

TBH-R1

Tactical Ballistic Helmet



TBH-R1 (Low Cut Mission Configured)

- Best-in-class protection: Rifle, handgun, fragmentation, and impact
- Weight equivalent to traditional ACH with hybrid construction of aramid, carbon, and ultra-high molecular weight polyethylene (UHMWPE)
- Durable structural design integrating carbon fiber technology
- Features an Ops-Core® Modular Bungee Shroud (MBS) for compatibility with most NVG mounts, and optional Ops-Core ARC™ Rails, and external VELCRO® Brand fastener
- Scalable design allows for compatibility with Ops-Core visors, mandibles, handgun face shields, and ballistic appliques
- Available with two combination suspension/retention options

SPECIFICATIONS

Gentex Performance Specification for Tactical Ballistic Helmet R1: PS-1378, including portions of:

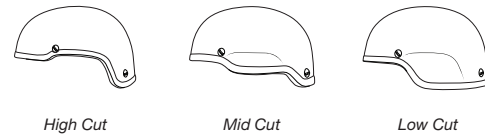
- *Modified and Abbreviated US Army Advanced Combat Helmet AR/PD 10-02*
- *NIJ Standard 0108.01 Ballistic Materials Level IIIA Threats Tested in Accordance with NIJ 0106.01*
- *NIJ Draft Specification for Ballistic Materials, Level RF-1 Tested in Accordance with NIJ 0106.01*

Small Arms Protection

Projectile	Min. Resistance to Penetration (ft/s)	Min. Resistance to Penetration (m/s)
7.62x51 NATO M80 Ball, 150gr (9.7g)	2,400 (+50/-0)	732 (+15/-0)

Handgun Protection

Projectile	Min. Resistance to Penetration (ft/s)	Min. Resistance to Penetration (m/s)	Max. Back Face Deformation (in/mm)
9mm FMJ RN, 124gr	1,470 (+50/-0)	448 (+15/-0)	< 1.00 in/25.4mm (front/back) < 0.63 in/16.0mm (sides/crown)
.44 Mag 240g SWGCC	1,430	436	N/A
9mm x 18mm SJLC, 105gr	1,017	310	N/A
7.62mm x 25mm SJLC, 86gr	1,475	450	N/A
.40 Cal S&W, GDHP 180gr	1,025	312	N/A



High Cut

Mid Cut

Low Cut

Color Options

Helmet Shell:



Retention Systems:



Fragmentation Protection

Projectile	Minimum V50 (ft/s)	Minimum V50 (m/s)
2-grain RCC	6,090	1,856
4-grain RCC	5,040	1,536
16-grain RCC	3,590	1,094
64-grain RCC	2,540	774
17-grain (1.1g) FSP	3,190	972

Minimum 45% increase above ACH requirements per AR/PD 10-02. Actual performance significantly higher.

Blunt Impact Protection: <150 G's at 10 ft/s per GL/PD 09-04

Compression Testing: Top-Bottom = .020" (0.51 mm) Max @ 400 lbs (181.44 kg), Side-Side = .125" (3.18 mm) Max @ 300 lbs (136.08 kg) per GL/PD 09-04

Environmental Resistance: Temperature Storage and Operating at Ambient, Cold -60° F (-51° C), and Hot +130° F (54° C), Temperature Shock, Flame Resistance, Altitude, Vibration, Seawater, Field Agent Resistance, and Weatherometer per GL/PD 09-04

Shell Construction: Two-Stage Non Slit

Areal Density: 2.32 lbs./ft² (113.27g/dm²)

Shell Thickness: 0.450" (11.43 mm)

Shell Geometry (Curvature): US Army ACH

Cut Styles (Side Protection): Low Cut (Standard Cut), Mid Cut, High Cut

Available Sizes: Small (S), Medium (M), Large (L), X-Large (XL)

Shell Sizing & Square Coverage

Head Size (Circumference)	Small	Medium	Large	X-Large
	Up to 21 ¼ in (538 mm)	21 ¼ in – 22 ½ in (538 mm – 573 mm)	22 ½ - 23 ½ in (573 mm – 597 mm)	23 ½ and over (597 mm and over)
Low Cut	152.52 in ² (984 cm ²)	163.22 in ² (1053 cm ²)	173.60 in ² (1120 cm ²)	190.65 in ² (1230 cm ²)
Mid Cut	152.21 in ² (982 cm ²)	157.48 in ² (1016 cm ²)	167.25 in ² (1079 cm ²)	179.96 in ² (1161 cm ²)
High Cut	137.95 in ² (890 cm ²)	146.01 in ² (942 cm ²)	156.86 in ² (1012 cm ²)	164.30 in ² (1060 cm ²)

Shell Weights

Shell Weight (Shell with Paint & Edge Band)	Small	Medium	Large	X-Large
Low Cut	2.44 lbs. (1105 g)	2.56 lbs. (1163 g)	2.70 lbs. (1226 g)	2.90 lbs. (1316 g)
Mid Cut	2.35 lbs. (1064 g)	2.48 lbs. (1123 g)	2.56 lbs. (1163 g)	2.79 lbs. (1266 g)
High Cut	2.12 lbs. (961 g)	2.27 lbs. (1028 g)	2.37 lbs. (1073 g)	2.60 lbs. (1181 g)

System Weights (Size Large)

Suspension/Retention Option	Low Cut	Mid Cut	High Cut
Ops-Core Lux Pux / Universal Occ-Dial Fitband	3.56 lbs. (1613 g)	3.48 lbs. (1579 g)	3.29 lbs. (1491 g)
Ops-Core Lux Pux / H-Nape	3.47 lbs. (1572 g)	3.39 lbs. (1538 g)	3.20 lbs. (1450 g)

Note: All measurements are +/- 3% tolerance

İletişim

Gentex Norbo Korunma Teknolojileri A.Ş.
Başkent OSB Başkent Bulvarı No:49
Malıköy, Sincan-Ankara/Turkey

Tel:+90 312 640 1585-86-87
Fax:+90 312 640 1590
info@gentexnorbo.com