

**STANDARD PERFORMANCE
SPECIFICATION FOR
NEWLY MANUFACTURED
BASEBALL/SOFTBALL CATCHER'S
HELMETS WITH FACEGUARD**

NOCSAE DOC (ND) 024 - 24

Prepared By

NOCSAE®

**NATIONAL OPERATING COMMITTEE
ON STANDARDS FOR ATHLETIC EQUIPMENT**

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Scope

- 1.1. This standard specification establishes performance requirements for new baseball/softball catcher's helmets with attached faceguard as supplied by manufacturers. The requirements of this standard shall be subject to Level 3 compliance criteria unless otherwise stated herein.
- 1.2. **All testing and requirements of this standard specification must be in accordance with NOCSAE DOC 001 and NOCSAE DOC 021 except where modified herein.**
- 1.3. *This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

- 2.1. NOCSAE DOC (ND) 001: *Standard Test Method and Equipment Used in Evaluating the Performance Characteristics of Headgear/Equipment*
- 2.2. [NOCSAE DOC \(ND\) 015: Standard Test Method and Specification Used in Evaluating the Corrosion Characteristics and Effects on Metallic Hardware Disassembly.](#)
- 2.3. NOCSAE DOC (ND) 021: *Standard Projectile Impact Test Method and Equipment Used in Evaluating the Performance Characteristics of Protective Headgear/Projectiles*

3. Test Sample Size

- 3.1. See Sections 6 and 11, NOCSAE DOC 001, for QC/QA protocol testing.
- 3.2. **For helmets intended for use in both baseball and softball (BB+SB Helmets),** at least seven (7) of each helmet model in each of the critical sizes must be tested.
- 3.3. **For helmets intended for use in only softball (SB Only), at least five (5) of each helmet model in each of the critical sizes must be tested.**
- 3.4. Two of the submitted helmets shall be drop tested, two of the submitted helmets shall be impacted with a softball, one of the submitted helmets shall be impacted with a baseball and all ~~seven~~ of the helmets shall be used to test the attached faceguards.

4. Helmet Preparation

- ~~4.1. See Section 10 and 12, NOCSAE DOC 001.~~
- 4.2. [Helmets shall be tested complete, in the condition as offered for sale.](#)
- ~~4.3. Helmets used for testing shall be selected in a random manner.~~
- 4.4. [Helmets shall be tested on each size headform that they fit. See Section 20, NOCSAE DOC 001. \(Projectile test only\)](#)

- 4.5. To obtain a reasonable fit (as determined by the test technician) for testing purposes, helmets larger than size 7 5/8 **may** require "shim" pads to be inserted between the largest NOCSAE headform and the interior of the helmet, opposite from the impact site.
- 4.6. Helmets of a given model with a size smaller than 6 5/8 **may** not fit the smallest NOCSAE headform. In that event, testing of that size is waived so long as the other sizes of that model have been tested and meet all requirements.
- 4.7. Faceguards: During all testing the helmets must be tested with the faceguard (~~mask~~) attached and shall be mounted on a catcher's helmet according to the manufacturer's instructions
- 4.8. Conditioning Environments:
 - 4.8.1. Ambient Temperature: Expose product to conditioned temperature of 72°F ± 3° F for a minimum of four hours.
 - 4.8.2. High Temperature: Expose product to conditioned temperature of 115°F ± 3°F (46° ± 1° C) for at least four hours and a maximum of twenty-four (24) hours.
 - 4.8.3. Low Temperature: Expose product to conditioned temperature of 32° +0/-3°F (0°C +0/-1°C) for at least four hours.
 - 4.8.4. When performing conditioned environment temperature testing, the first impact shall occur between the 1st and 2nd minute after removing the sample from the conditioning environment. The second impact shall occur 75 seconds (± 15 sec) after the first impact. If the sample cannot be tested within these time constraints, the sample must be returned to the conditioning environment for a minimum of 3 minutes for each minute the sample was out of the conditioning environment. Conditioning must be complete before testing can resume on that sample.

5. Impact Attenuation Tests

5.1. General

- 5.1.1. The high temperature impacts are to be conducted on the same two (2) helmets upon which the ambient temperature tests were performed

5.2. Drop Tests

- 5.2.1. Impact locations are described in Section 19, NOCSAE DOC 001 and described in Figure 1.
- 5.2.2. Two of the submitted helmets shall be impacted in accordance with Table 1 and as depicted in Figure 2 onto steel half cylinder described in Figure 3.

Note: Steel half cylinder anvil can be oriented on the anvil base in any manner the technician chooses so long as the mounting bolts can be installed. The anvil must be positioned such that the first point of contact of the helmet is at the approximate center of the steel half cylinder anvil.

- 5.2.2.1. Impacts must be conducted in sequence from the lowest drop velocity through the highest for each location specified in Table 1.
- 5.2.2.2. The high temperature condition impacts must be done after the ambient temperature impacts.

TABLE 1
Drop Test Impact Schedule
Velocity - ft/s (m/s) +3%

Conditioning Environment	IMPACT VELOCITY FT/S (M/S)	RIGHT SIDE	RIGHT REAR BOSS	REAR	RANDOM
Ambient Temperature	13.89 (4.23)	X	X	X	X
	13.89 (4.23)	X	X	X	X
High Temperature	13.89 (4.23)	X			

NOTE: The high temperature condition impacts must be done after the ambient temperature impacts.

