



THE UNITED KINGDOM VEHICLE APPROVAL AUTHORITY

COMMUNICATION CONCERNING THE APPROVAL GRANTED ⁽¹⁾/~~APPROVAL EXTENDED ⁽⁴⁾/~~
~~APPROVAL REFUSED ⁽⁴⁾/~~ ~~APPROVAL WITHDRAWN ⁽⁴⁾/~~ ~~PRODUCTION DEFINITELY~~
~~DISCONTINUED ⁽⁴⁾~~ OF A TYPE OF PROTECTIVE HELMET WITH ~~WITHOUT ⁽⁴⁾/~~ ONE ⁽⁴⁾/ MORE THAN
ONE ⁽⁴⁾/ VISOR TYPE(S) PURSUANT TO REGULATION NO. 22.05



Approval No: 22R-050536/P

Extension No: not applicable

Reason for extension: Not applicable

1. Trade mark: BELL
2. Type: BULLITT CARBON
3. Sizes: XS 54/55–S 55/56 M 57/58–L 58/59 XL 60/61–XXL 62/63
4. Manufacturer's name: Xiamen Yeu Chuan Composite Technology Co., Ltd.
5. Address:
No. 60. Xingnan Road, Xinglin, Jimei
Xiamen, China
Postal Code: 361022
6. If applicable, name of manufacturer's representative: Not applicable
7. Address: Not applicable
8. Brief description of helmet: See enclosures

9. Helmet ~~without lower face cover (J) / with protective lower face cover (P) / with non-protective lower face cover (NP)~~ ⁽¹⁾
10. Type of visor or visors: P401-FS-JH (Bullitt Flat Shield) / P401-BS-JH (Bullitt Bubble Shield)
11. Brief description of visor or visors: See enclosures
12. Submitted for approval on: 05 September 2014
13. Technical service responsible for conducting approval tests: Omega S.r.l.
14. Date of report issued by that service: 18 December 2014
15. Number of report issued by that service: MAQ305269
16. Comments: None
17. Approval ~~GRANTED/EXTENDED/REFUSED/WITHDRAWN~~ ⁽¹⁾
18. Place: BRISTOL
19. Date: 31 JANUARY 2015
20. Signature:  A. W. STENNING
Head of Technical and Quality Support Group
21. The following documents, bearing the approval number shown above, are available on request

Any remarks: Approval to Supplement 2

(1) Strike out what does not apply.



BELL SPORTS INC.

	Scheda Informativa redatta sulla base del Regolamento ECE/ONU n° 22 emendamento 05	Scheda Informativa n° BULLITT CARBON/14/00
	Casco: BULLITT CARBON	11/09/2014

Helmet type/*casco tipo*: BULLITT CARBON (Full Face)

Trade mark/*marchio di fabbrica o di commercio*: BELL

Manufacturer's name: Xiamen Yeu Chuan Composite Technology Co., Ltd.

Manufacturer's address: No. 60. Xingnan Road, Xinglin, Jimei
Xiamen, China
Postal Code: 361022

Weight/*peso*: g 1275± 50 – g 1400 ± 50

Size range/*gamma taglie*: XS 54/55-S 55/56 M 57/58-L 58/59 XL 60/61-XXL 62/63

Size	External shell	EPS Liner	EPS Thickness (mm)	EPS density + top zone density (g/l)	EPS weight (gr)	Pudding comfort Thickness (mm)
XS	S	S	33/41	20g/l – 30g/l	100	18
S	S	S	33/41	20g/l – 30g/l	100	16
M	M	M	33/41	20g/l – 35g/l	125	18
L	M	M	33/41	20g/l – 35g/l	125	16
XL	L	L	33/41	20g/l – 40g/l	145	16
XXL	L	L	33/41	20g/l – 40g/l	145	10

External shell/*calotta esterna*: Composite Carbon fiber 3 Sizes /*fibra di vetro 3 calotte*
thickness/ *spessore* 2.5-3mm +1 mm (all shells same)

Shields/*visiere*: Mod. P401-FS-JH (Bullitt Flat Shield)
Mod. P401-BS-JH (Bullitt Bubble Shield)
Polycarbonate injected/*poli carbonato stampato*

Liner/*imbottitura di protezione*: EPS Expanded polystyrene/*polistirolo espanso* 3 size (tab).

Comfort pudding/ *imbottitura di protezione*: Expanded polyurethane + syntethic textile/
poliuretano espanso e tessuto sintetico spessore variabile in funzione della taglia

Chin rest/*Mentoniera*: P- FULL FACE/ *P-PROTETTIVA*
Expanded Polystyrene , Polyurethane and Leather
Polistirolo, poliuretano e pelle

Buckle/*Fibbia*: D-Rings/*Anelli doppia D* : stainless steel/*acciaio*





BELL SPORTS INC.

Chin strap/Cinturino:	Nylon 24 mm
Rivets/Rivetti:	Stainless steel/acciaio
Anchorage/Staffe:	Stainless steel/acciaio
Reflective Bands:	Yes

	Scheda Informativa redatta sulla base del Regolamento ECE/ONU n° 22 emendamento 05	Scheda Informativa n° CUSTOM500/14/00
	Casco: BULLITT CARBON	Data 11/09/2014

Declaration: The characteristics of the materials used in manufacture of the helmet don't suffer alterations following the normal use of the helmet. For the part in contact with the skin it is used materials that don't cause allergy and are transpiring. These materials don't suffer from the variations due to sweating or to products used for the personal hygiene. These materials don't cause dermal problems.

Idoneità dei materiali:

I materiali utilizzati nella fabbricazione dei caschi sono adeguati all'uso e, in particolare per quelli a contatto con la pelle, sono noti per non subire modifiche per effetto del sudore o prodotti per l'igiene personale e per non causare problemi dermatologici. Sarà nostra cura comunicare tutte le variazioni che si effettuano e verificare l'adeguatezza dei materiali impiegati per la produzione del casco.

BRAND AND LABELS/POSIZIONAMENTO DELLE MARCATURE OBBLIGATORIE

Trade mark/ Marchio di fabbrica o di commercio: on frontal and rear external shell +brand inside the shell under the EPS./ Sulla calotta esterna marchio posizionato in fronte e dietro + marchio costruttore posizionato all'interno della calotta

Size label/ Indicazione delle misure: Adhesive label on the rear external shell/ Sul retro del casco mediante una etichetta adesiva

Approval label/ Etichetta omologativa: on the chin strap/ Cucita al sistema di ritenuta

Weight /Massa del casco: Adhesive label on the rear external shell/ Sul retro accanto alla taglia

Bell Sports Inc.

Aaron Michael Torres
Technical person Responsible





BELL SPORTS INC.

HELMET TYPE: Full Face

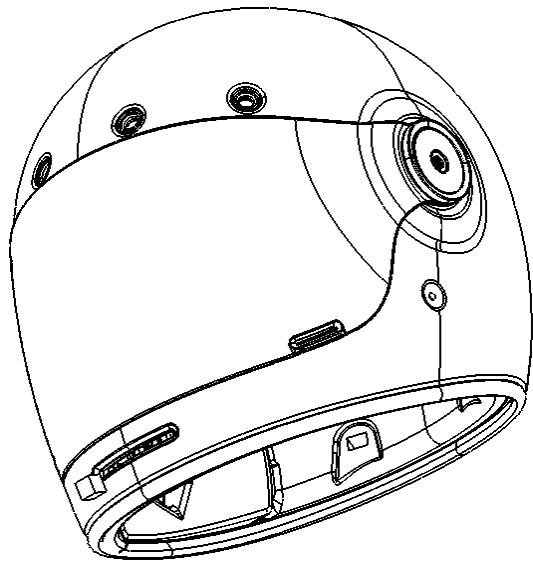
BRAND: Bell

MODEL: BULLITT CARBON

NUMBER (#)	DESCRIPTION	REFERENCE DOCUMENT
①	Iso View / <i>vista isometrica</i>	destra dx SEE: Helmet_Specs_Bullitt_Carbon DOC
②	Lateral Right View / <i>vista laterale</i>	
③	Cross Section Right View / <i>sezione</i>	
④	Front View / <i>vista frontale</i>	
⑤	Top View / <i>vista superiore</i>	
⑥	Cross Section Left View / <i>sezione sx</i>	
⑦	Main dimensions of the helmet/visor / <i>dimensioni principali</i>	fibra di vetro SEE: Shell_Carbonfiber_Specs_P401 DOC
⑦.1	Small / S	
⑦.2	Med / M	
⑦.3	Large / L	
⑧	External shell : material and n° of shell EPS density / <i>calotta esterna</i>	fibra di vetro SEE: Shell_Carbonfiber_Specs_P401 DOC
⑨	EPS Details Density & Thickness (mm) of EPS / <i>imbottitura di protezione</i>	eps SEE: EPS_Specs_Main_P401_Carbon DOC
⑩	Interior Comfort Padding / <i>imbottitura conforto</i>	poliuretano + tessuto SEE: Pad_Matrix_Bullitt DOC
⑪	Exterior Labels / <i>marcature esterne</i>	destra dx SEE: Helmet_Specs_Bullitt_Carbon DOC
⑫	Interior Labels / <i>marcature esterne</i>	
⑬	Packaging / <i>manuale istruzioni</i>	
⑭	Retention system / <i>sistema di ritenuta</i>	
⑮	Rivets / <i>rivetti</i>	
⑯	Anchorage / <i>staffe</i>	
⑰	Shield/ <i>visiera</i>	visiera SEE: Bubble/Flat_Shield_Specs DOC
⑱	Chin rest material / <i>materiale mentoniera</i>	destra dx SEE: Helmet_Specs_Bullitt DOC
⑲	Weight / <i>peso</i>	SEE: Finished_Weight_Spec_Bullitt_Carbon DOC

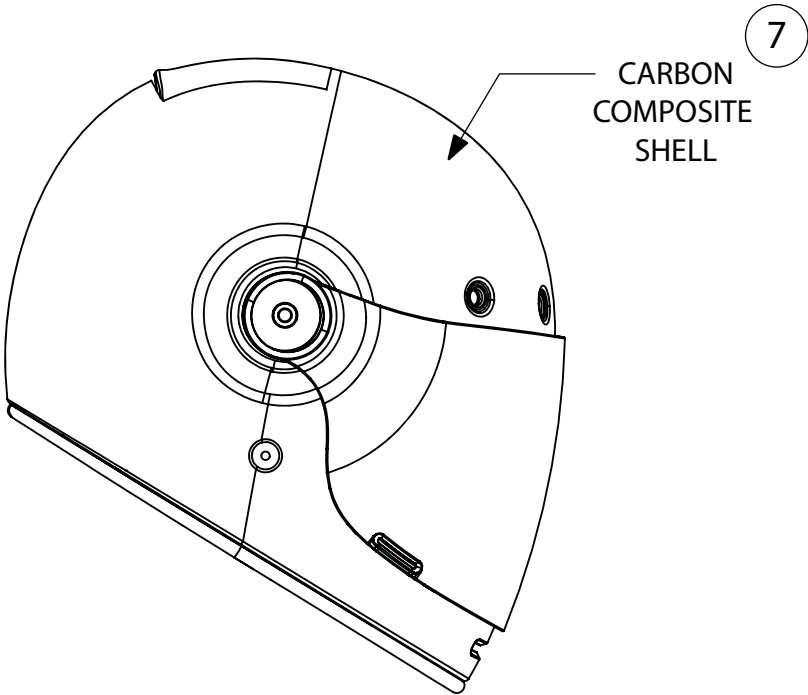


LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	9/5/2014



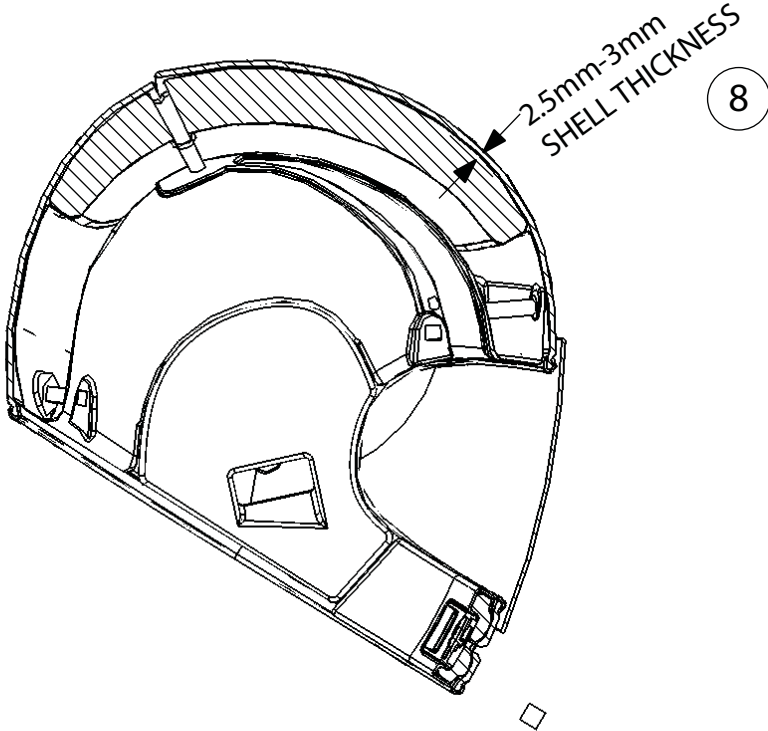
ISOMETRIC VIEW

1



LATERAL RIGHT VIEW

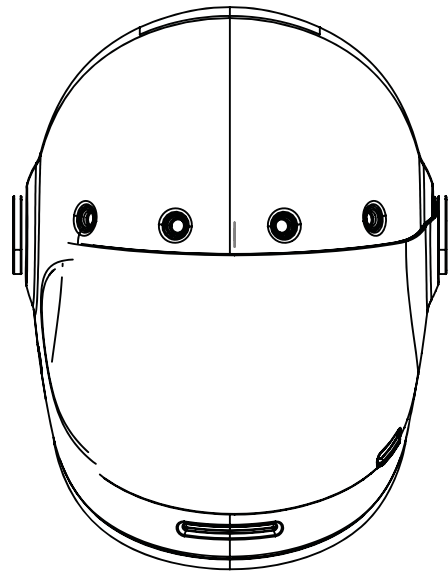
2



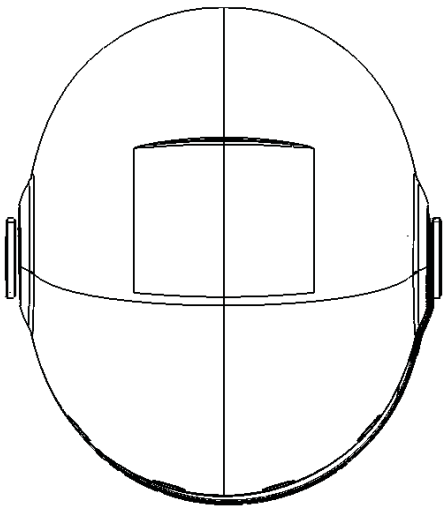
CROSS SECTION
RIGHT VIEW

3

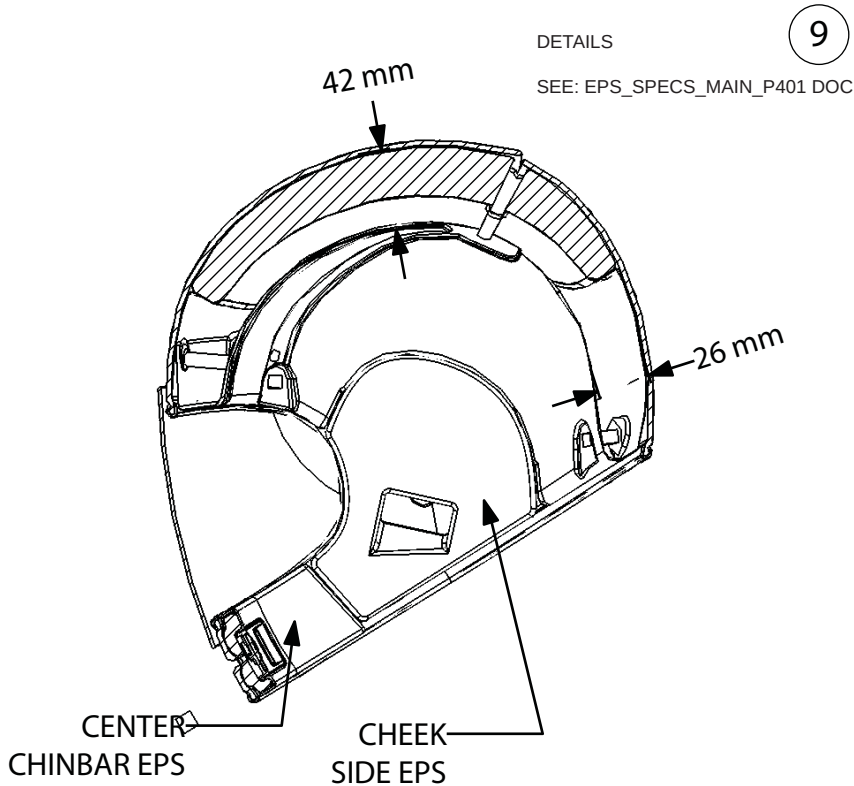
LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<=>	K.BAKER	9/5/2014



