

**ICS<sup>®</sup>**  
**INC. LABORATORIES**

Test Report # T9962-01-2 Issue 1  
NOCSAE (ND) 029-12m12 Custom R&D  
BCL, Inc.  
Various Styles – Baseball Cap Liners/ Caps  
23 July 2015



Approved by:

David Pett  
Head Protection & Athletic Equipment  
Laboratory Manager

Prepared by:

Shelley Brady  
Head Protection & Athletic Equipment  
Laboratory Administrator

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 2189 King Road  
 King City, Ontario L7B 1G3  
 Canada

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**Objective:**

Custom R&D testing to National Operating Committee on Standards for Athletic Equipment (NOCSAE) per client's specifications.

NOCSAE (ND) 029-12m12 "Standard Performance Specification for Newly Manufactured Baseball/ Softball Fielder's Headgear"

**Samples:**

Description	Qty	Size	Date Received	Sample ID
BCL (D30) Ball Cap Liner without Temple Protection	1	N/A	26 June 2015	2A-x
ISO Blox Skull Cap Head Protector	1	M		2C-1
SportzShield Enforcer Head Protector	1	M		2D-1
Sports Guard Baseball Insert Head Protector	1	OSFA		2E-1
Unequal Dome Baseball Hat Liner Head Protector	1	N/A		2F-1
Crashe Head Protector Pads	4	N/A	08 July 2015	2G-1
Standard MLB Caps	2	8	26 June 2015	N/A

**Procedures:**

Testing protocols in accord with good laboratory practice were employed unless otherwise specified, for all tests.

Testing procedures were followed as specified within NOCSAE (ND) 029-12m12. A 3" MEP calibration pad was used to calibrate the headform. A cannon apparatus as defined in NOCSAE (ND) 021-12m14 was used to perform projectile impacts.

Samples were stored for a minimum period of 4 hours at a constant temperature of 72°F ± 5°F (22°C ± 2°C) prior to testing.

**Specifications:**

Softballs meeting the requirements of NOCSAE (ND) 029-12m12, Clause 5.8.  
 Baseballs meeting the requirements of NOCSAE (ND) 029-12m12, Clause 5.9.

**Equipment:**

ICS Custom Cannon Test Apparatus  
 NOCSAE Headforms and MEP Pads

**Assessment Summary:**

Date Tested: 15 July 2015 – 16 July 2015  
 Test Performed By: Pete Turpin – Laboratory Technician

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**Results:**

Sample ID	Location	Ball Type	Velocity (mph)	Severity Index
2A-3 BCL Ball Cap Liner	Front	Softball	60.5	513
2A-1 BCL Ball Cap Liner	Front	Baseball	66	1125
2C-1 ISO Blox Skull Cap	Front	Baseball	66	628
2D-1 SportzShield Enforcer Cap	Front	Baseball	66	2417
2E-1 Sports Guard Baseball Insert	Front	Baseball	66	2622
2F-1 Unequal Dome Baseball Hat Liners	Front	Baseball	66	2681
2G-1 Crashe Head Protector Pads	Front	Baseball	66	1296
MLB Cap on Bare Headform	Front	Baseball	66	2904
Specifications:				≤ 1200

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**Pre-System Check**

Location	Drop Velocity (ft/s)	Severity Index
Front Boss	9.495	512
	9.480	507
	9.527	513

NOCSAE Headform Size Used: Large

**Post-System Check**

Location	Drop Velocity (ft/s)	Severity Index
Front Boss	9.544	500
	9.496	497
	9.558	496

NOCSAE Headform Size Used: Large

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15. Certain work may be subcontracted to ICS authorized affiliate laboratories as required or applicable. Client will be made aware of subcontracted work.
16. 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.
17. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by Client.
18. 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 of conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such person.
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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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