5.3. Helmet Projectile Tests

- 5.3.1. The softball(s) used shall weigh 5 ⁷/₈ to 6 ¹/₈ ounces (166 - 174 grams), have a circumference of 10.875 - 11.125 inches and have a C-D at .25 inches of 300 – 400 lbs.
- 5.3.2. The baseball(s) used shall weigh 5 - 5 ¹/₄ ounces (142 – 149 grams), have a circumference of 9 – 9.25 inches, and have a C-D at .25 inches of 200 – 300 lbs and be of the construction specified and used by Major League Baseball.
- 5.3.3. Impact locations are described in Section 19, NOCSAE DOC 001 and described in Figure 1.
- 5.3.4. The head model will be positioned with its impact site located within 24 inches (610 mm) from the end of the muzzle (or from the point at which the ball is released).
- 5.3.5. Two of the untested submitted sample helmets shall be impacted with a softball in accordance with Table 2 and depicted in Figure 4.
- 5.3.5.1. The high temperature condition impacts must be done after the ambient temperature impacts.
- 5.3.6. One of the untested submitted sample helmets shall be impacted at ambient condition with a baseball in two locations. At least one of the locations shall be the location that exhibited the highest resultant Severity Index reading of the two sample helmets when impacted at ambient condition with a softball. The other location shall be selected to exploit any location on the helmet within the specified impact area (Figure 1) that may result in a failure during the impact test. The impact velocity with a baseball shall be 60 ± 3% MPH.

TABLE 2
Projectile Impact Schedule
Velocity - MPH (m/s) \pm 3%

Sample #	Conditioning Environment	Projectile	IMPACT VELOCITY MPH (M/S)	RIGHT SIDE	RIGHT REAR BOSS	REAR	RANDOM
1	Ambient Temperature	Softball	55 (24.6)	X	X	X	X
1	High Temperature	Softball	55 (24.6)	X			
2	Ambient Temperature	Softball	55 (24.6)	X	X	X	X
2	High Temperature	Softball	55 (24.6)	X			
3	Ambient Temperature	Baseball	60 (26.8)	Chose the location that resulted in the highest SI from samples 1 and 2 at ambient condition			X

NOTE: ~~The high temperature condition impacts must be done after the ambient temperature impacts.~~

5.4. Faceguard Projectile Tests:

5.4.1. See Section 5, NOCSAE DOC 021.

5.4.2. ~~Five of~~ The **BB + SB** sample helmets with attached faceguards shall be impacted with ~~a baseball~~ **the appropriate ball one time each** in accordance with Table 3. **SB Only sample helmets with attached faceguards shall be impacted with a softball in accordance with Table 4.** No submitted sample shall be impacted more than once. The impact locations are described below in Tables 3 **and 4** and **depicted in** Figure 5.

5.4.2.1. Directly in front with the headform and helmet in an upright (vertical) position. [Barrel (line of ball travel) shall be perpendicular to the Coronal plane]. See Figure 5a.

5.4.2.2. With the headform and helmet in an upright (vertical) position and rotated away from the Midsagittal plane at a 45° angle from the direction of impact. See Figure 5b.

5.4.2.3. Random location: The headform may be located in any manner that allows the impact point to be within the “no contact area” as defined in Figure 6, attached. The center of ball contact must be at

the edge of, or within the “no contact” area.

5.4.3. Impact targeting options

- 5.4.3.1. At least one impact in section 5.4.2 shall be at the center of the widest opening in the faceguard while in the chosen position.
- 5.4.3.2. At least one impact in section 5.4.2 shall be aimed at the material structure of the faceguard while in the chosen position
- 5.4.3.3. An impact in section 5.4.2 shall be selected to exploit any location on the faceguard that may result in a failure during the impact test.

Note: It is up to the test technician to determine which of the impact locations in 5.4.2 can be exploited by the Targeting Options in section 5.4.3.

5.4.4. Two submitted samples are conditioned to ~~cold~~ **low** temperature and impacted in any two of the three locations in section 5.4.2 and utilizing any of the targeting options in section 5.4.3.

5.4.4.1. The low temperature condition impacts must be done after the ambient temperature impacts.

~~5.4.5. Two of the submitted sample helmets with attached faceguards shall be impacted with a softball one time each. No submitted sample shall be impacted more than once. These impact location(s) and condition(s) shall be selected to exploit any area that may result in a failure during the impact test from any angle at any orientation. Each guard may be impacted in different locations. The impact velocity with the softball shall be 70 ± 3% MPH and the test conditions shall be either ambient or low temperature; the temperature need not be the same for each softball impact.~~

5.4.6. The head model will be positioned with its impact site located within 24 inches (610 mm) from the end of the muzzle (or from the point at which the ball is released).

TABLE 3
Projectile Impact Schedule
Velocity - MPH (m/s) ± 3%

Sample #	Projectile	Conditioning Environment	IMPACT VELOCITY MPH (M/S)	FRONT (90°)	45° ANGLE	RANDOM
1	Baseball	Ambient Temperature	70 (31)	X		
2	Baseball	Ambient Temperature	70 (31)		X	
3	Baseball	Ambient Temperature	70 (31)			X
4	Baseball	Low Temperature	70 (31)	X		

5	Baseball	Low Temperature	70 (31)		X	
6	Softball	Ambient or Low Temp	70 (31)			X
7	Softball	Ambient or Low Temp	70 (31)			X

TABLE 4
SOFTBALL ONLY HELMETS - Projectile Impact Schedule
Velocity - MPH (m/s) \pm 3%

Sample #	Projectile	Conditioning Environment	IMPACT VELOCITY MPH (M/S)	FRONT (90°)	45° ANGLE	RANDOM
1	Softball	Ambient Temperature	70 (31)	X		
2	Softball	Ambient Temperature	70 (31)		X	
3	Softball	Low Temperature	70 (31)	X		
4	Softball	Low Temperature	70 (31)		X	
5	Softball	Ambient or Low Temp	70 (31)			X