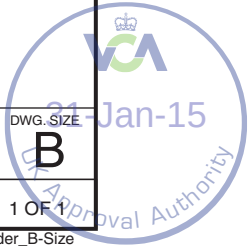
FRONT VIEW 4



TOP VIEW 5



CROSS SECTION VIEW 6



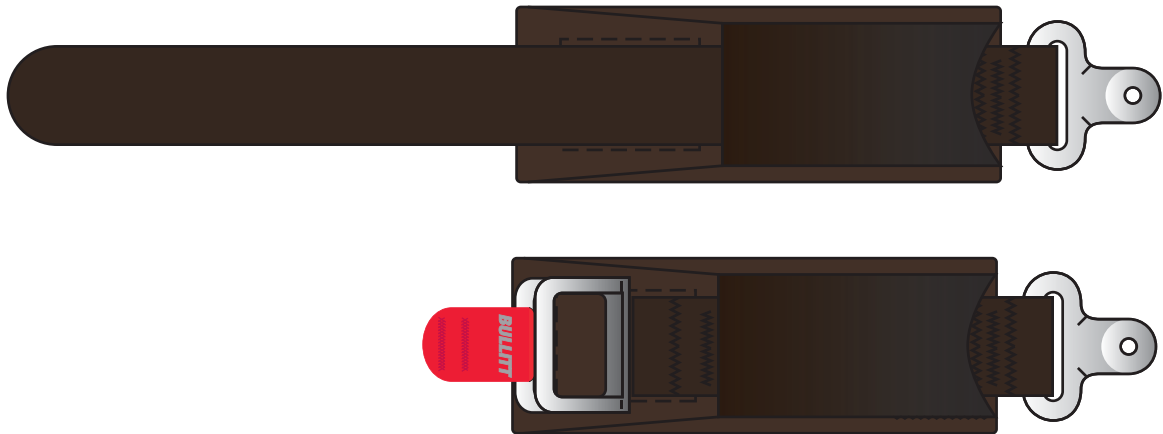
BULLITT CARBON

STRAPPING DETAILS



RIVET
Material: Steel
Coating: Zinc Plated (silver)
Black ED Coating(black)

CHINSTRAP



INTERIOR STRAP COVER
MATERIAL: MICRO SUEDE
COLOR: BLACK OR BROWN

ANCHORS
MATERIAL: STAINLESS STEEL
COLOR: SILVER

WEBBING
MATERIAL: NYLON
SIZE: 24MM TUBULAR WEBBING

D/RING
MATERIAL: STAILNESS STEEL

LEATHER PULL TAB
COLOR: RED

Standard D-Ring

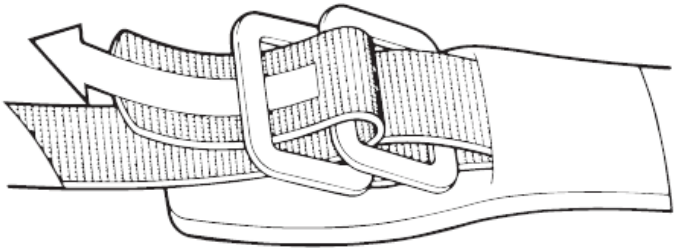


Figure A.

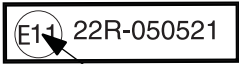
MODEL: NAME
GRAPHIC: NAME

DESIGNER: NAME
DATE: 0-0-12

BULLITT CARBON 11

EXTERIOR LABELS

NOT ACTUAL LABEL



SHIELD
CERT
LABEL
ON SHIELD



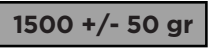
ECE ONLY
REAR LABELS



EXTERIOR
SIZE RANGE
LABEL



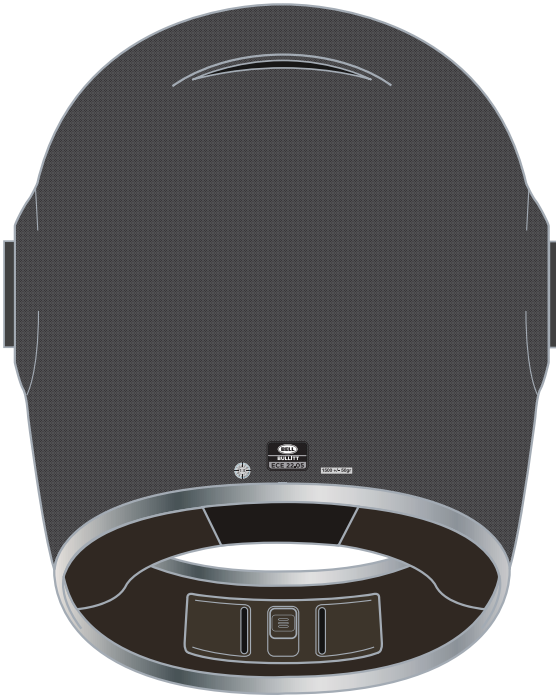
EXTERIOR
DATE
CODE



EXTERIOR
WEIGHT
RANGE
LABEL



SHIELD
CLING



BULLITT CARBON 12

INTERIOR LABELS

INTERIOR WOVEN WARNING LABEL MULTI LANGUAGE

DATE: _____

WARNING!
VEHICLE USER'S HELMET

No helmet can protect the wearer against all possible or foreseeable impacts.

1) For maximum protection this helmet must be of good fit and all retention straps must be securely fastened to retain the helmet. The helmet when fitted and fastened shall not be removed easily under this condition. 2) This helmet is so constructed that the energy of an impact may be absorbed through it's partial destruction, though damage may not be visible. If it suffers such an impact, it must either be returned to the manufacturer for inspection or be destroyed and replaced. 3) Make no modification. To maintain the full efficiency of this helmet there shall be no alteration to the structure of the helmet or its component parts. 4) Helmet can be seriously damaged by some common substances such as gasoline, paint, adhesives or cleaning agents without damage being visible to user. Apply only the following: Non-abrasive cleaners to the shell, only mild soap and water to fitpads and liner. 5) Certified as a full face helmet. 6) Shell constructed of composite material and polyester resin. Liner of expanded polystyrene.

BELL HELMETS
MADE IN CHINA

Warning! Read owner's manual. To get a replacement manual call Bell at 800-456-Bell.

SIZES

XS

54-55 cm

S

55-56 cm

M

57-58 cm

L

58-59 cm

XL

60-61 cm

XXL

62-63 cm

COMPATIBLE VISORS

☐ P157-CS-FS

☐ P157-RS-JH

☐ P311-CS-JH

☐ BH-IS-SS

☐ P157-SS-LY

☐ P157-CS-JH

☐ P362-IS-WS

☐ P401-BS-JH

☐ P401-FS-JH

☐ P311-IS-JH

DATE: _____

AVERTISSEMENT!
CASQUE POUR UTILISATEUR DE VÉHICULE

Aucun casque n'est capable de protéger celui qui le porte de tous les impacts possibles ou prévisibles.

1) Pour obtenir le maximum de protection de ce casque, il doit être de la bonne taille et toutes les courroies d'attache doivent être bien fermées pour maintenir le casque en place. Une fois que le casque convient bien et qu'il est bien positionné et fixé par ses courroies, il ne sera pas facilement enlevé dans cette condition. 2) Ce casque est construit de telle manière que la force d'un impact puisse être absorbée par sa destruction partielle, même si les dommages n'en sont pas visibles. Si un casque fait l'objet d'un tel impact, il doit être soit renvoyé au fabricant pour être inspecté, soit être détruit et remplacé. 3) N'y apporter aucune modification. Pour conserver l'efficacité complète de ce casque, aucune modification de sa structure ni des pièces la composant ne doit être effectuée. 4) Le casque pourrait être gravement endommagé par des substances ordinaires telles que l'essence, la peinture, les colles ou détergents, sans toutefois que les dommages ne soient visibles à l'utilisateur. Utiliser seulement ce qui suit : Produits nettoyants non-abrasifs pour la coque extérieure du casque, seulement du savon doux et de l'eau pour les coussinets de confort et de fixation et pour le revêtement intérieur du casque. 5) Certifié comme casque recouvrant toute la tête. 6) Coque extérieure construite de matériaux composites et de résine polyester. Revêtement intérieur en polystyrène expansé.

BELL HELMETS
FABRIQUÉS EN CHINE

Avertissement! Lire le Guide de l'utilisateur. Pour l'obtention de ce guide, contacter Bell au 800-456-Bell.

DIMENSIONS

XS

54-55 cm

S

55-56 cm

M

57-58 cm

L

58-59 cm

XL

60-61 cm

XXL

62-63 cm

COMPATIBLE VISIÈRE

☐ P157-CS-FS

☐ P157-RS-JH

☐ P311-CS-JH

☐ BH-IS-SS

☐ P157-SS-LY

☐ P157-CS-JH

☐ P362-IS-WS

☐ P401-BS-JH

☐ P401-FS-JH

☐ P311-IS-JH

INTERIOR CHEEK PAD LABEL

INTERIOR ECE LABEL

Handwash Only
25 mm

E11
052461/P/J - 122555

NOT ACTUAL LABEL

INTERIOR EPS LABELS

BRG Sports
River House, St. Mary's Road
Newcastle West, County Limerick Ireland
Tel. +353-69-61544

RED
LEATHER
CHIN PULL

EASTON-BELL SPORTS 2200 Scotts Valley Drive, Scotts Valley, California 95060 – 831.461.7500 – FAX: 831.461.7503				Contains proprietary information belonging to Bell Sports, Inc. Its receipt or possession does not convey any rights to produce, disclose its contents, or to manufacture, use, or sell anything it may describe. Reproduction, disclosure, or use without specific written authorization is prohibited.				Unless otherwise specified, dimensions are in millimeters. Tolerances are:				DECIMALS X = ± 3.0 X.X = ± 1.0 X.XX = ± 0.25 X.XXX = ± 0.13	MM = ± 0.12 = ± 0.04 = ± 0.01 = ± 0.005	IN. = ± 0.12 = ± 0.04 = ± 0.01 = ± 0.005	ANGLES ± 1°	HELMET AND GRAPHIC HELMET SPECS BULLITT CARBON		PART NO. P401	DWG. SIZE B
SCALE: N/A				CAD FILE: ILLUSTRATOR				SHEET: 1 OF 1				BASIC FORM-0013-A.1 _Engineering_Low_Border_B-Size							

BULLITT
CARBON
PACKAGING

13

LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	9/5/2014

PU HELMET BAG WITH CARBON VERSION

MULTI LANGUAGE OWNERS MANUAL



LANGUAGES CONTAINS

- English
- François
- Deutsch
- Spanish
- Netherlands
- Italian
- Portuguese
- Japanese

BELL STICKER - INCLUDED IN BOX



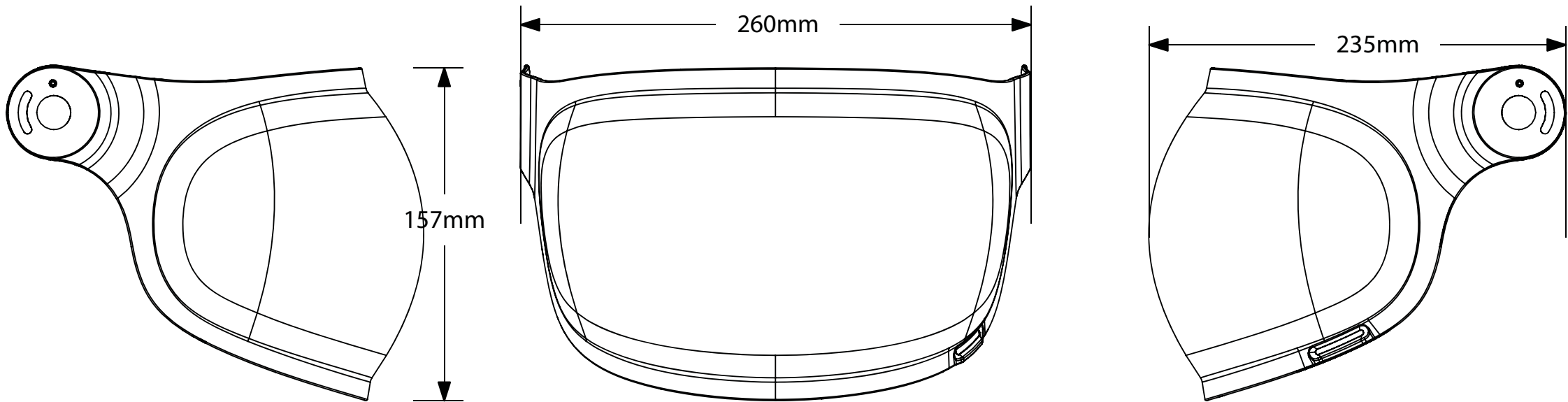
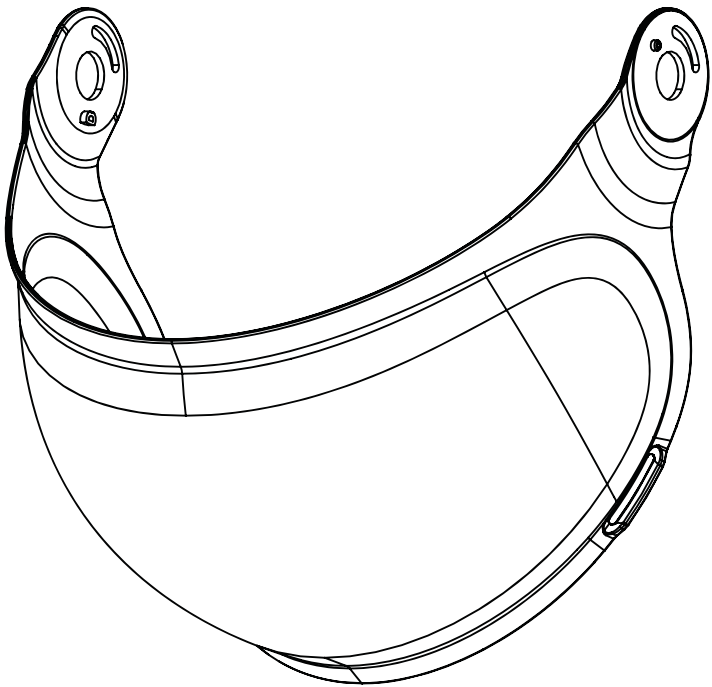
BULLITT STICKER - INCLUDED IN BOX

