400.7	2.62	2.23
Pretest average		--	--	401.4	--	--
Post test	1	158.8	5.43	401.5	2.62	2.22
	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	Difference not to exceed 5%	

Model: CY-002(OMEGA)

Size: 54-57 cm

Head form: 575 F2220

HPI: 45 mm

Annex-1: Impact energy attenuation test data

Ambient temperature at time of test: 22 °C

Condition	Sample Mass (g)	Anvil	Impact Loc.	Vel.-m/sec	Peak'G	Result
Ambient Condition No.1	288	Flat	Left front	6.15	203.4	Pass
		Flat	Crown	6.16	204.4	Pass
		Edge	Right	3.72	174.9	Pass
		Flat	Left	6.12	187.4	Pass
		Flat	Left rear	6.15	194.4	Pass
High Temperature No.2	289	Flat	Left front	6.14	197.4	Pass
		Flat	Crown	6.19	194.9	Pass
		Edge	Right front	3.75	277.4	Pass
		Flat	Right rear	6.12	198.9	Pass
		Flat	Left	6.17	182.9	Pass
Low Temperature No.3	294	Flat	Left	6.15	187.9	Pass
		Flat	Right rront	6.12	200.9	Pass
		Edge	Left rear	3.73	76.0	Pass
		Flat	Right	6.13	174.9	Pass
		Flat	Crown	6.16	192.4	Pass
Water Immersion No.4	295	Flat	Left front	6.14	194.9	Pass
		Flat	Left	6.18	182.4	Pass
		Edge	Right front	3.72	113.9	Pass
		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 °C

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 °C

Positioning Index: 45 mm

Peripheral Vision: >105 degrees

Annex 4: Position stability test results:

Ambient temperature at time of test: 22 °C

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

Model: CY-002(OMEGA)

Size: 58-61 cm

Head form: 605 F2220

HPI: 44 mm

Annex-1: Impact energy attenuation test data

Ambient temperature at time of test: 22 °C

Condition	Sample Mass (g)	Anvil	Impact Loc.	Vel.-m/sec	Peak'G	Result
Ambient Condition No.1	325	Flat	Left front	6.14	199.4	Pass
		Flat	Crown	6.15	205.9	Pass
		Edge	Right front	3.74	219.4	Pass
		Flat	Right rear	6.16	161.9	Pass
		Flat	Left	6.15	197.4	Pass
High Temperature No.2	311	Flat	Left front	6.18	197.9	Pass
		Flat	Crown	6.15	200.4	Pass
		Edge	Left rear	3.74	61.5	Pass
		Flat	Left	6.15	204.9	Pass
		Flat	Right rear	6.12	197.4	Pass
Low Temperature No.3	318	Flat	Left	6.13	199.4	Pass
		Flat	Crown	6.15	210.9	Pass
		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	319	Flat	Left	6.16	210.9	Pass
		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 °C

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 °C

Positioning Index: 44 mm

Peripheral Vision: >105 degrees

Annex 4: Position stability test results:

Ambient temperature at time of test: 22 °C

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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Side view	