6. Test Requirements

- 6.1. Helmet repositioning during testing is anticipated. Any structural changes or other changes that take place during impact testing which result in unrestorable loosening of the fit (see Section 20, NOCSAE DOC 001) shall be cause for failure. In the case of helmets “shimmed” as per section 4.2, the replacement or repositioning of shims is allowed.
- 6.2. The peak severity index of any impact shall not exceed 1200 SI.
- 6.3. A passing helmet model is able to withstand all impacts at an acceptable SI and meets all other requirements when tested in accordance with this performance specification.
- 6.4. When tested in accordance with section 5.4, no contact to the ocular area is ever permitted. Limited contact to specific areas of the headform is allowed (limited contact area). *Contact occurring to the limited contact area must be restricted to those non-structural components of the headgear that are designed/intended to rest on or come in contact with the wearers face. (See Figure 6).
- 6.4.1. Verification of ball contact: For verification of ball or protector contact with the face, cover the entire facial area (limited contact/ocular area) from the frontal bone superiorly to the mandible inferiorly with Pressure Indicator paste. Contact of either ball or protector with any part of the face will leave

♦ This requirement shall be subject to Level 2 compliance criteria.

paste at the point of contact and proof of contact on the headform. Inspect thoroughly both the ball and the protector to determine if they contain residue of paste. Also inspect the headform ocular area for evidence of contact.

7. Construction

- 7.1. General: Headgear is worn on the head in an effort to reduce or minimize injury to that portion of the head within the specified area of coverage. Headgear shall be constructed to reduce the risk of injury to the wearer and to remain on the wearer during impact. Optional devices fitted to the headgear shall be designed so they are unlikely to cause injury during use. For example: wire face protectors must not be designed with weld junctions and/or wire terminus ends in the ocular area, such that in the event of a weld separation, the wire ends could come into contact with the ocular area.
- 7.2. The protective equipment must survive all test protocols substantially intact and ready for use.
- 7.3. Projections: Internal rigid projections that may contact the wearer's head during impact shall be covered to reduce the likelihood of injury. Pressure sensitive film or electronic methods may be employed to evaluate the transmitted force of internal projections suspected to be a likely source of injury; such forces shall be limited to a maximum of 750 lbs/in².
- 7.4. Metallic Hardware as defined in ND 001 shall meet the requirements of ND 015.

8. Materials

- 8.1. Materials used in the headgear/equipment should be durable and resistant to exposure to sun, rain, cold, dust, vibration, perspiration, and products likely to be applied to the skin or hair. If hydrocarbons, cleaning fluids, paints or transfers/decals or other additions may affect the equipment adversely, a warning shall be provided.

9. Labels and Warnings

- 9.1. Each helmet shall be permanently and legibly labeled or marked in a manner such that the following information can be easily read and is not obscured in any manner.
 - 9.1.1. Name of Manufacturer
 - 9.1.2. Model Designation
 - 9.1.3. Size
- 9.2. Each helmet shall be permanently and legibly labeled or marked in a manner such that the following additional information can be easily read without removing any permanent component. The following labels shall contain a signal word which shall not be obscured in any manner:
 - 9.2.1. A label that warns the user that no helmet can protect against all possible impacts and the protective device must be fitted and attached properly in accordance with the manufacturer's fitting instructions.
 - 9.2.2. A label that warns the user that the helmet can be damaged by accidental, incidental, or intentional contact with common substances (for example, certain solvents, cleaners, hair treatments, 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.

~~9.3. See Section 9, NOCSAE DOC-001~~

- 9.4. Each helmet shall have permanently affixed to the exterior of the shell a clearly legible statement which can be easily read without removal of any decal tape, other temporary material or permanent part, which contains language which effectively communicates to the purchaser and user the following information, using the same or similar language:

WARNING: DO NOT USE THIS HELMET IF THE SHELL IS CRACKED OR DEFORMED; OR IF THE INTERIOR PADDING IS DETERIORATED. SEVERE HEAD OR NECK INJURY, INCLUDING PARALYSIS OR DEATH MAY OCCUR TO YOU DESPITE USING THIS HELMET. NO HELMET CAN PREVENT ALL HEAD INJURIES OR ANY NECK INJURIES A PLAYER MIGHT RECEIVE WHILE PARTICIPATING IN BASEBALL OR SOFTBALL.

- 9.5. Helmets offered with softball only faceguards shall have a label permanently affixed to the upper rear quadrant of the exterior of the shell that states "SOFTBALL ONLY".

9.5.1. The label be a minimum of 1 inch in width and ½ inch in height at its extents and the background shall be optic yellow in color.

9.5.2. The label shall not be obscured in any manner.

9.5.3. When fitted onto the headform according to the manufacturer's fitting instructions, the upper rear quadrant shall be defined as the section of the helmet that is bounded by the area created by the following:

9.5.3.1. Projecting the headform coronal plane vertically

9.5.3.2. Projecting the headform's reference plane horizontally

9.5.3.3. Connect the projected coronal and reference planes with a line that is two inches to the left of the helmet's midline and a line that is two inches to the right of the helmet's midline.

- 9.6. Softball only faceguards must carry the following additional warning permanently affixed to the protector:

WARNING: NOT FOR USE WITH BASEBALLS. USE ONLY WITH 11 INCH SOFTBALLS OR LARGER.

- 9.7. Softball only faceguards shall have a warning that is attached to the protector in the eye opening in such a way that the protector is functionally unusable until the warning is removed. This warning shall convey the following information and be visible without removal of the warning:

READ THIS BEFORE USE:

WARNING: NOT FOR USE IN BASEBALL. THIS PROTECTOR IS TO BE USED ONLY WITH 11 INCH SOFTBALLS OR LARGER. DO NOT USE THIS

PROTECTOR FOR BALLS SMALLER THAN 11 INCHES OR ANY BASEBALL.

- 9.8. Each helmet that is offered to the marketplace without a faceguard shall also have permanently affixed to the exterior of the shell a clearly legible statement which can be easily read without removal of any decal tape, other temporary material or permanent part, which contains language which effectively communicates to the purchaser and user the following information, using the same or similar language:

WARNING: THIS HELMET DOES NOT COMPLY WITH NOCSAE REQUIREMENTS UNLESS A FACEGUARD SPECIFICALLY LISTED BY THE MANUFACTURER IS ATTACHED.