BULLITT

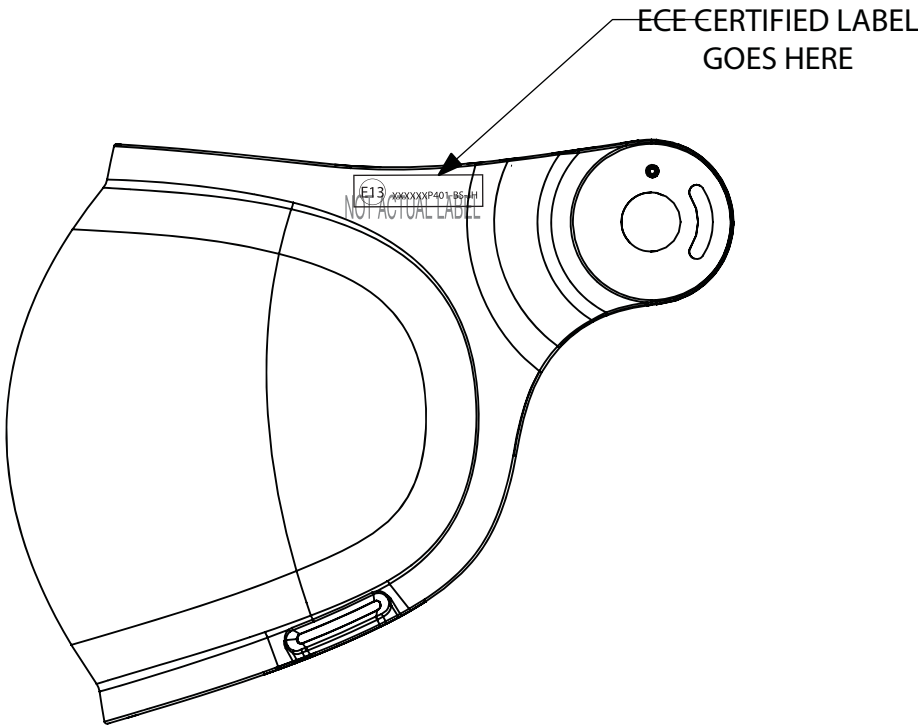
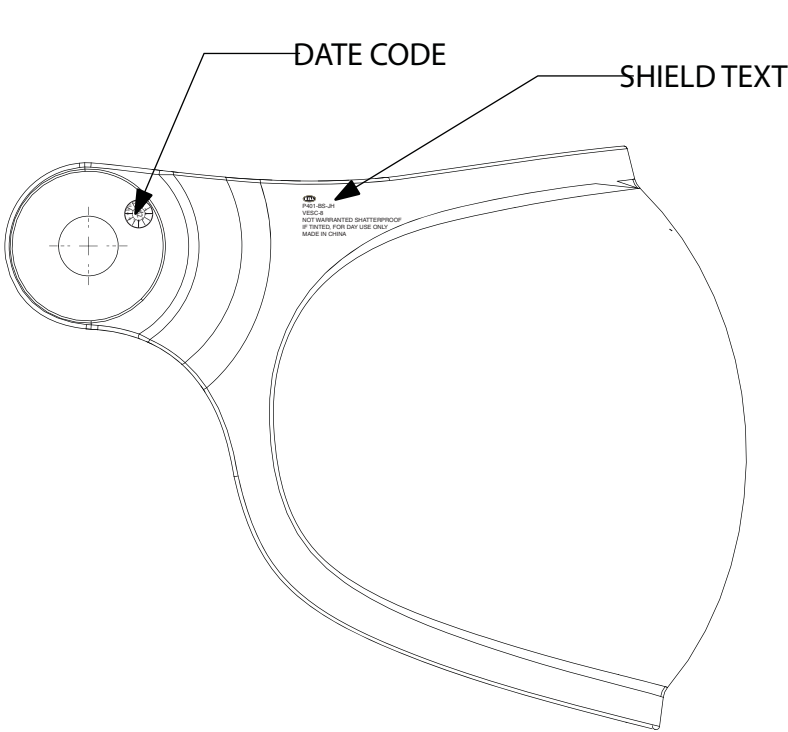


LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	22-MAY-13

- UNLESS OTHERWISE NOTED
- 1. THIS DRAWING CONTAINS CONTROL DIMENSIONS ONLY
FOR OUTER SURFACE GEOMETRY DEFINITION REFER TO IGES
FILE: BUBBLE_SHIELD_P401_2-0.IGES SUPPLIED CAD IS 100% OF FINAL
PART SIZE
 - 2. MATERIAL: POLYCARBONATE
 - 3. COLOR: CLEAR
 - 4. VOLUME: 111.9 cm^3
 - COSMETIC SURFACES:
 - 6. FLASH & MISMATCH NOT TO EXCEED 0.13mm
 - 7. TEXT CONTENT: BELL
P401-BS-JH
EXCEEDS Z87.1/VESC-8
NOT WARRANTED SHATTERPROOF
IF TINTED, FOR DAY USE ONLY
MADE IN CHINA
 - 8. DATE WHEEL SHOULD INCLUDE MONTH/YEAR DATA



LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	22-MAY-13



TYPE

CS = CURVED SHIELD
RS = RACE SHIED (tear off post)
FS = FLAT SHIELD
IS = INNER SHIELD
BS = BUBBLE SHIELD
R3 = RETRO 3-SNAP

VENDOR

JH = JIN HUI
FS = FORESIGHT
WS = WANG SHI
LY = Liang Yu
LS = Lenti SRL

EASTON-BELL SPORTS
2200 Scotts Valley Drive, Scotts Valley, California 95060 – 831.461.7500 – FAX: 831.461.7503

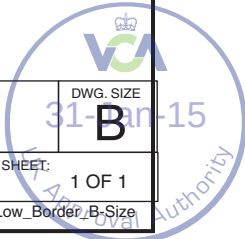


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Unless otherwise specified, dimensions are in millimeters. Tolerances are:	DECIMALS	MM	IN.	ANGLES
	X	= ± 3.0	± 0.12	± 1°
	X.X	= ± 1.0	± 0.04	
	X.XX	= ± 0.25	± 0.01	
	X.XXX	= ± 0.13	± 0.005	

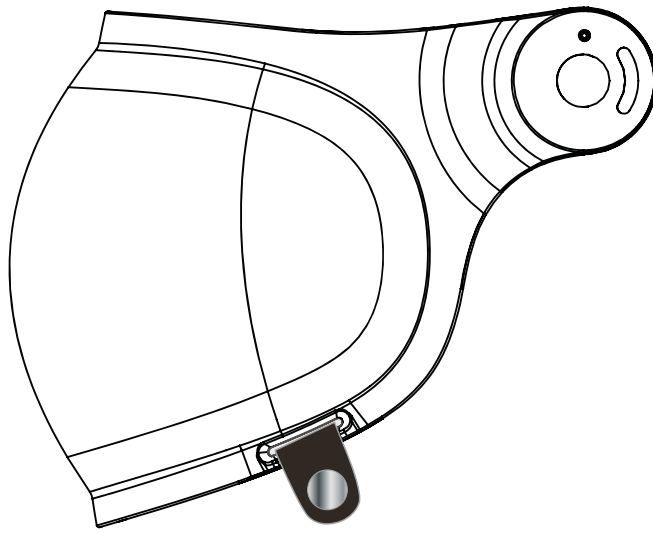
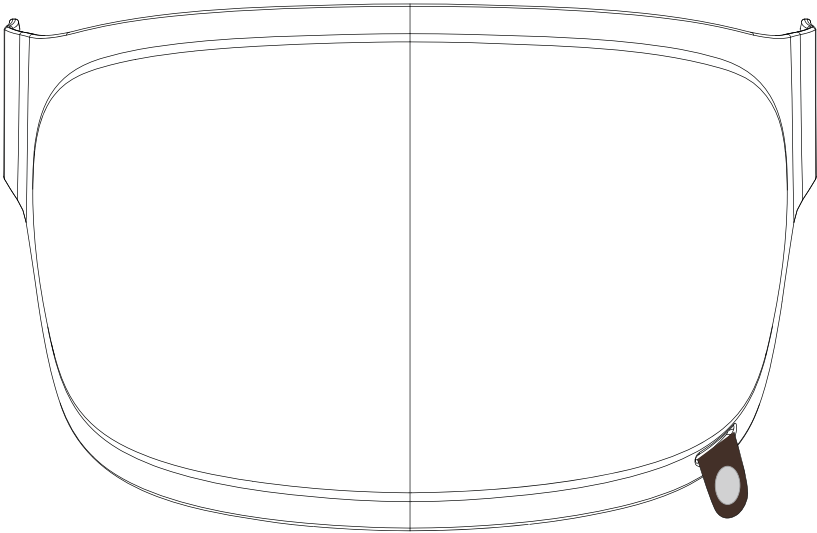
HELMET AND GRAPHIC
BUBBLE SHIELD SPECS

PART NO.		P401		DWG. SIZE	B
SCALE:	N/A	CAD FILE:	ILLUSTRATOR	SHEET:	1 OF 1
BASIC FORM-0013-A.1 _Engineering_Low_Border_B-Size					



LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	22-MAY-13

ITEM	PART NUMBER	DESCRIPTION	% LIGHT TRANSMISSION ±5%
1	8013381	CLEAR	90%
2	8013379	HI-DEFINITION YELLOW	87%



NOTES:

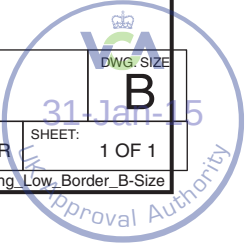
1. LEATHER PULL TAB ASSEMBLY MUST BE ATTACHED TO EACH SHIELD
2. ALL NON-IRIDIUM SHIELDS HAVE:

i. ANTI-FOG COATING ON INSIDE OF SHIELD (NOT CONSIDERED MIST RETARDANT)

ii. ANTI-SCRATCH COATING ON OUTSIDE OF SHIELD
3. ALL IRIIDIUM SHIELDS HAVE:

i. ANTI-FOG COATING ON INSIDE OF SHIELD (NOT CONSIDERED MIST RETARDANT)

ITEM	MATERIAL	DESCRIPTION	QTY.
1	Leather	Leather Pull	1
2	Stainless Steel Cup	Steel Cup	1
3	Neodymium	Magnet	1
4	Zinc Plated Steel	Snap Post	1
5	Acrylic	3M Sticker Pad	1



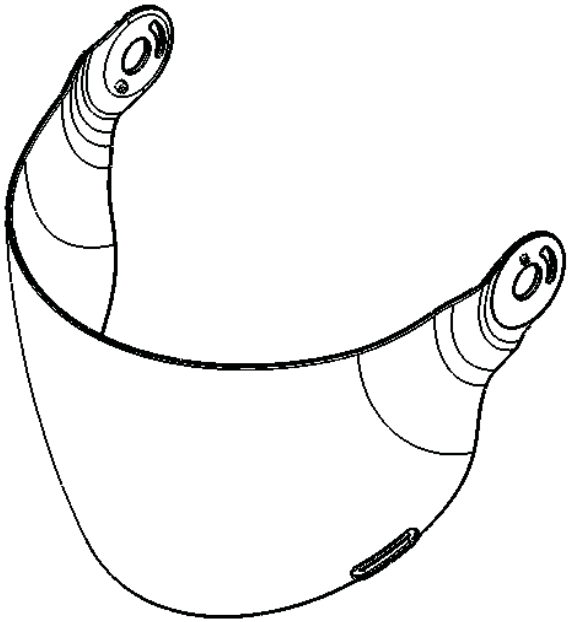
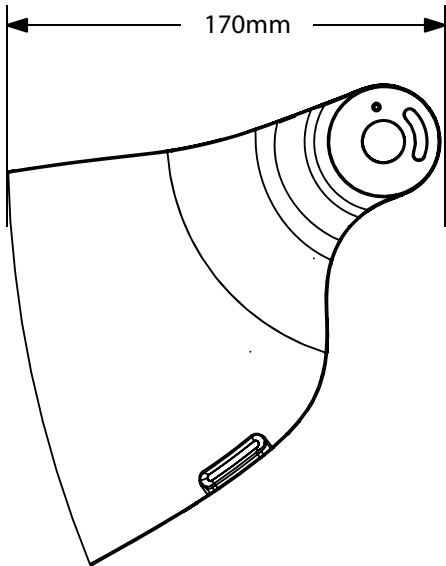
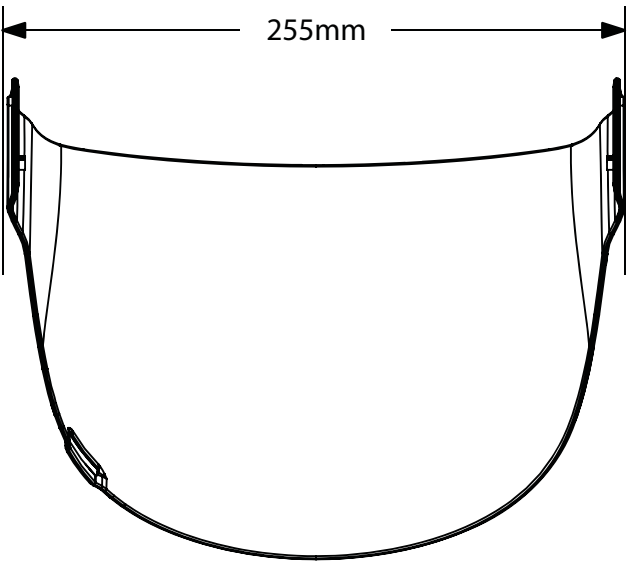
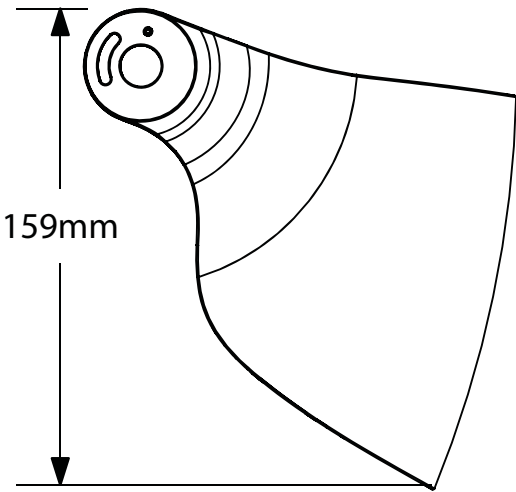
LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	22-MAY-13

