



# HELLBENDER™ TE

## PREMIUM HELMET SYSTEM

### ENHANCED SHELL GEOMETRY FOR INCREASED BALLISTIC PROTECTION

**THE HELLBENDER™ TE** combines the performance of the U.S. Army's Advanced Combat Helmet (ACH) with an enhanced shell geometry. Its unique shape provides increased rear ballistic protection, while offering increased structural rigidity and improved impact protection.



#### KEY FEATURES

- Hybridized layer construction with Ultra High Molecular Weight Polyethylene (UHMWPE) ballistic core
- Available in four (4) sizes, two (2) cuts, with APEX Liner
- The Mid/Full cut provides the ideal balance between full coverage and easy comms integration
- Additional modular accessories (Front Shroud and Rails) take from Clean to Mission-Ready configuration
- Compatible with Face Shields, NVGs, Chem/Bio Masks and Communication Devices

#### DESIGNED TO THE FOLLOWING PERFORMANCE STANDARDS

- Modified and abbreviated NIJ 0106.01 / NIJ 0101.06 IIIA THREATS
- Modified and Abbreviated U.S. Army AR/PD 14-01, dated September 30<sup>th</sup>, 2015

#### PHYSICAL CHARACTERISTICS

- **AREAL DENSITY:** 1.68 lbs/ft<sup>2</sup> (8.20 kg/m<sup>2</sup>)
- **THICKNESS:** 0.310 in (7.87 mm)

#### HELMET CUTS



MID/FULL CUT

HIGH CUT

#### COLORS



TAN499

RANGER  
GREEN

BLACK

|                                      | SMALL                                       | MEDIUM                                      | LARGE                                       | X-LARGE                                     |
|--------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| <b>CIRCUMFERENCE</b>                 | < 22 ½ in<br>(< 570 mm)                     | 21 ¼ - 23 ¼ in<br>(540 - 590 mm)            | 22 - 24 ¼ in<br>(560 - 615 mm)              | 23 ¼ - 25 ½ in<br>(590 - 650 mm)            |
| <b>COVERAGE (MID/FULL CUT)</b>       | 170 in <sup>2</sup> (1097 cm <sup>2</sup> ) | 179 in <sup>2</sup> (1155 cm <sup>2</sup> ) | 190 in <sup>2</sup> (1225 cm <sup>2</sup> ) | 216 in <sup>2</sup> (1393 cm <sup>2</sup> ) |
| <b>WEIGHT* (MID/FULL CUT SHELL)</b>  | 2.00 lbs (0.90 kg)                          | 2.06 lbs (0.94 kg)                          | 2.32 lbs (1.05 kg)                          | 2.62 lbs (1.19 kg)                          |
| <b>WEIGHT* (MID/FULL CUT SYSTEM)</b> | 2.88 lbs (1.31 kg)                          | 2.98 lbs (1.35 kg)                          | 3.26 lbs (1.48 kg)                          | 3.59 lbs (1.63 kg)                          |

System = Painted Shell, NVG Shroud, Rails, Apex Liner System.

\*Weights indicated are nominal. Actual weight may vary.

|               | DESIGNED TO                                     | PERFORMED TO         |
|---------------|-------------------------------------------------|----------------------|
| PROJECTILE    | NIJ 0106.01 / NIJ 0101.06 IIIA THREATS          |                      |
| .357 SIG      | 1440 - 1500 ft/s (439 - 457 m/s)                | Pass                 |
| .44 MAG SJHP  | 1400 - 1460 ft/s (427 - 445 m/s)                | Pass                 |
| PROJECTILE    | V <sub>50</sub> BL(P)                           |                      |
| 2-grain RCC   | 4200 ft/s (1280 m/s)                            | 4440 ft/s (1353 m/s) |
| 4-grain RCC   | 3475 ft/s (1059 m/s)                            | 4044 ft/s (1233 m/s) |
| 16-grain RCC  | 2475 ft/s (754 m/s)                             | 2734 ft/s (833 m/s)  |
| 17-grain FSP  | 2200 ft/s (671 m/s)                             | 2360 ft/s (719 m/s)  |
| 64-grain RCC  | 1750 ft/s (533 m/s)                             | 1979 ft/s (603 m/s)  |
| SHOT LOCATION | 9 mm RTP/BTD AT VELOCITY OF 1400 ft/s (427 m/s) |                      |
| Crown         | 25.4 mm (1.0 in)                                | Pass                 |
| Left/Right    | 25.4 mm (1.0 in)                                | Pass                 |
| Front         | 25.4 mm (1.0 in)                                | Pass                 |
| Rear          | 25.4 mm (1.0 in)                                | Pass                 |

## BLUNT IMPACT

- Designed to < 150G in all locations for 10 ft/s (3 m/s) impact

## ENVIRONMENTAL CONDITIONS

- Designed to Ambient 70°F (21°C), Extreme hot 160°F (71°C), Extreme cold -60°F (-51°C), Immersion in seawater at 70°F (21°C) IAW ASTM D1141-98, Immersion in gasoline at 70°F (21°C) IAW ASTM D910

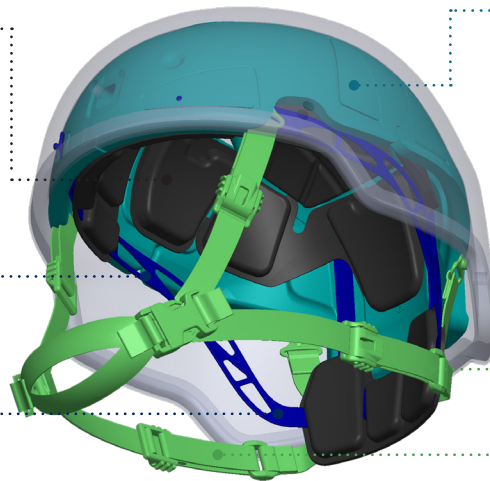
## APEX LINER

### COMFORT LINER

- Removable & repositionable pads for a custom, user-optimized fit
- Offers stability and mitigates heat build up
- Easily field replaceable; hygiene replacement kits available

### FITBAND

- Infinitely adjustable using dial mechanism
- Can be positioned at different heights to accommodate user's head shape
- Easily removable to suit user preference; liner functions without fit band



### IMPACT LINER

- 2-piece full coverage impact liner with modular crown pads
- Meets U.S. Army, EN397 and other stringent blunt impact protection requirements, achieved by changing crown impact pads
- Simple, user-friendly installation and replacement

### RETENTION SYSTEM

- Tensioners enable easy adjustment; no loose straps
- Height adjustable nape pad for NVG stability
- Leather-lined chin cup offers comfort and stability



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**WARRANTY:** Galvion offers a 10 year warranty on Ballistic Hellbender Helmet shells and 1 year on helmet components (internal and external). Please go to [www.galvion.com/warranty](http://www.galvion.com/warranty) for the complete limited warranty. The Hellbender Helmet is controlled for export by the U.S. Export Administration Regulations (EAR). The export of this helmet and related technical information requires prior authorization from the U.S. Government.