- 9.9. A permanent and legible label or mark that denotes the month and year of manufacture that can be easily read without removing any permanent component. If this mark or label requires a "code" to determine month and year, such code shall be made available upon request.
- 9.9.1. A label that denotes the first intended season of use may be used.
- 9.10. Headgear that are not to be recertified as mandated by the manufacturer shall bear a permanent and legible warning on the exterior of the headgear stating the following:
1. This headgear shall not be recertified.
 2. The life of certification, which shall be no longer than 5 years from the date of manufacture.
- 9.11. Manufacturers of headgear intended to be recertified shall have a recertification interval provided by the manufacturer
- 9.12. Fitting instructions shall be provided including any attachment instructions for authorized accessories.
- 9.13. A permanent, exact replica of this mark must appear legibly on the exterior of the helmet shell



NOTE: You must have an executed, valid license agreement with NOCSAE to use any of the NOCSAE marks at any time. NOCSAE, the NOCSAE marks, and the National Operating Committee on Standards for Athletic Equipment are registered marks and the exclusive property of the Committee. Use of the marks in any manner is prohibited without prior written permission of the NOCSAE Board of Directors.

- 9.14. Any faceguard that includes a stand-alone padding system shall:
- 9.14.1. Be accompanied by instructions that specify which catcher's helmets may be used with that particular faceguard. This list of helmets must be denoted by brand name and model name or number.

- 9.14.2. Have permanently affixed to it a clearly legible statement which effectively communicates to the end user the following information, using the same or similar language:

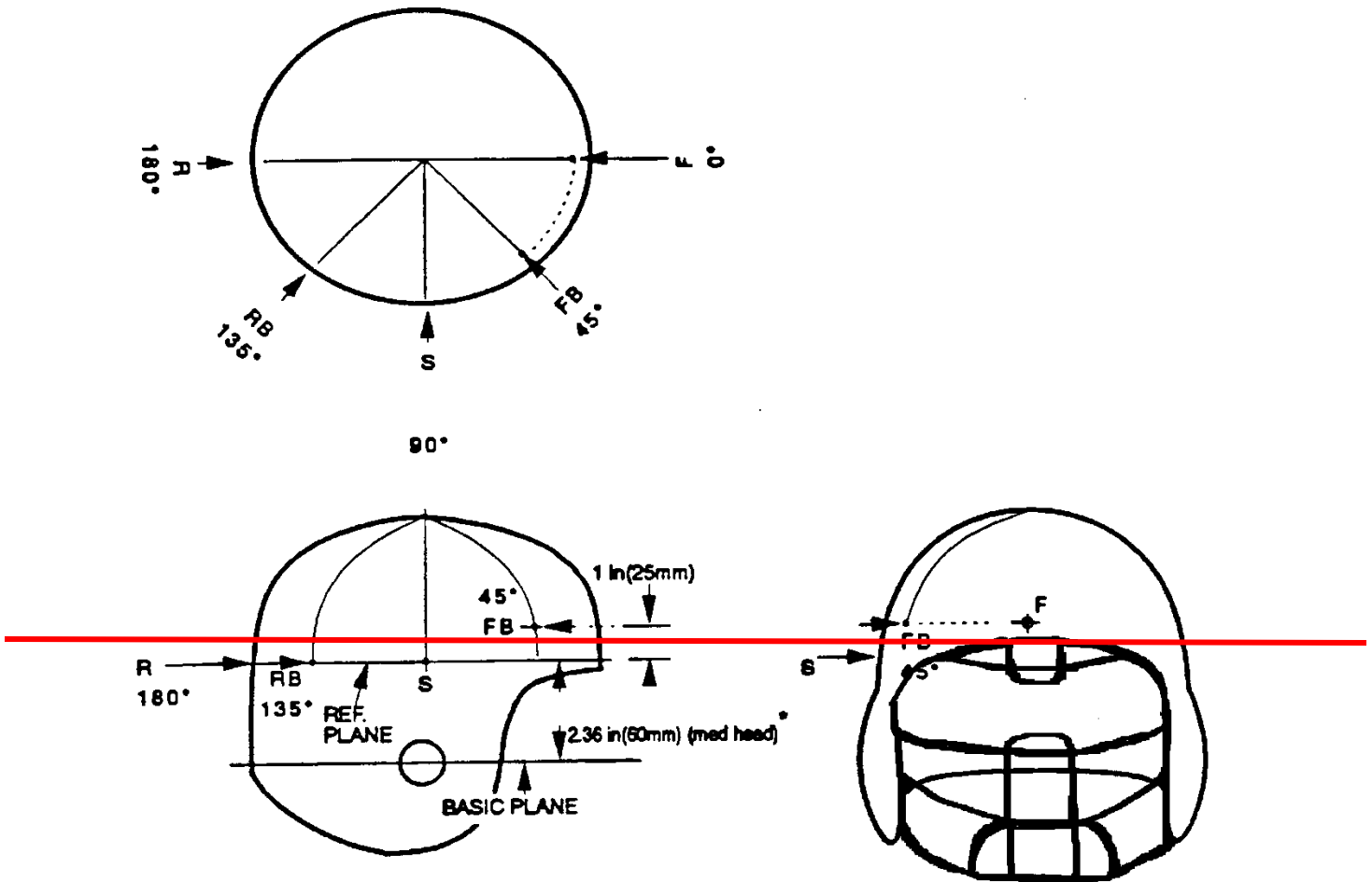
WARNING: THIS FACEGUARD DOES NOT COMPLY WITH NOCSAE REQUIREMENTS UNLESS IT IS ATTACHED TO A HELMET SPECIFICALLY LISTED BY THE MANUFACTURER AND WHICH BEARS THE NOCSAE CATCHER'S MARK.

This standard is subject to revision at any time by the responsible technical authority and must be reviewed every five years and if not revised either reapproved or withdrawn. Your comments are invited either for revision, modification or creation of additional standards and should be addressed to NOCSAE's Executive Director. Check the web at www.nocsae.org to obtain the latest version of a standard.