UNLESS OTHERWISE NOTED

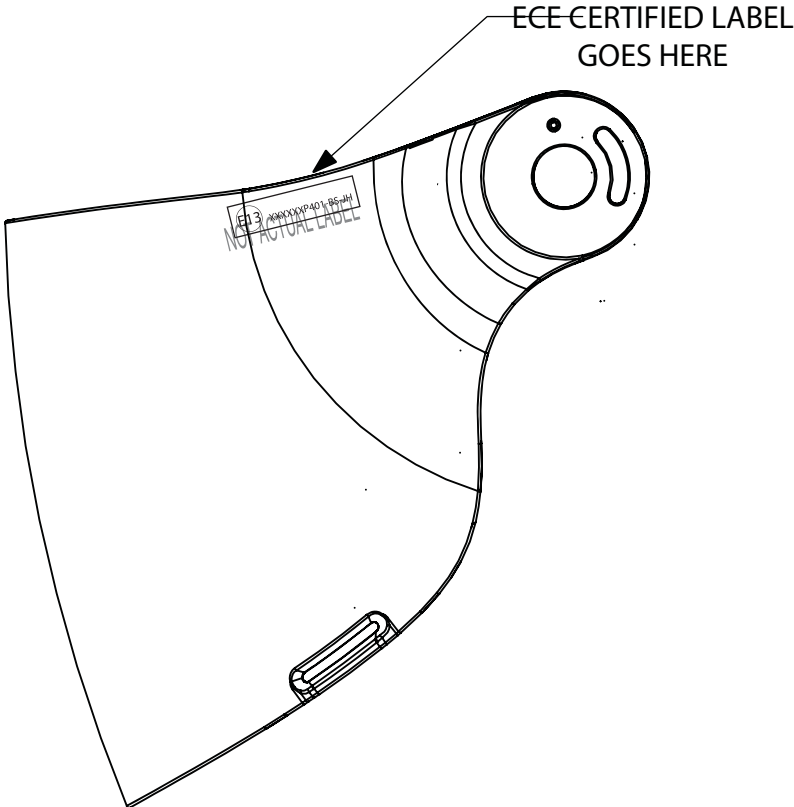
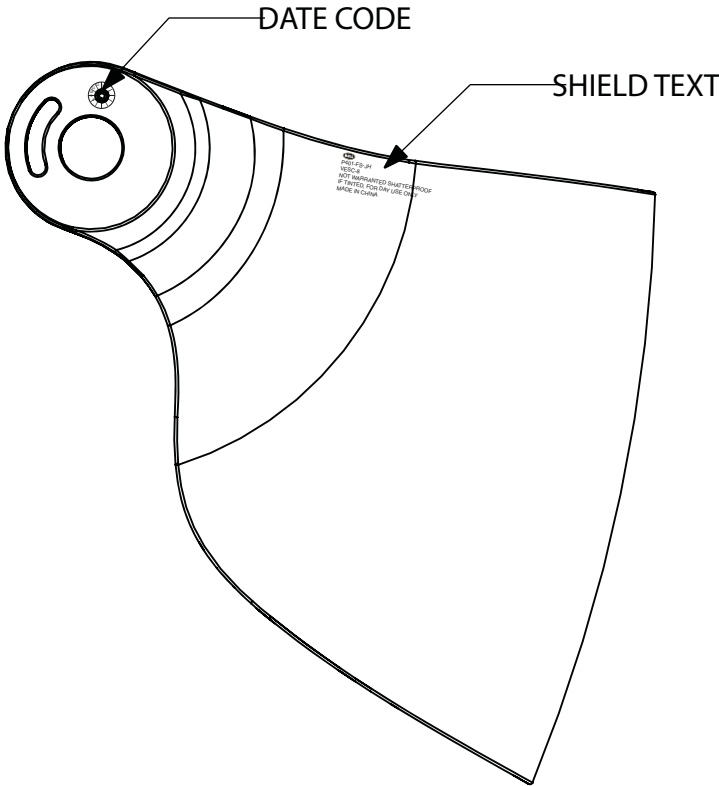
1. THIS DRAWING CONTAINS CONTROL DIMENSIONS ONLY
FOR OUTER SURFACE GEOMETRY DEFINITION REFER TO IGES
FILE: FLAT_SHIELD_P401_2-0.IGES SUPPLIED CAD IS 100% OF FINAL
PART SIZE

2. MATERIAL: POLYCARBONATE
3. COLOR: CLEAR
4. VOLUME: 107.2 cm^3
- COSMETIC SURFACES:
6. FLASH & MISMATCH NOT TO EXCEED 0.13mm
7. TEXT CONTENT: BELL
P401-FS-JH
EXCEEDS Z87.1/VESC-8
NOT WARRANTED SHATTERPROOF
IF TINTED, FOR DAY USE ONLY
MADE IN CHINA

8. DATE WHEEL SHOULD INCLUDE MONTH/YEAR DATA



LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT:MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	22-MAY-13



TYPE

- CS = CURVED SHIELD
- RS = RACE SHIED (tear off post)
- FS = FLAT SHIELD
- IS = INNER SHIELD
- BS = BUBBLE SHIELD
- R3 = RETRO 3-SNAP

VENDOR

- JH = JIN HUI
- FS = FORESIGHT
- WS = WANG SHI
- LY = Liang Yu
- LS = Lenti SRL

EASTON-BELL SPORTS
2200 Scotts Valley Drive, Scotts Valley, California 95060 – 831.461.7500 – FAX: 831.461.7503

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Unless otherwise specified, dimensions are in millimeters. Tolerances are:	DECIMALS	MM	IN.	ANGLES
	X	= ± 3.0	± 0.12	± 1°
	X.X	= ± 1.0	± 0.04	
	X.XX	= ± 0.25	± 0.01	
	X.XXX	= ± 0.13	± 0.005	

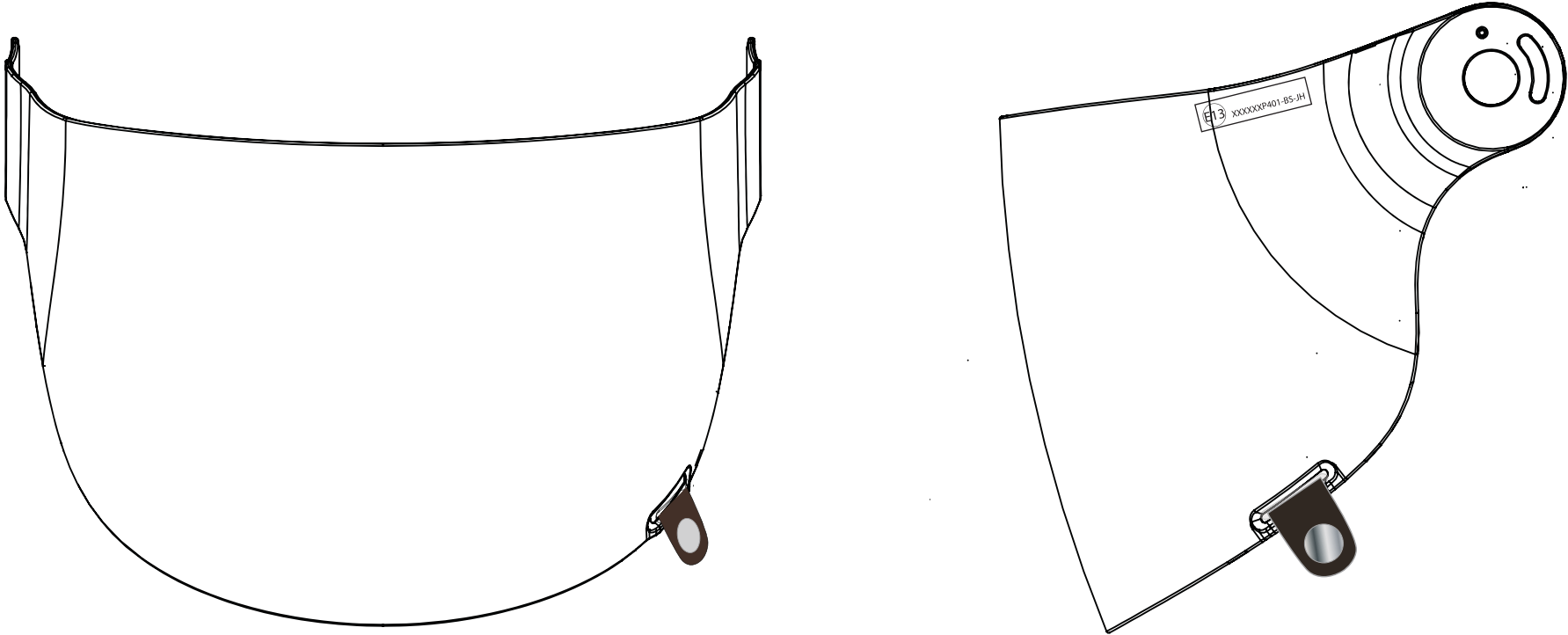
HELMET AND GRAPHIC

FLAT SHIELD SPECS

PART NO.	P401	DWG. SIZE	B
SCALE:	N/A	CAD FILE:	ILLUSTRATOR
SHEET:	1 OF 1		

LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	22-MAY-13

ITEM	PART NUMBER	DESCRIPTION	% LIGHT TRANSMISSION ±5%
1	8013381	CLEAR	90%



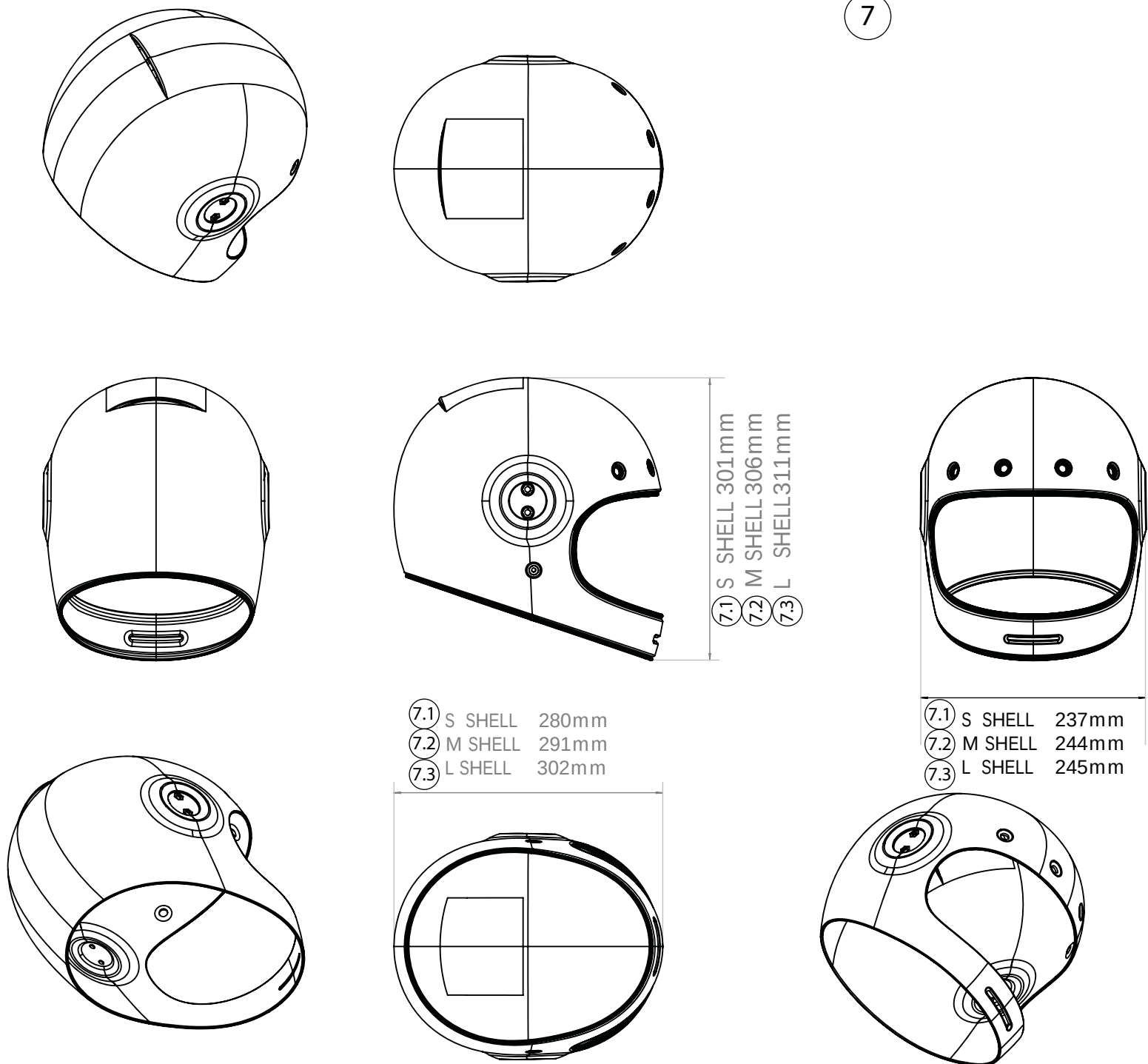
NOTES:

- 1. LEATHER PULL TAB ASSEMBLY MUST BE ATTACHED TO EACH SHIELD
- 2. ALL NON-IRIDIUM SHIELDS HAVE:
 - i. ANTI-FOG COATING ON INSIDE OF SHIELD (NOT CONSIDERED MIST RETARDANT)
 - ii. ANTI-SCRATCH COATING ON OUTSIDE OF SHIELD
- 3. ALL IRIDIUM SHIELDS HAVE:
 - i. ANTI-FOG COATING ON INSIDE OF SHIELD (NOT CONSIDERED MIST RETARDANT)

ITEM	MATERIAL	DESCRIPTION	QTY.
1	Leather	Leather Pull	1
2	Stainless Steel Cup	Steel Cup	1
3	Neodymium	Magnet	1
4	Zinc Plated Steel	Snap Post	1
5	Acrylic	3M Sticker Pad	1

SHELL DIMENSIONS

7



- 7.1 S SHELL 280mm
- 7.2 M SHELL 291mm
- 7.3 L SHELL 302mm

- 7.1 S SHELL 237mm
- 7.2 M SHELL 244mm
- 7.3 L SHELL 245mm

- 7.1 S SHELL 301mm
- 7.2 M SHELL 306mm
- 7.3 L SHELL 311mm

8

EPS-SHELL-CONFIGURATION					
BULLITT	MARKET SIZE/CM		EPS SIZE		SHELL SIZE
	XS	54-55 CM	SM		
	SM	55-56 CM			
	MD	57-58 CM	MD		
	LG	58-59 CM			
	XL	60-61 CM	LG		
	XXL	62-63 CM			

TOOL ID	Standard	SIZE	RAW COLOR	Average Volume (ml)	Weight (g)+/-
P401-S	DOT/ECE/AS	S	3K WOVEN	TBD	476
P401-M	DOT/ECE/AS	M	3K WOVEN	TBD	484
P401-L	DOT/ECE/AS	L	3K WOVEN	TBD	510

- NOTES:
- 1. SHELL MATERIAL: CARBONFIBER COMPOSITE
COLOR: 3K WOVEN
 - 2. SHELL WEIGHTS ARE RAW TRIMMED SHELLS PRIMED READY FOR PAINT
 - 3. MATERIAL CANNOT CHANGED WITHOUT APPROVAL FROM EASTON BELL