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Back view	
Top view	



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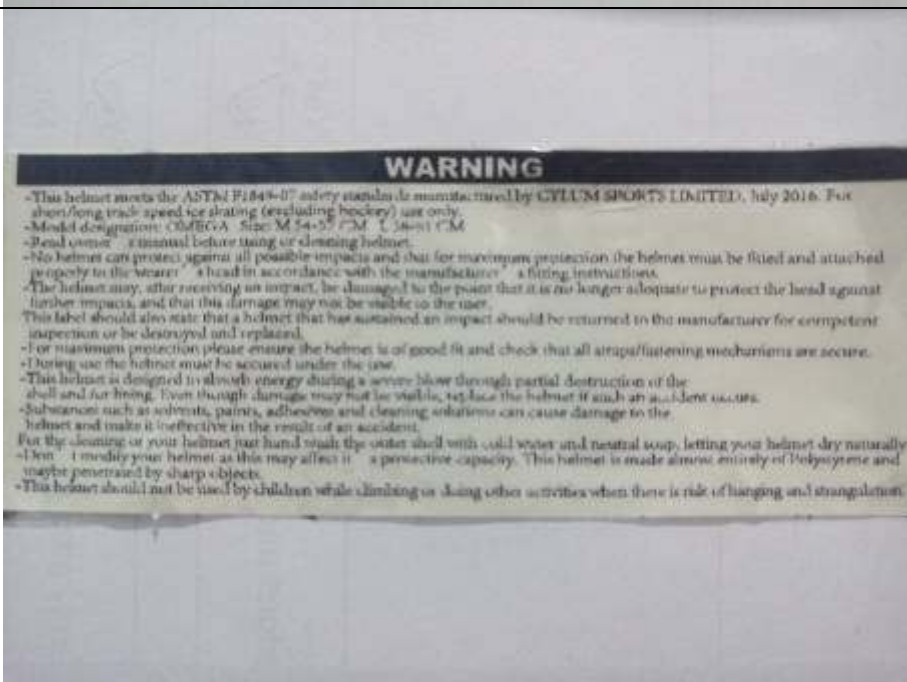
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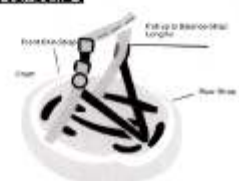
Label	Cádomotus Alpha-Y Aerospeed helmet for long track and short track ice speedskating (no ice hockey) Also certified as bicycle helmet. TECHNICAL STANDARDS EN ASTM F-1849-07 EN1078:2012+A1 2012 CE SGS-CSTC Standards Technical Services Co., Ltd.
Instruction	Final check The important thing to remember is that the helmet fits snugly. If you lean far forward or backward you need to tighten the strap adjustment. The straps should be positioned that they do not cover the ears and that the buckle is always fork the jawline when correctly fitted. Skaters should always try different sizes and choose the size which feel secure and comfortable on the head. It is important for the helmet to fit snugly on your head and must be fastened to provide maximum protection. All adjustments should be checked each time the helmet is worn, making sure it fits snugly at all times. Caring for your helmet Clean the headgear with mild soap and water only. The use of any solvents, paints or dyes can cause damage to the helmet and make it ineffective in the result of an accident. Keep helmet out of extreme heat helmets will be damaged if exposed to temperatures exceeding 65 °C. Dark vehicles and storage bags can exceed this on very hot days. Heat damages helmets will have uneven disfigured areas where the texture appears bubbly and uneven. If damaged, helmets should be scrapped and replaced immediately. Important information The headgear is designed to absorb the energy of a blow by partial destruction or damage itself. Even though such damage may not be visible, the helmet should be destroyed or replaced, if it subjected to a severe impact. Unfortunately, some accidents result in head injury that cannot be prevented by any helmet. Depending on the type of impact, even very low speeds can result in a serious head injury or death. Always ride with extreme caution and be sure to read this manual thoroughly. Helmets warning Helmet for pedal cyclists, skateboards or roller skaters. It is not intended for and will not provide adequate, safe protection if used during motorsport or motor use. No helmet can protect the wearer against all unforeseeable impacts. However, for maximum protection, the helmet must fit well and all retention straps must be securely fastened. The helmet may not protect the wearer if any of the original components are modified or removed. The helmet should not be adapted for the purpose of fitting accessories other than in accordance with these instructions for use. HELMET OWNERS MANUAL PLEASE READ CAREFULLY BEFORE USING YOUR NEW HELMET This helmet meets ASTM F-1849-07 EN1078:2012+A1: 2012 CE ASTM



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Instruction	PLEASE READ CAREFULLY BEFORE USING YOUR NEW HELMET The sports safety helmet you have just purchased provides protection, whether on or off the road. To ensure proper use of this helmet, familiarize yourself with its features, fit and care by carefully reading through this manual before wearing your new helmet. Protection and Ventilation The outer shell allows the helmet to be used one of the lightest helmets, while providing excellent durability and strength. The multiple vents with rear air channels draw the air through the helmet and over the brow for maximum cooling. Retention system This sports safety helmet uses a quick-release buckle that is simple and can be buckled and attached without changing the adjustment. The straps must be snug and evenly tensioned. Place the helmet firmly on your head and fasten the buckle. Retain which strap is loose. Tighten the loose strap after removing the helmet. To tighten the chin strap, hold the buckle with one hand. Then pull the excess strap in through. (See Diagram A). DIAGRAM A  To tighten the chin strap, pull excess from the rest of strap 2. Hold the helmet with one hand. With the other hand, hold the strap where they pass under your chin. Then pull from side to side to tension the length of all four straps. (See Diagram B). The helmet must sit firmly and level on your head. (See Diagram C) To lower the front of the helmet to cover your forehead, tighten the chin strap and loosen the rear strap. To raise the front, loosen the chin strap. To raise the front, loosen the chin strap and tighten the rear strap. To check for proper tension, put on the helmet and fasten the buckle. Open your mouth, you should feel the strap pulling against your chin. Then attempt to pull the helmet off the top or rear of the helmet comes off to increase strap tension. The helmet should not be able to tilt forward or backward excessively. It should not be possible to remove the helmet without unbuckling the buckle. Adjust the tightness of the size adjustment system by turning the knob clockwise to tighten and anti-clockwise to loosen. NOTE: Please check adjustment every time this helmet is worn. DIAGRAM B  DIAGRAM C 
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End of Report



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