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PROPOSED

**CATCHER'S HELMET
IMPACT LOCATIONS**



* For the small headform the REFERENCE PLANE is 2.16 inches above the BASIC PLANE.
For the large headform the REFERENCE PLANE is 2.48 inches above the BASIC PLANE.

The random location may be selected from any point within the allowed impact area but not closer than 1 inch (25 mm) from the edge of the helmet nor less than 1 inch (25 mm) from any previous impact.

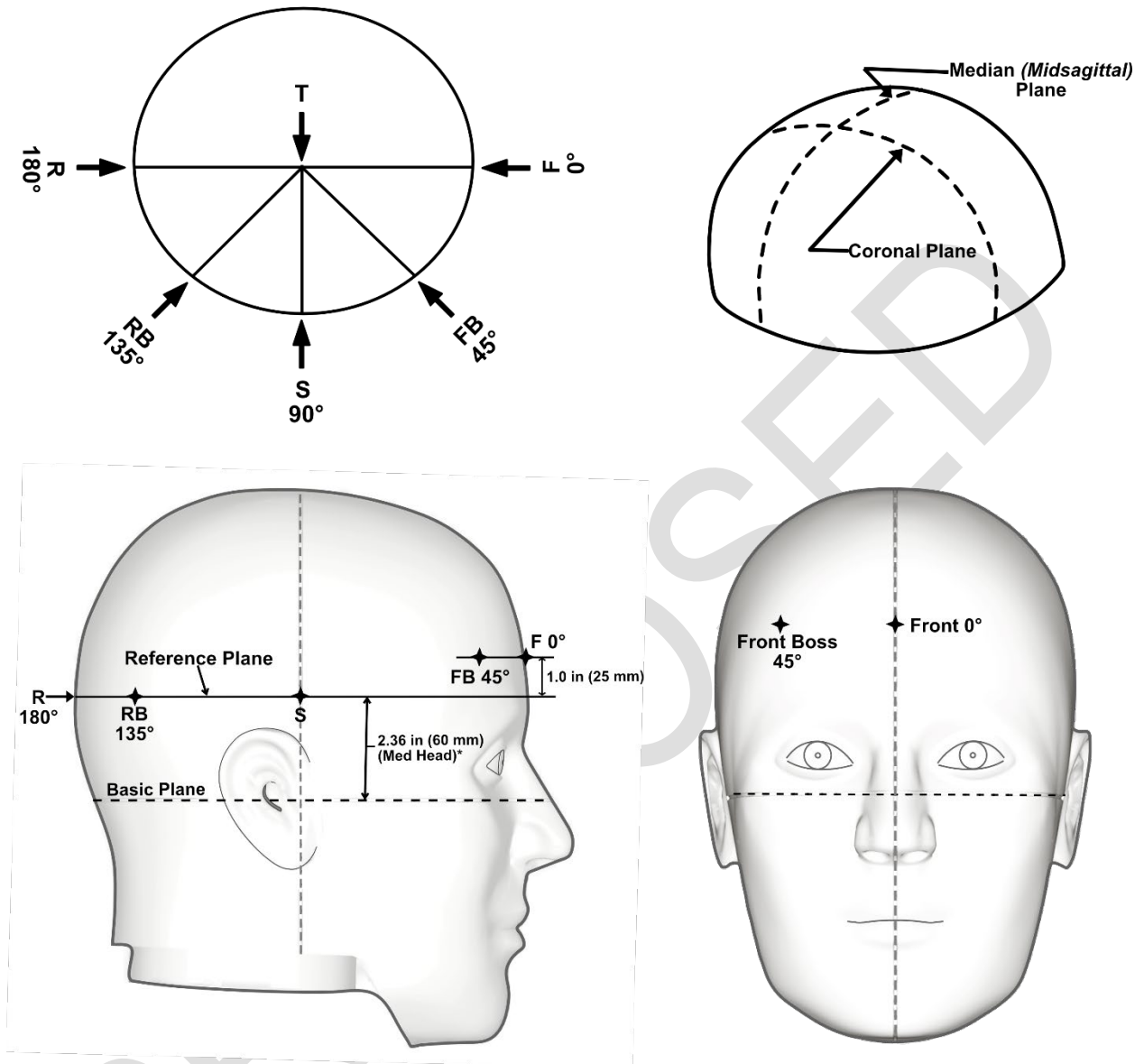
Random locations chosen must allow the rotator assembly to be locked in the position selected.

Impact area- for a helmet that is to be tested on the medium headform *, the impact area must include all locations on the headform above the BASIC PLANE rearward of a location 2.5 inches (64mm) forward of where the BASIC PLANE intersects with the CORONAL PLANE and any point on or above the REFERENCE PLANE in front of that same intersection. Impact area measurements are made with the face guard in place per section 1.1.

*For the small headform use 2.25 inches (57mm) and for the large headform use 2.75 inches (70mm).

Figure 1

IMPACT LOCATIONS



*For the small headform, the REFERENCE PLANE is 2.16 inches above the BASIC PLANE. For the large headform, the REFERENCE PLANE is 2.48 inches above the BASIC PLANE.

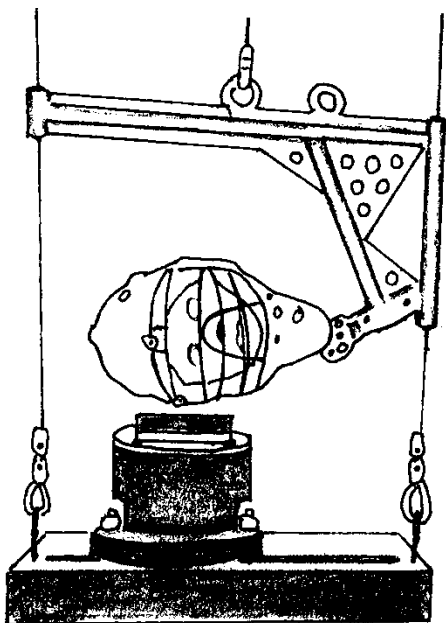
Impact Area – For a helmet that is to be tested on the medium headform** the impact area must include all locations on the headform above the BASIC PLANE rearward of a location 2.5 inches (64mm) forward of where the BASIC PLANE intersects with the CORONAL PLANE and any point on or above the REFERENCE PLANE in front of that same intersection.