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PRODUCT LINE

POWERSPORTS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

DECIMALS	MM	IN.	ANGLES
X	= ± 3.0	± 0.12	± 1°
X.X	= ± 1.0	± 0.04	
X.XX	= ± 0.25	± 0.01	
X.XXX	= ± 0.13	± 0.005	

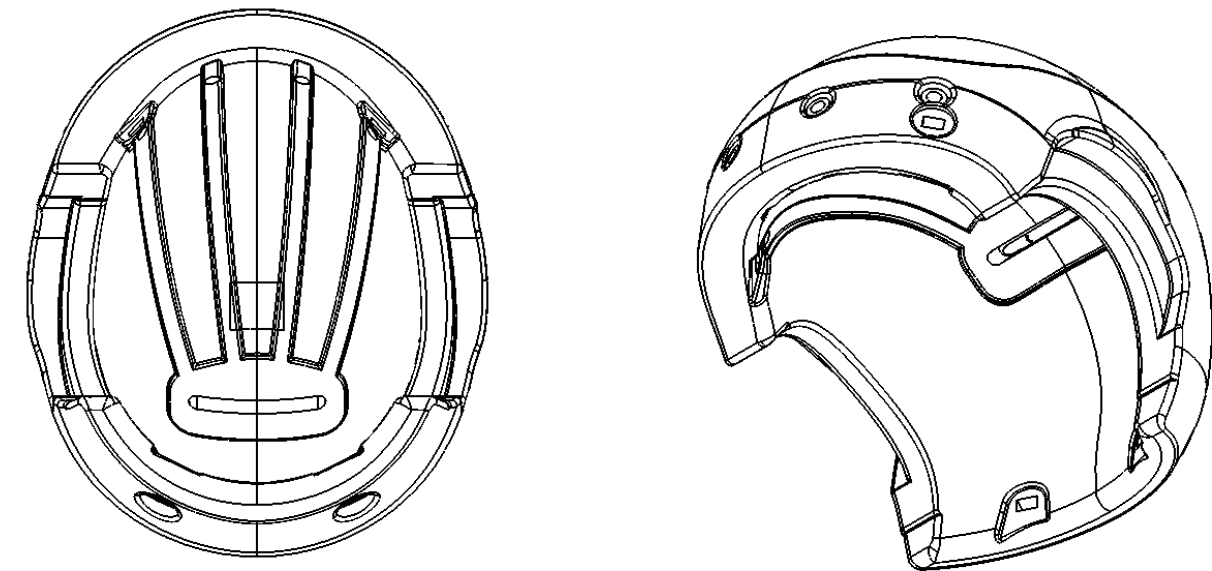
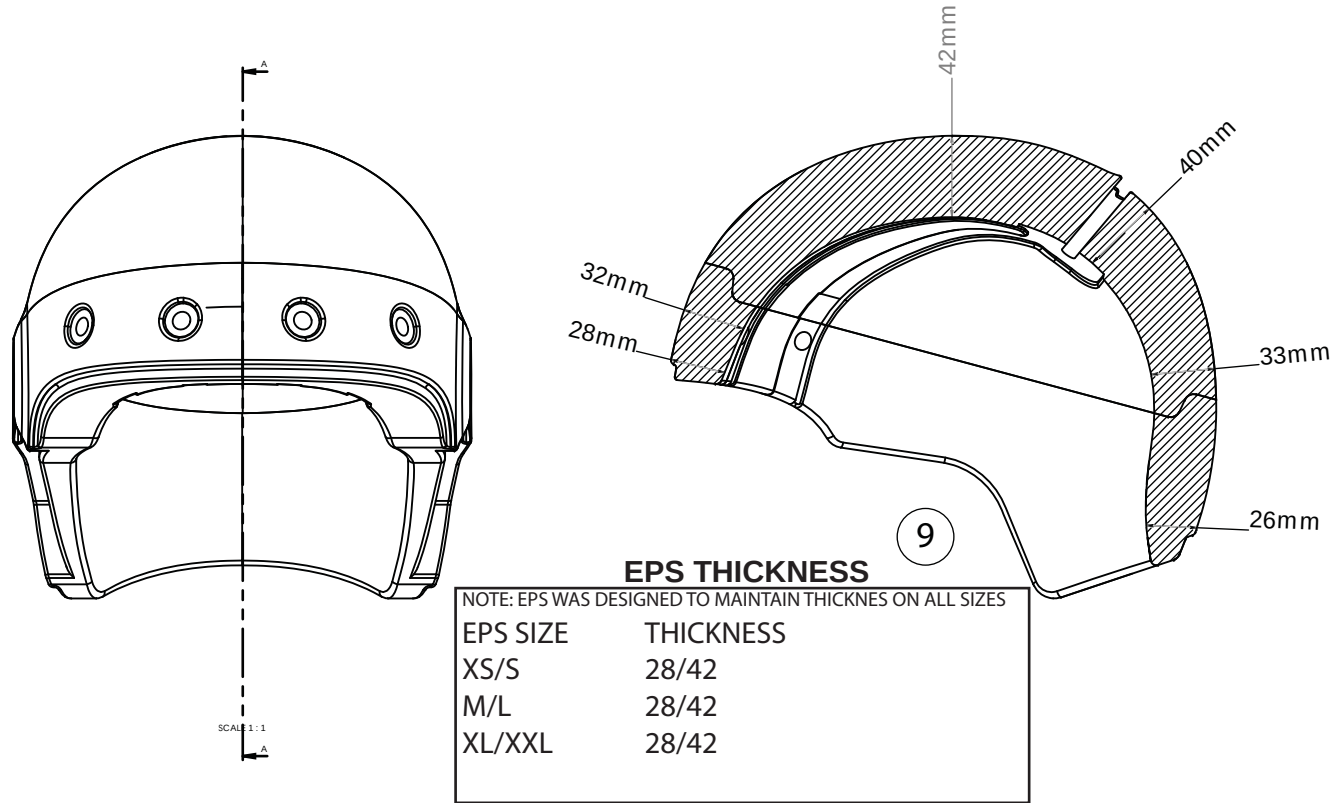
BELL SPORTS, INC.

380 ENCINAL STREET
SANTA CRUZ, CALIFORNIA 95060
831.420.4000 FAX: 831.457.4444

TITLE:

SHELL, CARBONFIBER SPECS, P401

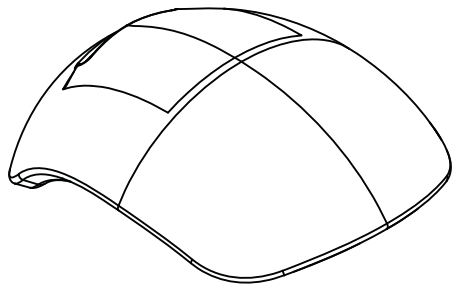
DWG. SIZE	PART NO.
B	TABLE
SCALE: 1 : 1	CAD FILE: ILLUSTRATOR
SHEET: 1 OF 1	



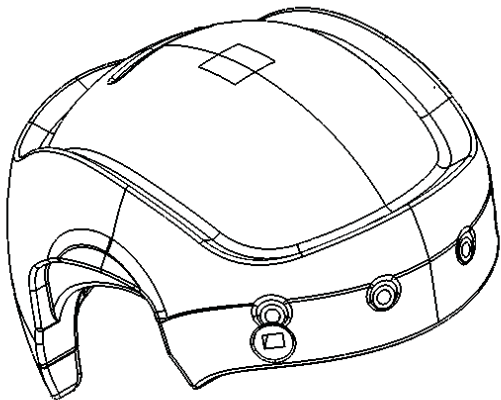
NOTES:

1. FOAM MATERIAL: Loyal Group
GRADE: C-MS: 1.0 - 1.6 mm particle size and 15 - 17 g/l foam density
COLOR: WHITE (PAINTED BLACK)
2. P and MAIN EPS ARE HELD TOGETHER WITH GLUE

REVISION					
REV	ECO	DESCRIPTION	CHECKED	BY	DT-MO-YR
2	EP-xxxxx	INITIAL RELEASE	NAME	NAME	19NOV13



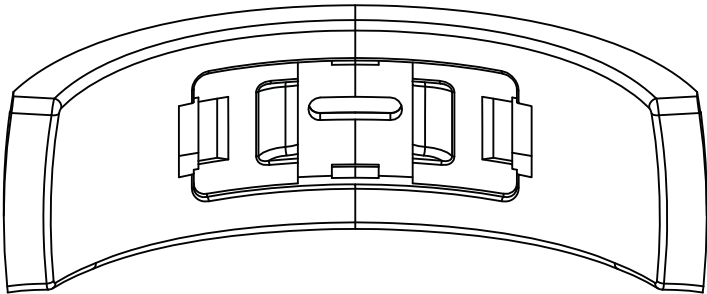
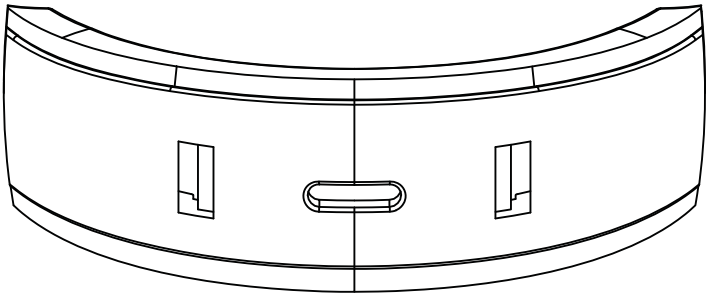
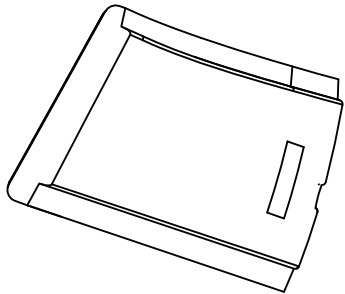
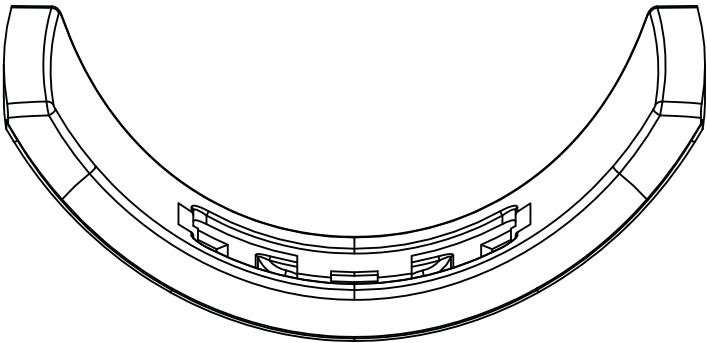
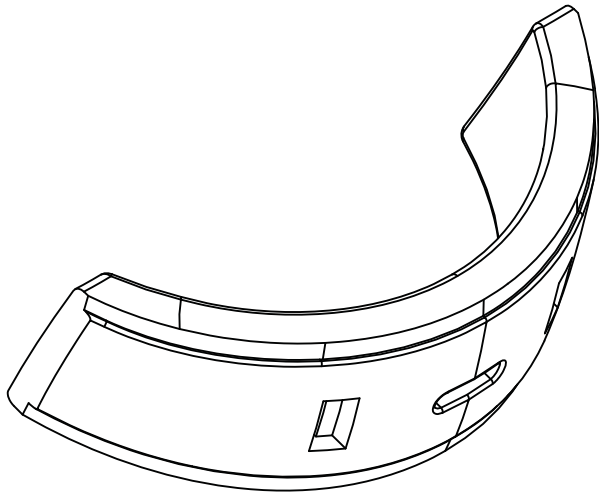
TOOL ID (P Area)	Standard	#Cavity	EPS COLOR	Average Volume (ml)	Density (g/l)	Target Weight (g)	Min. Weight (g)	Max. Weight (g)
P401-S	DOT/ECE/AS	1	WHITE	TBD	20g/l	23g	21	25
P401-M	DOT/ECE/AS	1	WHITE	TBD	20g/l	24g	22	26
P401-XL	DOT/ECE/AS	1	WHITE	TBD	20g/l	26g	24	28



TOOL ID (Main Area)	Standard	#Cavity	EPS COLOR	Average Volume (ml)	Density (g/l)	Target Weight (g)	Min. Weight (g)	Max. Weight (g)
P401-S-1	DOT/ECE/AS	1	WHITE	TBD	30g/l	74g	69	79
P401-M-1	DOT/ECE/AS	1	WHITE	TBD	35g/l	100g	95	105
P401-XL-1	DOT/ECE/AS	1	WHITE	TBD	40g/l	110g	105	115

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	POWERSPORTS		TITLE:		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:		EPS LINER, P401, Carbon		
	DECIMALS MM IN. ANGLES		DWG. SIZE PART NO.		
	X = ± 3.0 ± 0.12		B TABLE		
	X.X = ± 1.0 ± 0.04		SCALE: 1 : 1 CAD FILE: ILLUSTRATOR SHEET: 1 OF 1		
X.XX = ± 0.25 ± 0.01					
X.XXX = ± 0.13 ± 0.005					

REVISION					
REV	ECO	DESCRIPTION	CHECKED	BY	DT-MO-YR
2	EP-xxxxx	INITIAL RELEASE	NAME	NAME	119NOV13



- NOTES:
- FOAM MATERIAL: Loyal Group King Pearl EPS
GRADE: C-SB: 0.6 - 0.9 mm particle size and 19 - 24 g/l foam density
COLOR: WHITE (PAINTED BLACK)
 - FLASH ON MOLDED PART NOT TO EXCEED 0.25 mm

TOOL ID	Standard	#CAVITY	EPS COLOR	Average Volume (ml)	Density (g/l)	Target Weight (g)	Min. Weight (g)	Max. Weight (g)
NA	DOT/ECE/AS	1	WHITE	TBD	75	8	6	10
	DOT/ECE/AS	1	WHITE	TBD	75	8	6	10
	DOT/ECE/AS	1	WHITE	TBD	90	9	7	11

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PRODUCT LINE

POWERSPORTS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

DECIMALS	MM	IN.	ANGLES
X	= ± 3.0	± 0.12	± 1°
X.X	= ± 1.0	± 0.04	
X.XX	= ± 0.25	± 0.01	
X.XXX	= ± 0.13	± 0.005	

BELL SPORTS, INC.

380 ENCINAL STREET
SANTA CRUZ, CALIFORNIA 95060
831.420.4000 FAX: 831.457.4444

BELL

TITLE:

EPS CHINBAR CENTER, P401

DWG. SIZE

PART NO.

TABLE

SCALE:

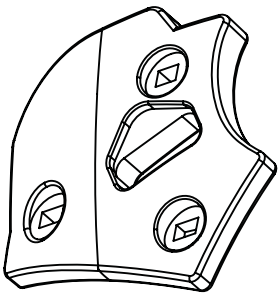
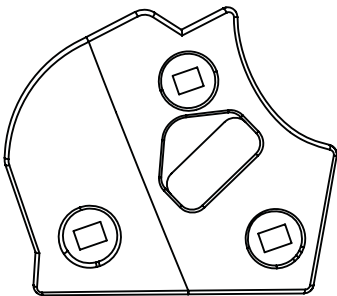
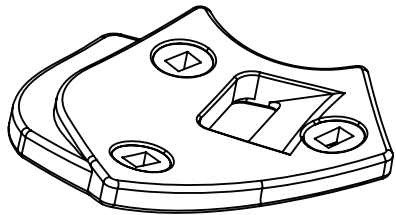
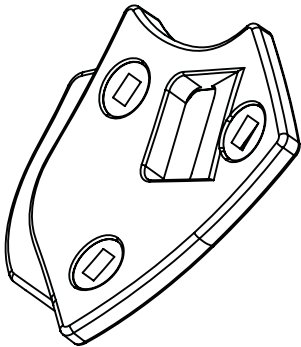
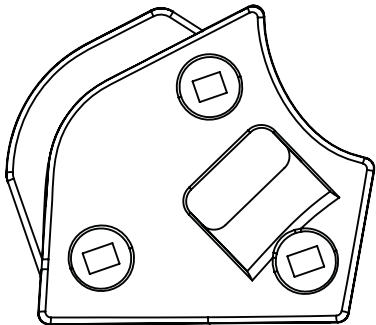
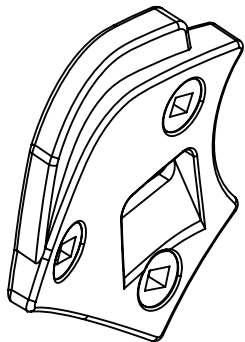
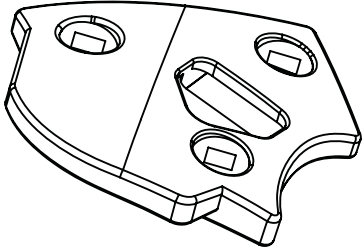
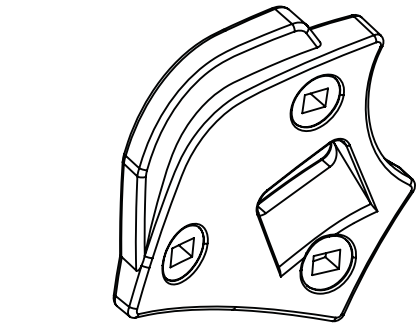
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CAD FILE:

ILLUSTRATOR

SHEET:

1 OF 1



REVISION					
REV	ECO	DESCRIPTION	CHECKED	BY	DT-MO-YR
2	EP-xxxxx	INITIAL RELEASE	NAME	NAME	119NOV13

NOTES:

1. FOAM MATERIAL: Loyal Group King Pearl EPS
GRADE: C-MS: 1.0 - 1.6 mm particle size and 15 - 17 g/l foam density
COLOR: WHITE (PAINTED BLACK)
2. FLASH ON MOLDED PART NOT TO EXCEED 0.25 mm

TOOL ID	Standard	#CAVITY	EPS COLOR	Average Volume (ml)	Density (g/l)	Target Weight (g)	Min. Weight (g)	Max. Weight (g)
PROJECT #1-SIZE RANGE -CAVITY#								
P401-M-1	DOT/ECE/AS	1	WHITE	TBD	70	21	19	23
P401-XL-1	DOT/ECE/AS	1	WHITE	TBD	70	22	20	24
	DOT/ECE/AS	1	WHITE	TBD	70	21	19	23

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PRODUCT LINE

POWERSPORTS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

DECIMALS	MM	IN.	ANGLES
X	= ± 3.0	± 0.12	±1°
X.X	= ± 1.0	± 0.04	
X.XX	= ± 0.25	± 0.01	
X.XXX	= ± 0.13	± 0.005	

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831.420.4000 FAX: 831.457.4444

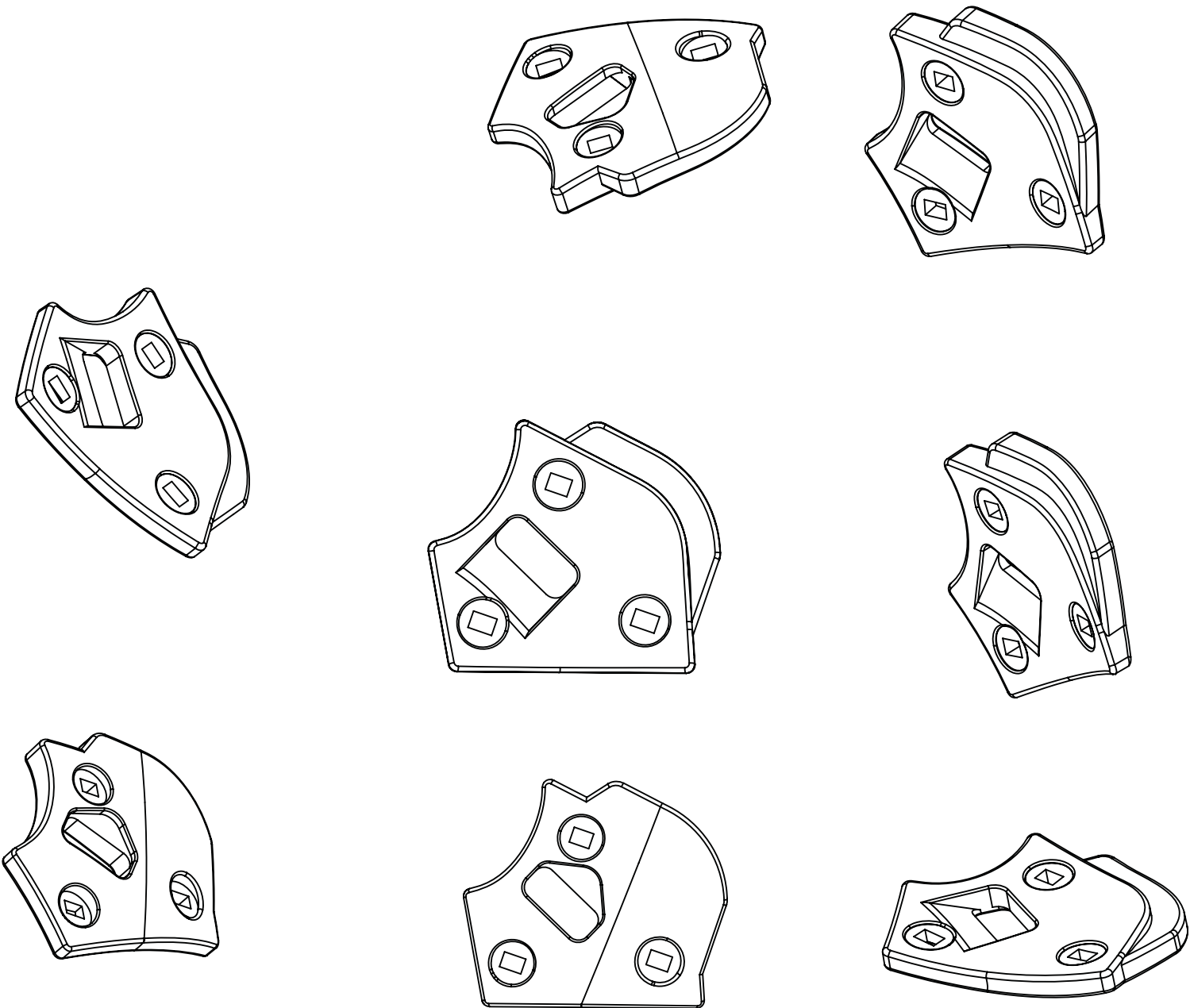
TITLE:

EPS CHINBAR LEFT, P401

DWG. SIZE	PART NO.
B	TABLE

SCALE:	1 : 1	CAD FILE:	ILLUSTRATOR	SHEET:	1 OF 1
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REVISION					
REV	ECO	DESCRIPTION	CHECKED	BY	DT-MO-YR
2	EP-xxxxx	INITIAL RELEASE	NAME	NAME	119NOV13



- NOTES:
- 1. FOAM MATERIAL: Loyal Group King Pearl EPS
GRADE: C-MS: 1.0 - 1.6 mm particle size and 15 - 17 g/l foam density
COLOR: WHITE (PAINTED BLACK)
 - 2. FLASH ON MOLDED PART NOT TO EXCEED 0.25 mm

TOOL ID PROJECT #1-SIZE RANGE--CAVITY#	Standard	#CAVITY	EPS COLOR	Average Volume (ml)	Density (g/l)	Target Weight (g)	Min. Weight (g)	Max. Weight (g)
P401-M-1	DOT/ECE/AS	1	WHITE	TBD	70	21	19	23
P401-XL-1	DOT/ECE/AS	1	WHITE	TBD	70	22	20	24
	DOT/ECE/AS	1	WHITE	TBD	70	21	19	23

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PRODUCT LINE

POWERSPORTS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES ARE:

DECIMALS	MM	IN.	ANGLES
X	= ± 3.0	± 0.12	±1°
X.X	= ± 1.0	± 0.04	
X.XX	= ± 0.25	± 0.01	
X.XXX	= ± 0.13	± 0.005	

BELL SPORTS, INC.

380 ENCINAL STREET
SANTA CRUZ, CALIFORNIA 95060
831.420.4000 FAX: 831.457.4444

TITLE:

EPS CHINBAR RIGHT, P401

DWG. SIZE	PART NO.
B	TABLE

SCALE:	1 : 1	CAD FILE:	ILLUSTRATOR	SHEET:	1 OF 1
--------	-------	-----------	-------------	--------	--------

BULLITT
INTERIOR DETAILS



MESH WILL
NOT BE SEWN DOWN
NEEDS OVER LOCK STITCH
ON EDGES

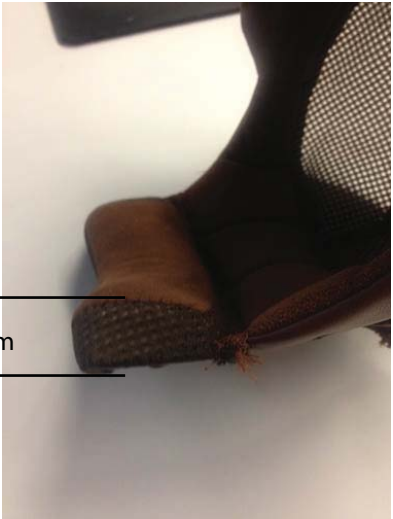
BACKSIDE
Base Top Pad
4mm Base Foam
(NO air mesh)

Base Top pad

Mid Top Pad

Inner Top Pad
(debossed BELL)

Measured Thickness 24mm



MESH
NEEDS OVER LOCK
STITCH



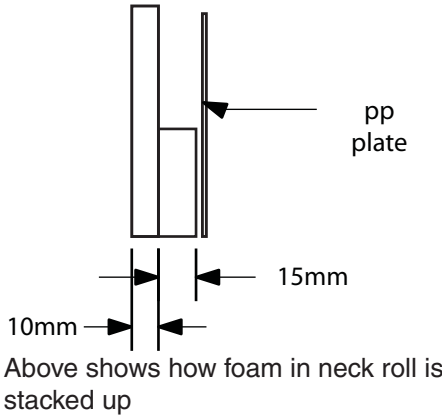
Crown Pad



MID TOP PAD
MICRO FIBER
NO HOLES



Neck Pad



	Foam Type	XS(54-55)	Small(55-56)	Med (57-58)	Lrg(58-59)	XL(60-61)	XXL(62-63)
Top	40D/18D	BASE4mm / MID6mm / 0mm	BASE 4mm /MID 6mm / Inner 0MM	BASE 4mm /MID 6mm / Inner 0MM	4mm/6mm/0mm	4mm/6mm/0mm	4mm/6mm/0mm
Crown	25D	8mm	6mm	8mm	6mm	8mm	6mm
Neck Roll	25D	15mm/10mm	15mm/10mm	15mm/10mm	15mm/10mm	15mm/10mm	15mm/10mm

YC has 3 foam densities

- 40D density (Most Firm)
- 25D density (Firm)
- 18D density (Less Firm)

Micro Fiber is fabric with 6 or 8 glue to fabric
Leather no foam backing

ALL MODELS



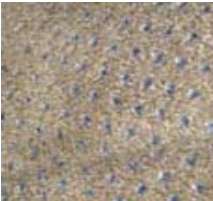
MICRO FIBER FABRIC NOTES:

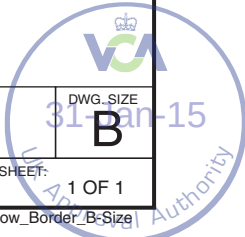
Top Pad: NO HOLES

Cheek Pad: WITH HOLES

Crown Pad: WITH HOLES

Neck Pad: WITH HOLES

LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	18SEP13
				Material: Leather Color: LIGHT BROWN or BLACK YC SPEC:		
				Material: Leather Color: DARK BROWN or BLACK YC SPEC:		
				Material: MICRO FIBER PERFORATED Color: LIGHT BROWN or BLACK YC SPEC:		
				Material: MICRO FIBER Color: LIGHT BROWN or BLACK YC SPEC:		
				Material: SPACER MESH Color: DARK BROWN or BLACK YC SPEC: 3-layer Mesh		
				Material: MESH Color: DARK BROWN or BLACK YC SPEC:MESH MTC-046		
				Material: FISHING TAPE Color: LIGHT BROWN or BLACK YC SPEC:x		



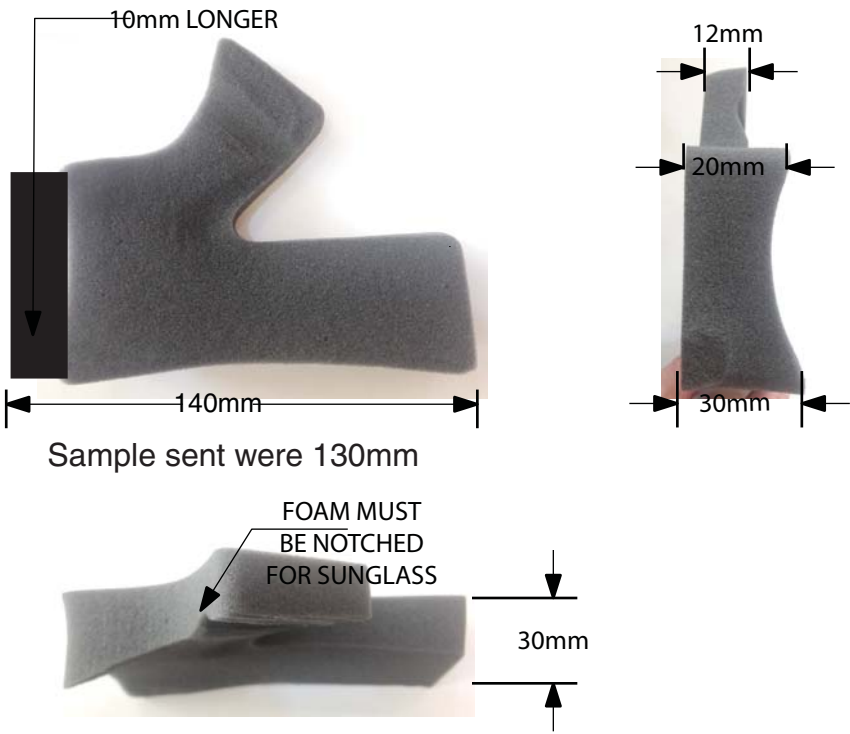
BULLITT
INTERIOR DETAILS

10

LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	25SEP13



Cheek pad (+/- 3mm)						
final size Helmet	Stacked Foam Cheek		Measured			Size Label
	foam thickness	foam density	Dim A	Dim B	Dim C	
XS	3D Foam + 10mm	25D	16mm	40mm	35mm	Handsewn Only 35 mm
S	3D Foam + 5mm	25D	16mm	35mm	30mm	Handsewn Only 30 mm
M	3D Foam + 5mm	25D	16mm	35mm	30mm	Handsewn Only 30 mm
L	3D Foam	25D	16mm	30mm	25mm	Handsewn Only 25 mm
XL	3D Foam + 5mm	25D	16mm	35mm	30mm	Handsewn Only 30 mm
XXL	3D Foam	25D	16mm	30mm	25mm	Handsewn Only 25 mm



YC has 3 foam density
40D density (Firmest)
25D density (Firm)
15D density (Soft)

BULLITT
INTERIOR DETAILS

10

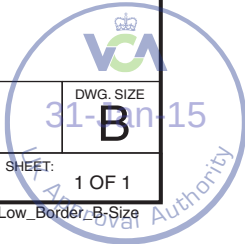
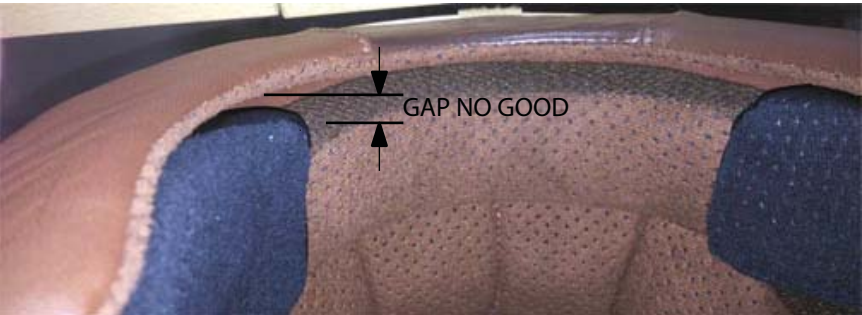
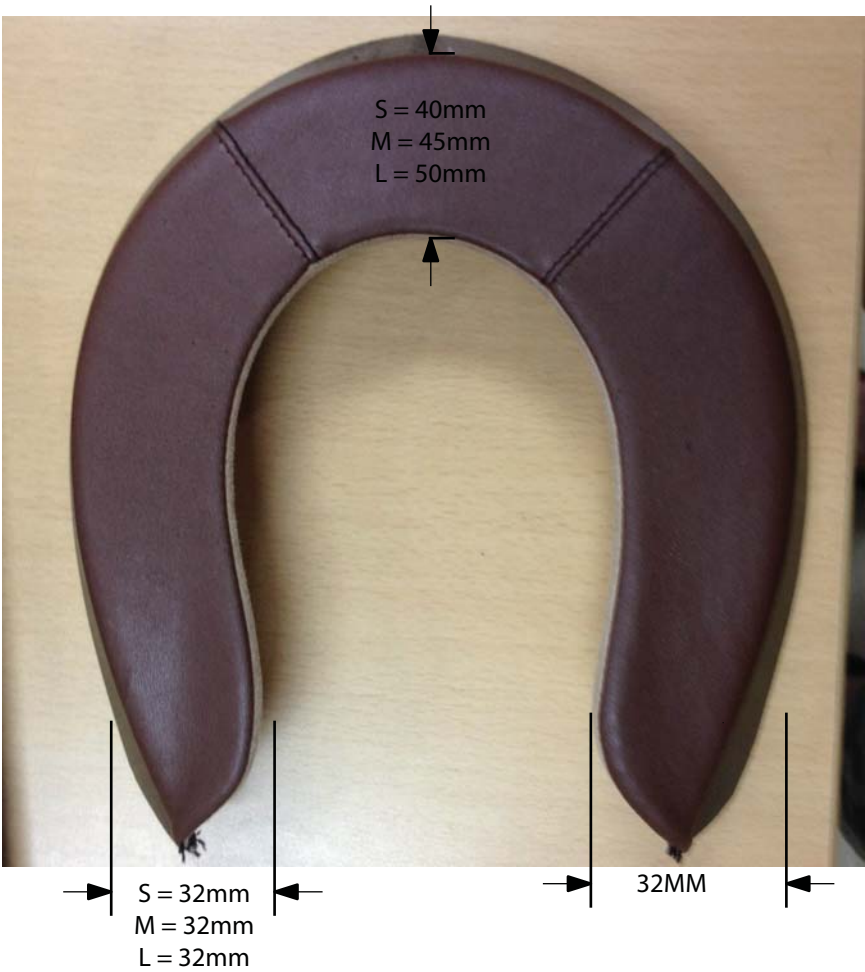
LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	25SEP13

NECK CUTAIN WILL BE FIXED TO HELMET SHELL

3 sizes



OUTSIDE VIEW



LINE	REVISION	ECO	MODEL # / HELMET NAME	CHECKED NAME	BY NAME	DT-MO-YR
POWERSPORTS	1	TBD	INITIAL RELEASE	<->	K.BAKER	20-NOV-13



WEIGHTS 19

NOTES:

- 1. HELMETS WILL BE WEIGHED COMPLETE WITH SHIELD
- 2. ANY HELMET OVER WEIGHT WILL BE REJECTED
- 3. HELMETS UNDER WEIGHT WILL REVIEWED TO DETERMINE WHY THE WEIGHT IS BELOW SPEC

PART TABLE	Shell Size	Target Weight(+/-50grams)	Weight Range
Finished, Bullitt, XSmall & Small	S	1275	1225-1325 grams
Finished, Bullitt, Medium & Large	M	1350	1300-1400grams
Finsihed, Bullitt, XLarge & XXLarge	L	1400	1350-1450grams

QUALIFICATION TESTING UNECE n°22 Series 05 <i>Internal Identification Test: E5HQ</i>	
Job Number	MAQ305269
Report	Code: BULLITT Carbon Qualification Date: 18 December 2014
Manufacturer	Name: Xiamen Yeu Chuan Composite Technology Co., Ltd. Address: No. 60. Xingnan Road, Xinglin, Jimei- Xiamen, China
Representative	It does not apply
Sample	Helmet model: BULLITT CARBON Approval n°: 22R-050536/P Stickers from n°: 1 to n°: 3200 Batch n°: 0 Arrival date: 15/12/2014 Testing date: 16/12/2014

Essential Technical Data		
SIZE RANGE	XS(54) to XXL (63)	
SHELL MATERIAL	Composite Carbon fiber	
WEIGHT	1225 -1450 according to size [gr]	
RETENTION SYSTEM	DD	
REFLECTIVE BANDS	Yes	
ENVIRONMENTAL CONDISTIONS	Temperature	24°
	Humidity	60%

Used Machine	Identifier /Manufacturer	expiry Date
M0015 Tracking point of impact	LTB 1079 (AD Engineering)	Daily Check IO 7.2.13
A0059/M0003 Shock absorption	MAU 1006E/DLS 9000 (AD Engineering)	23/09/2015
M0044 Chin strap resistance	MSD 1009 (AD Engineering)	10/10/2015
M0001 Conditioning chamber: Freezer	ABX 700NE(IARP)	09/09/2015
M0075 Conditioning chamber: Oven	T616/40 (OCRAS E ZAMBELLI)	09/09/2015

<i>The helmets are divided in n°</i>		<i>18 batches</i>	
<i>Group n°</i>	<i>Size</i>		<i>helmets</i>
1	The largest size		10
2	The largest size		10
3	The largest size		10
4	The largest size		10
5	The largest size		10
6	The largest size		10
7	The largest size		10
8	The largest size		10
9	The largest size		10
10	The largest size		10
11	The smallest size		10
12	The smallest size		10
13	The smallest size		10
14	The smallest size		10
15	The smallest size		10
16	The largest size		10
17	The medium size		10
18	The smallest size		10

Gruppe / Batch n° 1						
Helmet size:		XXL				
Headform size:		62				
Impact point:		B				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
92	14-3169	amb	7.50	7,52	2034	207
113	14-3170			7,54	2154	203
83	14-3171			7,5	2030	201
112	14-3172			7,51	1996	195
96	14-3173			7,56	1873	193
90	14-3174			7.58	2036	194
107	14-3175			7,52	2079	201
104	14-3176			7,52	1962	197
101	14-3177			7,52	2055	200
103	14-3178			7,52	1876	193
Mittelwert / Mean of the value						198
Standardabweichung / Standard deviation				$g_m = \sum g_i / 10$		198
				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		5
Bedingung / Condition				$g_m + 2.4 \cdot S \leq 275$		210

Gruppe / Batch n° 2						
Helmet size:		XXL				
Headform size:		62				
Impact point:		X				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC =< 2400	Deceleration =< 275 [g]
87	14-3179	-20	7.50	7,52	1856	238
85	14-3180			7,56	1638	218
93	14-3181			7,5	1715	218
76	14-3182			7,5	1876	218
106	14-3183			7,56	1714	212
111	14-3184			7,56	1687	209
79	14-3185			7,54	1802	212
109	14-3186			7,58	1600	214
82	14-3187			7.58	1820	226
89	14-3188			7.58	1852	217
Mittelwert / Mean of the value					$g_m = \sum g_i / 10$	246
Standardabweichung / Standard deviation					$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	8
Bedingung / Condition					$g_m + 2.4 \cdot S \leq 275$	266

Gruppe / Batch n° 3						
Helmet size:		XXL				
Headform size:		62				
Impact point:		P				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
87	14-3179	-20	7.50	7,52	1991	191
85	14-3180			7,54	1903	178
93	14-3181			7,5	2120	205
76	14-3182			7,54	2069	191
106	14-3183			7,56	1497	165
111	14-3184			7,6	2017	194
79	14-3185			7,56	2040	201
109	14-3186			7,54	1739	185
82	14-3187			7,54	1875	177
89	14-3188			7,54	1902	189
$g_m = \sum g_i / 10$						188
Standardabweichung / Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		12
Bedingung / Condition				$g_m + 2.4 \cdot S \leq 275$		216

Gruppe / Batch n° 4						
Helmet size:		XXL				
Headform size:		62				
Impact point:		R				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Conditioning [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
87	14-3179	-20	7.50	7,5	1991	191
85	14-3180			7,52	1903	178
93	14-3181			7,5	2120	205
76	14-3182			7,52	2069	191
106	14-3183			7,51	1497	165
111	14-3184			7,6	2017	194
79	14-3185			7,52	2040	201
109	14-3186			7,54	1739	185
82	14-3187			7.58	1875	177
89	14-3188			7.58	1932	185
Mittelwert / Mean of the value $g_m = \sum g_i / 10$						187
Standardabweichung / Standard deviation $S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$						12
Bedingung / Condition $g_m + 2.4 \cdot S \leq 275$						216

Gruppe / Batch n° 5						
Helmet size:		XXL				
Headform size:		62				
Impact point:		S				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
110	14-3189	-20	5,50	5,52	793	162
84	14-3190			5,56	736	151
80	14-3191			5,56	794	161
77	14-3192			5,52	733	156
108	14-3193			5,5	771	156
98	14-3194			5,52	747	154
105	14-3195			5,54	838	158
100	14-3196			5,52	765	152
86	14-3197			5,52	843	169
94	14-3198			5,52	850	166
Mittelwert / Mean of the value $g_m = \sum g_i / 10$						159
Standardabweichung / Standard deviation $S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$						6
Bedingung / Condition $g_m + 2.4 \cdot S \leq 275$						173
Gruppe / Batch n° 6						
Helmet size:		L				
Headform size:		57				
Impact point:		B				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
62	14-3199	-20	7.50	7,52	773	128
69	14-3200			7,52	1351	192
70	14-3201			7,5	1327	184
61	14-3202			7,5	1232	173
65	14-3203			7,56	1535	173
42	14-3204			7,52	1760	188
71	14-3205			7,54	1548	185
43	14-3206			7,52	1648	181
59	14-3207			7,52	1629	182
44	14-3208			7,52	1839	183
$g_m = \sum g_i / 10$						177
$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$						18
$g_m + 2.4 \cdot S \leq 275$						220

Gruppe / Batch n° 7						
Helmet size:		L				
Headform size:		57				
Impact point:		X				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
62	14-3199	-20	7.50	7,56	1015	164
69	14-3200			7,52	1864	185
70	14-3201			7,52	1601	177
61	14-3202			7,52	1031	156
65	14-3203			7,56	1202	178
42	14-3204			7,54	1360	183
71	14-3205			7,54	1226	179
43	14-3206			7,54	1384	179
59	14-3207			7,54	1195	169
44	14-3208			7,54	1401	202
Mittelwert / Mean of the value					$g_m = \sum g_i / 10$	177
Standardabweichung / Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	13	
Bedingung / Condition				$g_m + 2.4 \cdot S \leq 275$	207	

Gruppe / Batch n° 8						
Helmet size:		L				
Headform size:		57				
Impact point:		P				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
51	14-3209	-20	7.50	7,5	1830	181
67	14-3210			7,52	1716	170
65	14-3211			7,56	1924	199
60	14-3212			7,52	1954	206
758	14-3213			7,58	1736	181
56	14-3214			7,56	1840	199
54	14-3215			7,54	2152	216
47	14-3216			7,52	1943	197
74	14-3217			7,52	1902	206
72	14-3218			7,54	2076	212
Mittelwert / Mean of the value					$g_m = \sum g_i / 10$	197
Standardabweichung / Standard deviation					$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	15
Bedingung / Condition					$g_m + 2.4 \cdot S \leq 275$	232

Gruppe / Batch n° 9						
Helmet size:		L				
Headform size:		57				
Impact point:		R				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
51	14-3209	AMB	7.50	7,52	1239	171
67	14-3210			7,52	1496	182
65	14-3211			7,56	1351	176
60	14-3212			7,52	1367	181
758	14-3213			7,58	1483	173
56	14-3214			7,52	1627	189
54	14-3215			7,52	1419	174
47	14-3216			7,52	1368	175
74	14-3217			7,52	1306	167
72	14-3218			7,52	1605	188
$g_m = \sum g_i / 10$						178
Standardabweichung / Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		7
Bedingung / Condition				$g_m + 2.4 \cdot S \leq 275$		195

Gruppe / Batch n° 10								
Helmet size:		L						
Headform size:		57						
Impact point:		S						
Anvil:		FLAT						
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]		
73	14-3219	-20	5,50	5,52	774	156		
41	14-3220			5,5	700	158		
58	14-3221			5,56	665	138		
64	14-3222			5,54	784	152		
66	14-3223			5,5	799	153		
53	14-3224			5,52	685	139		
57	14-3225			5,5	718	142		
55	14-3226			5,52	737	151		
52	14-3227			5,6	638	137		
68	14-3228			5,52	644	144		
Mittelwert / Mean of the value						147		
Standardabweichung / Standard deviation				$g_m = \sum g_i / 10$		8		
Bedingung / Condition				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$		166		

Gruppe / Batch n° 11						
Helmet size:		S				
Headform size:		54				
Impact point:		B				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
97	14-3229	-20	7.50	7,5	1522	166
100	14-3230			7,54	1248	169
102	14-3231			7,56	1231	168
92	14-3232			7,56	1380	174
25	14-3233			7,54	1319	181
14	14-3234			7,52	1171	164
24	14-3103			7,5	1034	174
29	14-3104			7,52	1112	163
15	14-3105			7,52	1103	164
20	14-3106			7,52	1214	182
$g_m = \sum g_i / 10$						171
Standardabweichung / Standard deviation $S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$						7
Bedingung / Condition $g_m + 2.4 \cdot S \leq 275$						187

Gruppe / Batch n° 12						
Helmet size:		S				
Headform size:		54				
Impact point:		X				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
97	14-3229	-20	7.50	7,52	1191	198
100	14-3230			7,54	1172	197
102	14-3231			7,54	1085	182
92	14-3232			7,58	1164	219
25	14-3233			7,6	866	176
14	14-3234			7,6	1055	173
24	14-3103			7,5	1084	181
29	14-3104			7,54	889	175
15	14-3105			7,54	947	162
20	14-3106			7,54	1087	208
Mittelwert / Mean of the value					$g_m = \sum g_i / 10$	187
Standardabweichung / Standard deviation				$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	18	
Bedingung / Condition				$g_m + 2.4 \cdot S \leq 275$	230	

Gruppe / Batch n° 13						
Helmet size:		S				
Headform size:		54				
Impact point:		P				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
97	14-3229	-20	7.50	7,52	1644	213
100	14-3230			7,52	1509	176
102	14-3231			7,52	1593	180
92	14-3232			7,51	1581	176
25	14-3233			7,5	1598	185
14	14-3234			7,5	1579	179
24	14-3103			7,51	1576	175
29	14-3104			7,52	1551	187
15	14-3105			7,52	1564	175
20	14-3106			7,54	1500	188
Mittelwert / Mean of the value					$g_m = \sum g_i / 10$	183
Standardabweichung / Standard deviation					$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	12
Bedingung / Condition					$g_m + 2.4 \cdot S \leq 275$	211

Gruppe / Batch n° 14						
Helmet size:		S				
Headform size:		54				
Impact point:		R				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration [g]
36	14-3107	amb	7.50	7,52	1119	151
15	14-3108			7,52	1101	148
30	14-3109			7,52	1107	153
7	14-3110			7,59	1028	146
29	14-3111			7,52	1096	146
33	14-3112			7,5	1171	157
37	14-3113			7,5	1181	153
20	14-3114			7,52	1185	152
16	14-3115			7,52	1165	162
34	14-3116			7,52	1145	144
$g_m = \sum g_i / 10$						151
Standardabweichung / Standard deviation $S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$						6
Bedingung / Condition $g_m + 2.4 \cdot S \leq 275$						164