**For the small headform use 2.25 inches and for the large headform use 2.75 inches.

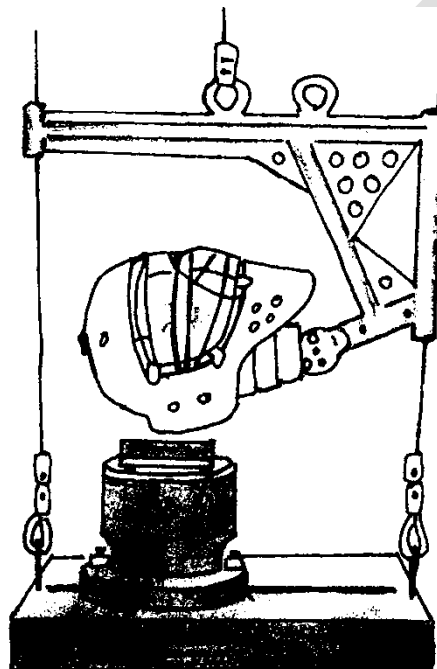
The random impact location may be selected from any point within the allowed impact area but not closer than 1 inch (25mm) from the edge of the helmet nor less than 1 inch (25mm) from any previous impact.

Random impact locations chosen must allow the rotator assembly to be locked in the position selected.

Figure 1

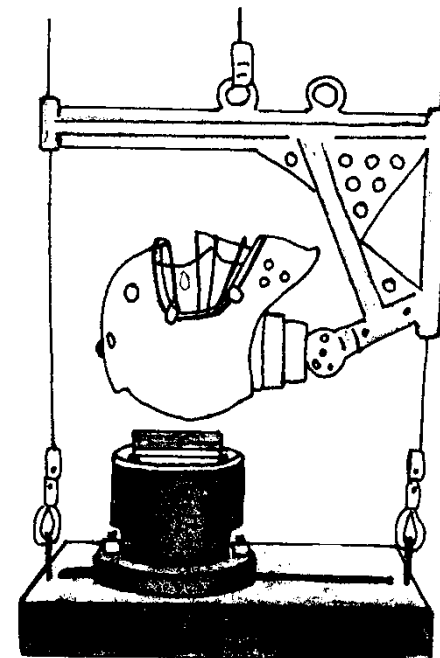


Right Side Drop Impact



Right Rear Boss Drop Impact

Figure 2



Rear Drop Impact

Catcher's Helmet Anvil

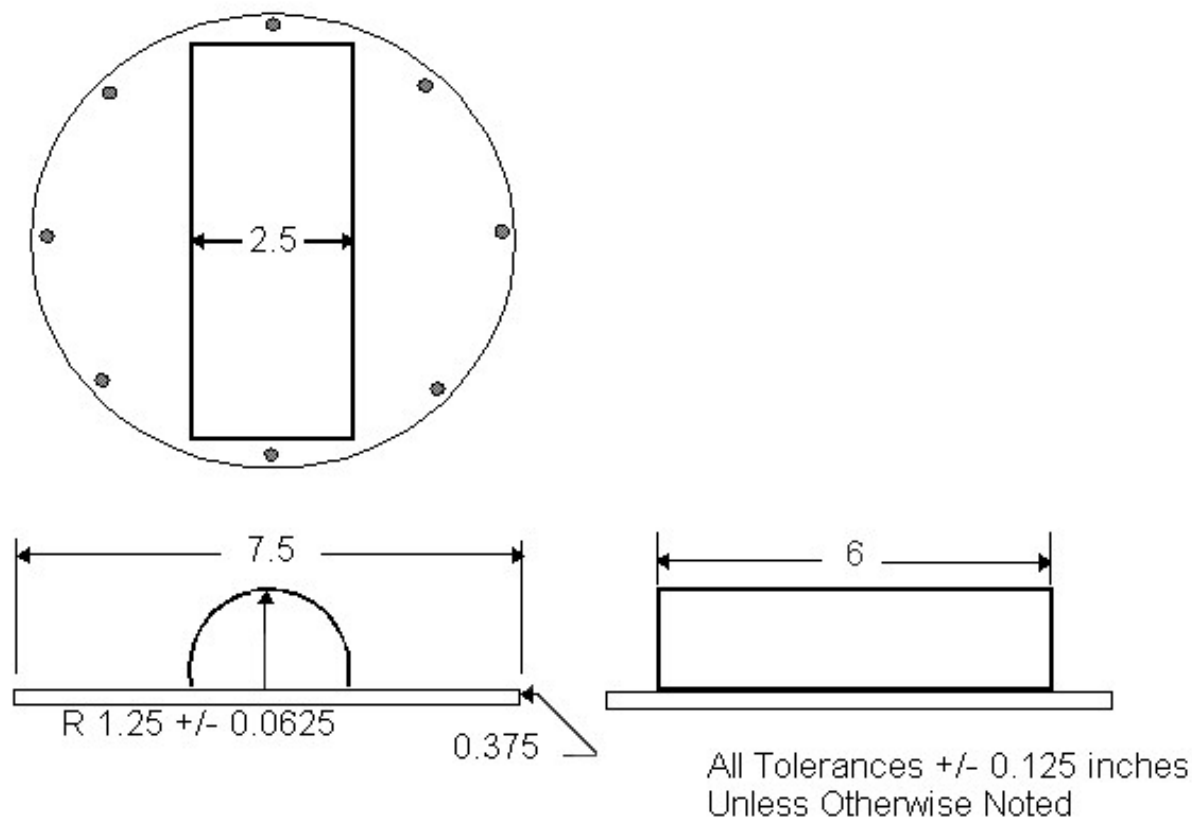
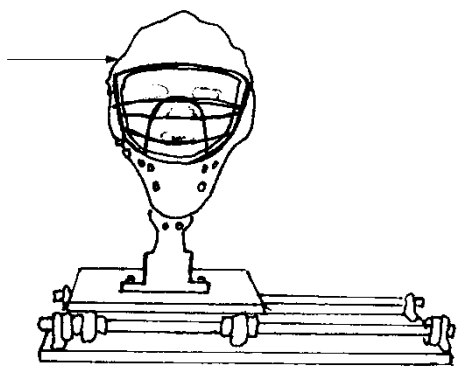
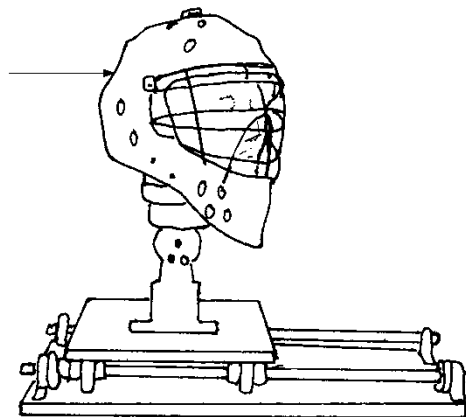


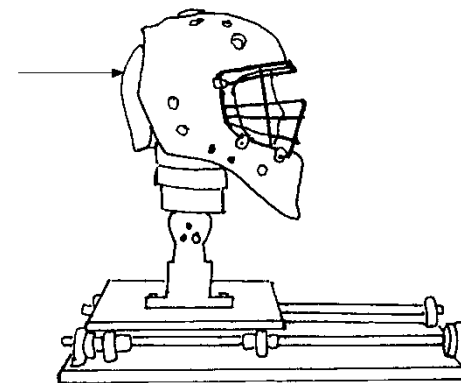
Figure 3



Right Side Projectile Impact

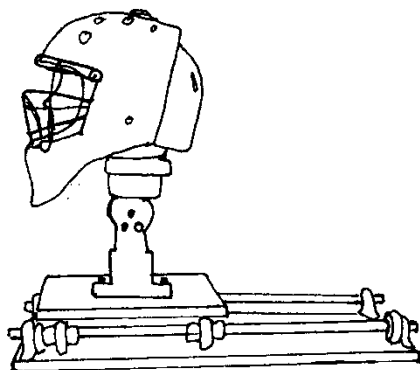


Right Rear Boss Projectile Impact



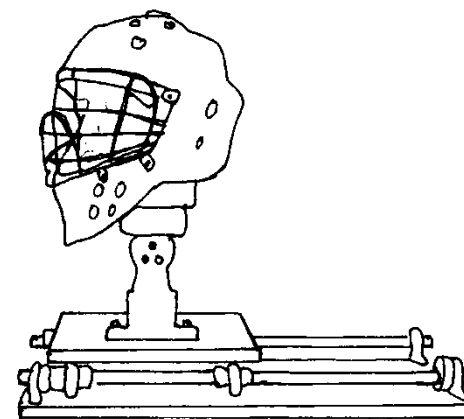
Rear Projectile Impact

Figure 4



Front Projectile Impact

Figure 5a



45 Degree Projectile Impact

Figure 5b

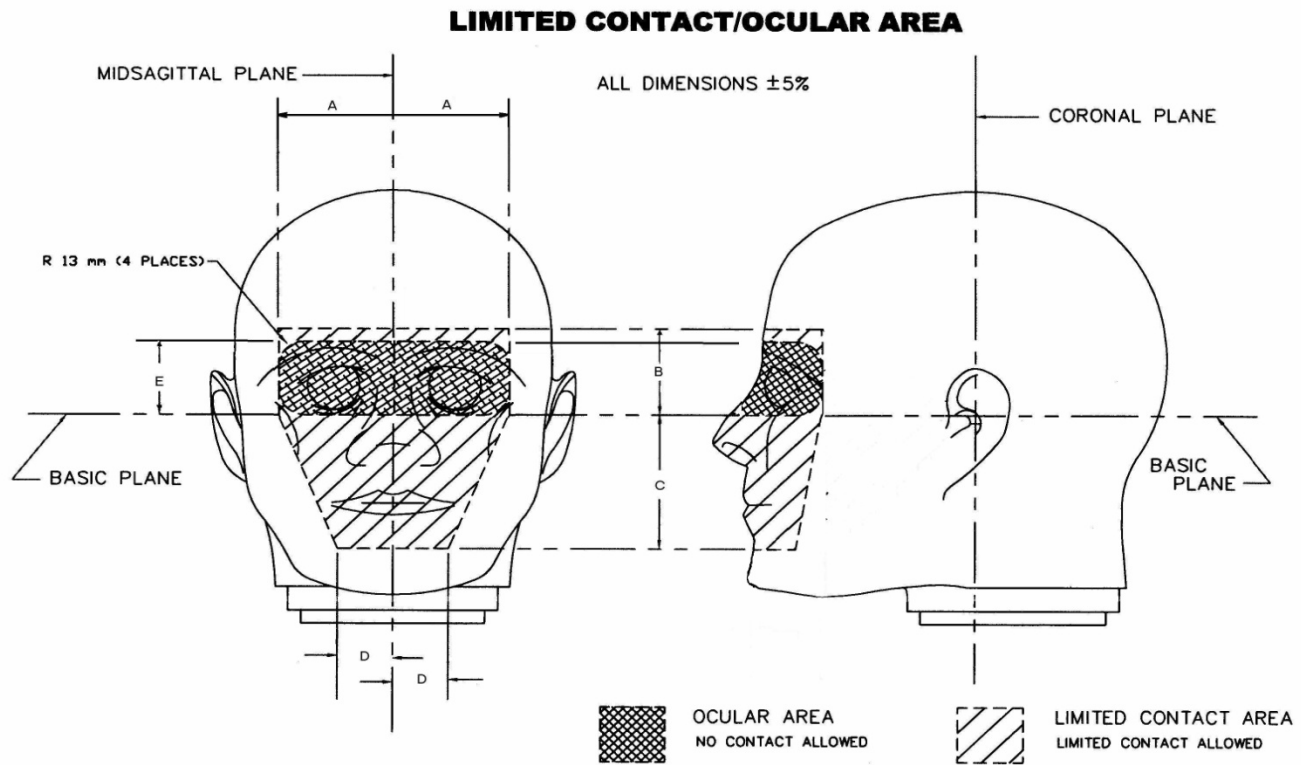


TABLE 4
Dimensions - Millimeters (in)

Headform	A	B	C	D	E
Small	54 (2.113)	41 (1.619)	64 (2.518)	26 (1.019)	32 (1.259)
Medium	56 (2.205)	45 (1.772)	70 (2.756)	27 (1.062)	35 (1.378)
Large	62 (2.421)	50 (1.969)	78 (3.063)	30 (1.167)	39 (1.532)

Figure 6

JANUARY 2000 MODIFICATIONS/REVISIONS

- Modified 5.3.1.4 and 5.3.1.5 for clarity.
- Changed the random location description in Figure 1 to make it the same as that in NOCSAE DOC 001.
- Modified the drawing in Figure 6 to depict the “ocular, no contact” area.

JANUARY 2002 MODIFICATIONS/REVISIONS

- Simplified document references within document.
- Modified Figure 1 showing faceguard, and clarified impact locations.

APRIL 2003 MODIFICATIONS/REVISIONS

- REVISION: Defined random impact locations referenced from previous impacts.
- Modified naming convention and added NOCSAE logo to cover page.
- Modified the description of the projectile used.

JANUARY 2004 MODIFICATIONS/REVISIONS

- Modified section 5.3 Faceguard projectile test to clarify impact order and location options
- Modified Ball specifications for clarity
- Clarified limited contact area in text

DECEMBER 2005 MODIFICATIONS/REVISIONS

- Clarified and added note to section 5.2.2.2.
- Added tolerances and clarified Figure 3 (Half Steel Anvil drawing).

JUNE 2006 MODIFICATIONS/REVISIONS

- REVISION: Changed the number of samples required to be submitted. Changed the impact projectile and impact schedule. Defined the softball projectile.

DECEMBER 2006 MODIFICATIONS/REVISIONS

- Modified sections 5.1.2 and 5.1.3 to specify weight in ounces of baseball and softballs used.

DECEMBER 2008 MODIFICATIONS/REVISIONS

- Updated Figure 6 to include dimensions for Limited Contact/Ocular Area on small and large headforms
- Updated effective date from June 2008 to June 2009

JANUARY 2009 MODIFICATIONS/REVISIONS

- Updated effective date from June 2009 to June 2010

DECEMBER 2009 MODIFICATIONS/REVISIONS

- Corrected Table 4 in Figure 6 dimension A

FEBRUARY 2010 MODIFICATIONS/REVISIONS