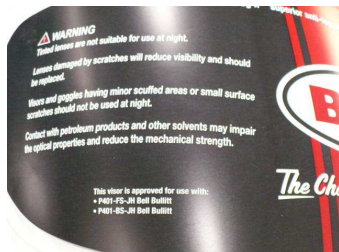
Gruppe / Batch n° 15						
Helmet size:		S				
Headform size:		54				
Impact point:		S				
Anvil:		FLAT				
Sticker n°	Helmet Internal Id	Condition ing [°C]	Speed [m/s]	Real speed [m/s]	HIC <= 2400	Deceleration <= 275 [g]
8	14-3117	-20	5,50	5,52	389	114
32	14-3118			5,52	228	89
87	14-3119			5,54	482	125
17	14-3120			5,52	386	108
26	14-3121			5,54	528	125
14	14-3122			5,52	648	141
22	14-3123			5,5	404	114
28	14-3124			5,52	515	119
19	14-3125			5,6	375	115
31	14-3126			5,52	579	125
Mittelwert / Mean of the value					$g_m = \sum g_i / 10$	118
Standardabweichung / Standard deviation					$S = \left[\sum (g_i - g_m)^2 / 9 \right]^{1/2}$	14
Bedingung / Condition					$g_m + 2.4 \cdot S \leq 275$	150

RETENTION SYSTEM STRENGTH TEST

Gruppe / Batch n° 16			Gruppe / Batch n° 17		
Helmet size: XL DD			Helmet size: M DD		
Conditioning AMB			Conditioning AMB		
Stickers n°	Din. Exten. ≤35 [mm]	Res. Exten. ≤25 [mm]	Stickers n°	Din. Exten. ≤35 [mm]	Res. Exten. ≤25 [mm]
122	26	4	45	22	5
99	25	6	50	21	6
95	23	4	118	21	6
102	25	5	49	21	5
120	24	5	39	22	5
81	23	6	117	21	6
121	24	5	48	22	5
97	25	5	40	21	6
91	24	4	46	23	5
78	25	5	119	21	6
Xm	24,4	8,0	Xm	21,5	8,0
S	1,0	3,3	S	0,7	2,7
Xm+2,4*S	27	16	Xm+2,4*S	23	14

Gruppe / Batch n° 18		
Helmet size: XS DD		
Conditioning AMB		
Stickers n°	Din. Exten. ≤35 [mm]	Res. Exten. ≤25 [mm]
115	25	10
9	26	10
10	25	9
13	25	8
21	26	8
21	25	9
2	26	10
114	25	9
6	25	10
1	26	9
116	25,4	8,0
S	0,5	1,5
Xm+2,4*S	27	12

INFORMATION FOR WEARERS
Ref. 14

LABELLING		Result	
Reference	Test	Description or image	
	Method of Attachment to helmet at point of sale: - ...		
Specifies the following:			
14.1	"For adequate protection, this helmet must fit closely and be securely attached. Any helmet that has sustained a violent impact should be replaced"	PASS	
	if fitted with a non protective lower face cover: "Does not protect chin from impacts" together with the symbol indicating the unsuitability of the lower face cover to offer any protection against impacts to the chin.	NAP	
14.2	specific warning in the above-mentioned label: " 'Warning' - Do not apply paint, stickers, petrol or other solvents to this helmet".	PASS	
14.4	Bears a label showing the type or types of visor that have been approved at the manufacturer's request:		

MARKING		Result
Reference	Test	Description or image
	Method of Marking to the helmet: - ..	
Specifies the following:		
14.3	Protective helmet is clearly marked with its size and its maximum weight, to the nearest 50 grams, as placed on the market.	

THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM

Laboratory Technician
(Adolfo Garlando)

Adolfo Garlando

Laboratory Manager
(Juan Pablo Cuesta)

Juan Pablo Cuesta

CERTIFICATION TESTING UNECE n°22 Series 05 <i>Internal Identification Test: E5HC</i>	
Job Number	MAQ305269
Report	Code: Bullitt Carbon Homologation 141014 Date: 14 October 2014
Manufacturer	Name: Xiamen Yeu Chuan Composite Technology Co., Ltd. Address: No. 60. Xingnan Road, Xinglin, Jimei- Xiamen, China
Representative	It does not apply
Sample	Helmet model: BULLITT CARBON Approval n°: - Stickers from n°: - to n°: - Batch n°: - Arrival date: 11/10/2014 Testing date: 14/10/2014

Essential Technical Data	
SIZE RANGE	XS(54) to XXL (63)
SHELL MATERIAL	Composite Carbon fiber
WEIGHT	g 1275± 50 – g 1400 ± 50 according to size [gr]
RETENTION SYSTEM	DD
REFLECTIVE BANDS	Yes

ENVIRONMENTAL CONDITIONS	Temperature	25°
	Humidity	60%

Used Machine	Identifier /Manufacturer	expiry Date
M0015 Tracking point of impact	LTB 1079 (AD Engineering)	Daily Check IO 7.2.13
A0059/M0003 Shock absorption	MAU 1006E/DLS 9000 (AD Engineering)	23/09/2014
M0044 Chin strap resistance	MSD 1009 (AD Engineering)	10/10/2014
M0001 Conditioning chamber: Freezer	T616/40 (OCRAS E ZAMBELLI)	11/09/2014
M0075 Conditioning chamber: Oven	ABX 700NE(IARP)	11/09/2014
M0030 Compressibility	CTE 1068 (AD Engineering)	21/05/2015
M0033 Chin strap efficiency	ROL 1103/E (AD Engineering)	27/05/2015

The helmet was tested in the different configurations with internal sun visor and other critical components.

BULLITT



GENERAL SPECIFICATION TEST			
Sizes:		XS (54/55)-S (55/56) M (57/58)-L (58/59) –XL-61/62) –XXL(62-63)	
Reference	General Specification	Result	
		Pass (or N/A)	Fail
6.1	Hard shell	X	
6.1	Impact absorption system (see test data in this report)	X	
6.1	Retention system	X	
6.2	Marked “Does not protect chin from impacts” (if applicable)	N/A	
6.4.1	Extent of protection	X	
6.4.2	Nape cylinder	X	
6.4.3	Protective padding	X	
6.5	Outer round surface – Auditive faculties	X	
6.6	Projections (2 mm)	X	
6.7	Rivets (h 2 mm, r 1 mm; h 2mm, r 2mm)	X	
6.8	Helmet interior	X	
6.9	Assembly	X	
6.10	Chin strap abrasion	X	
6.11 - 6.11.1	Retention system – Chin strap breadth (20 mm)	X	
6.11.2	Under-chin	X	
6.11.3	Chin strap regulation system	X	
6.11.4	Rigid parts	X	
6.11.5	Buckle – “Double D” or “Roll”	X	
6.11.6	Open strip	NAP	
6.11.7	Quick release (general requirement)	NAP	
6.11.8	Quick release (tests par. 7.3, 7.6, 7.7)	NAP	
6.11.9	Wrong buckle use	X	
6.12	Material properties (manufacturer declaration)	X	
6.13	Helmet breaking	X	
6.14, 6.14.3.1 6.14.3.2 6.14.3.3	Peripheral vision:	Lateral visual clearance 105°	X
		Upward visual clearance 7°	X
		Downward visual clearance 45°	X
6.16.1 to 6.16.6	Reflective parts (see test reports)	X	

SPECIFICATION	
H.F. Size	54 to 63
Impact point	B / P / X / R / S
Anvil	Kerbstone / Flat
Conditioning [°C]	
AMB	20 °C ± 5 °C with a relative humidity of 65% ± 5%, for more than 4 hours
LOW	-20 °C ± 5 °C , for more than 4 hours and less than 6 hours
HIGH	+50 °C ± 5 °C , for more than 4 hours and less than 6 hours
UV+H ₂ O	Ultraviolet radiation by a 125-watt xenon- 48 hours Water spray 4 to 6 hours, 1 litre per minute
Speed [m/s]	7.5 m/s + 0.15 m/s (5.5 + 0.15 m/s for the S point)
HIC	≤2400
Deceleration	≤ 275

SHOCK ABSORPTION TESTS

Ref. 7.3

Helmet size XXL(63-64)- BULLITT CARBON								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤2400	Deceleration ≤ 275 [g]
-	14-2563	62	B	PIA	AMB	7.54	1651	183
			X	PIA		7.54	1460	210
			P	PIA		7.52	1704	189
			R	PIA		7.50	1246	181
-	14-2564	62	B	KERB	AMB	7.52	1422	159
			X	KERB		7.57	1290	198
			P	KERB		7.58	1061	151
			R	KERB		7.58	1078	139
-	14-2565	62	B	KERB	+50	7.58	1159	156
			X	KERB		7.54	1224	167
			P	KERB		7.54	900	142
			R	KERB		7.58	1080	146
-	14-2566	62	B	PIA	-20	7.58	1548	174
			X	PIA		7.56	1516	210
			P	PIA		7.55	1453	163
			R	PIA		7.58	1096	167
			S	PIA		5.52	638	130
-	14-2567	62	B	PIA	UV +WET	7.50	1674	181
			X	PIA		7.57	1714	216
			P	KERB		7.56	927	146
			R	KERB		7.50	1141	152

Helmet size XL(61-62)- BULLITT CARBON								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
-	14-2568	62	B	KERB	+50	7.52	1286	146
			X	KERB		7.50	876	142
			P	PIA		7.60	1472	162
			R	PIA		7.52	1302	169
-	14-2569	62	B	PIA	-20	7.52	1590	185
			X	PIA		7.54	1350	192
			P	KERB		7.57	969	143
			R	KERB		7.54	1161	154
			S	PIA		5.57	351	114

Helmet size M(58-59)- BULLITT CARBON								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤2400	Deceleration ≤ 275 [g]
-	14-2386	57	B	PIA	AMB	7.52	867	147
			X	PIA		7.54	1105	175
			P	PIA		7.50	1567	175
			R	PIA		7.52	1321	204
-	14-2387	57	B	KERB	AMB	7.52	1386	178
			X	KERB		7.54	968	153
			P	KERB		7.54	1085	157
			R	KERB		7.54	1115	180
-	14-2388	57	B	KERB	+50	7.54	1195	161
			X	KERB		7.54	1099	176
			P	KERB		7.54	1101	185
			R	KERB		7.54	1114	170
-	14-2389	57	B	PIA	-20	7.54	1860	187
			X	PIA		7.54	1377	186
			P	PIA		7.54	1813	192
			R	PIA		7.54	1255	159
			S	PIA		5.50	287	79
-	14-2390	57	B	PIA	UV +WET	7.50	1789	186
			X	PIA		7.57	1143	178
			P	KERB		7.56	1378	166
			R	KERB		7.50	1008	226

Helmet size (58)- BULLITT CARBON								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
-	14-2388	57	B	KERB	+50	7.54	1336	159
			X	KERB		7.52	923	146
			P	PIA		7.60	1719	174
			R	PIA		7.50	1362	170
-	14-2389	57	B	PIA	-20	7.52	1427	191
			X	PIA		7.52	1526	240
			P	KERB		7.56	1145	213
			R	KERB		7.54	1251	186
			S	PIA		5.57	428	118

Helmet size S(56)- BULLITT CARBON								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤2400	Deceleration ≤ 275 [g]
-	14-2380	54	B	PIA	AMB	7.52	1284	159
			X	PIA		7.52	845	154
			P	PIA		7.52	1350	153
			R	PIA		7.54	1119	171
-	14-2381	54	B	KERB	AMB	7.52	1207	167
			X	KERB		7.52	786	136
			P	KERB		7.52	1088	148
			R	KERB		7.56	863	152
-	14-2382	54	B	KERB	+50	7.57	1129	154
			X	KERB		7.60	700	146
			P	KERB		7.54	1088	159
			R	KERB		7.52	941	160
-	14-2383	54	B	PIA	-20	7.52	1228	177
			X	PIA		7.52	1096	179
			P	PIA		7.52	1472	172
			R	PIA		7.50	1345	172
			S	PIA		5.52	636	141
-	14-2384	54	B	PIA	UV +WET	7.58	1239	162
			X	PIA		7.50	924	173
			P	KERB		7.54	1084	130
			R	KERB		7.52	929	152

Helmet size XS(54)- BULLITT CARBON								
Sticker n°	Helmet Internal Id	H.F. Size	Impact point	Anvil	Cond. [°C]	Speed [m/s]	HIC ≤ 2400	Deceleration ≤ 275 [g]
-	14-2398	54	B	PIA	+50	7.52	1197	145
			X	PIA		7.50	651	111
			P	KERB		7.52	1394	170
			R	KERB		7.50	1129	155
-	14-2399	54	B	KERB	-20	7.58	1202	182
			X	KERB		7.65	1082	191
			P	PIA		7.62	974	131
			R	PIA		7.61	856	163
			S	PIA		5.56	578	105

RETENTION SYSTEM STRENGTH TEST Ref. 7.6					
Helmet BULLITT				Extension	
Sticker n°	Helmet Internal Id	Size	Chin strap	Dynamic 35 [mm]	Residual 25 [mm]
-	14-2571	XL	DD	23	7

ROLL OFF TEST Ref. 7.7				
Sticker n°	Helmet Internal Id	Helmet Size	Chin strap	Roll off Angle ≤ 30°
-	14-2571	XL	DD	19

RETENTION SYSTEM STRENGTH TEST Ref. 7.6					
Helmet BULLITT				Extension	
Sticker n°	Helmet Internal Id	Size	Chin strap	Dynamic 35 [mm]	Residual 25 [mm]
-	14-2399	XS	DD	24	6

ROLL OFF TEST Ref. 7.7				
Sticker n°	Helmet Internal Id	Helmet Size	Chin strap	Roll off Angle ≤ 30°
-	14-2399	XS	DD	14

RETENTION SYSTEM STRENGTH TEST Ref. 7.6				
Helmet BULLITT				Extension
Sticker n°	Helmet Internal Id	Size	Chin strap	Dynamic 35 [mm] Residual 25 [mm]
-	14-2396	M	DD	27 5

ROLL OFF TEST Ref. 7.7			
Sticker n°	Helmet Internal Id	Helmet Size	Chin strap Roll off Angle $\leq 30^\circ$
-	14-2396	M	DD 16

TEST FOR PROJECTION AND SURFACE FRICTION METHOD B					
Helmet Client Id	Helmet Internal Id	Test	Tested Point	Result	
				Pass	Fail
BULLITT C	14-2385	Surface	Side right	X	-

RIGIDITY TEST Ref. 7.5						
Helmet BULLITT			Load Direction	Deformation [mm]		
Sticker n°	Helmet Internal Id	Size		Initial (load 30N)	Max 40 [mm] (load 630N)	Final 15 [mm] (load 30N)
-	14-2570	XXL	Longitudinal	1	17	2
-	14-2571	XXL	Transversal	1	12	2

RIGIDITY TEST Ref. 7.5						
Helmet BULLITT			Load Direction	Deformation [mm]		
Sticker n°	Helmet Internal Id	Size		Initial (load 30N)	Max 40 [mm] (load 630N)	Final 15 [mm] (load 30N)
-	14-2391	L	Longitudinal	1	19	2
-	14-2392	L	Transversal	1	9	1

RIGIDITY TEST Ref. 7.5						
Helmet BULLITT			Load Direction	Deformation [mm]		
Sticker n°	Helmet Internal Id	Size		Initial (load 30N)	Max 40 [mm] (load 630N)	Final 15 [mm] (load 30N)
-	14-2385	S	Longitudinal	1	18	2
-	14-2385	S	Transversal	1	10	2

REFLECTIVE PARTS			
		Result	
Reference	Test	Pass or N/A	Fail
6.16.2	Reflective parts (Geometry requirements)	PASS	
6.16.3	Reflective parts (Colorimetric requirements)	PASS	
6.16.4	Reflective parts (Photometric requirements)	PASS	
6.16.5	Reflective parts (Resistance to external agents requirements)	PASS	
6.16.6	Reflective parts (Compatibility of materials requirements)	PASS	

THE SAMPLES TESTED MEET THE REQUIREMENTS OF THE REFERENCE NORM.

Laboratory Technician
(Adolfo Garlando)

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(Juan Pablo Cuesta)