- REVISION: Changed the impact velocity specified for a softball impact to the helmet. Effective date remains unchanged.
- Specified the number of helmet samples required.
- Clarified test schedule.

MAY 2010 MODIFICATIONS/REVISIONS

- Clarified section 5.2.3.4 statement for selecting baseball impact locations.

FEBRUARY 2011 MODIFICATIONS/REVISIONS

- REVISION: Change drop heights to drop velocities.
- Moved test requirements to section 6. Clarified test requirements.

MAY 2011 MODIFICATIONS/REVISIONS

- Corrected typo in Table 1, drop height to velocity

AUGUST 2011 MODIFICATIONS/REVISIONS

- Modified requirements for softball projectile

MAY 2012 MODIFICATIONS/REVISIONS

- Clarified section 3 for standalone test report
- Moved requirements to section 4 from section 3 for clarity

DECEMBER 2013 MODIFICATIONS/REVISIONS

- Clarified text for baseball and softball impacts to the faceguard section 5.3
- Changed Figure 5 to Figure 5a and Figure 5b

OCTOBER 2014 MODIFICATIONS/REVISIONS

- Updated document to include level of compliance requirements.
- Added date specification becomes effective
- Updated title name of NOCSAE DOC 001
- Added SEI Certification NOCSAE Logo to Section 7, "Labels and Warnings"

JUNE 2015 MODIFICATIONS/REVISIONS

- Updated NOCSAE seal/logo artwork

JUNE 2017 MODIFICATIONS/REVISIONS

- Changed labeling reference from ND 021 to ND 001
- Updated formatting

FEBRUARY 2018 MODIFICATIONS/REVISIONS

- REVISION: Removed COR requirement for baseball projectile section 5.3.4
- Added reference to section 12 NOCSAE DOC 001 to section 4
- Corrected numbering in section 5
- Corrected reference in section 7.1
- Updated formatting

MAY 2020 MODIFICATIONS/REVISIONS

- Corrected misidentified section numbers

JANUARY 2021 MODIFICATIONS/REVISIONS

- REVISION: Added a compression deflection upper limit of 400 lbs to the softball projectile specification

JANUARY 2024 DRAFT DOCUMENT CHANGES

- REVISION: Added test parameters for helmets intended for use in softball only
- Replaced references to ND001 Sections 9, 10, and 12 with the referenced language
- Added Construction and Materials requirements from ND001¹
- Replaced Figure 1 with a drawing depicting impact locations on the headform rather than the helmet
- General formatting updates

¹ *this is not a new requirement due to the statement in Section 1.2.*