

GENTEX[®]

TBH-II

Tactical Ballistic Helmet

- Offered in low, mid, or high cut design.
- Shell made of a monolithic composite of Woven Aramid.
- Balance of weight and coverage offers protection against handgun, fragmentation, blunt force trauma, compression and environmental threats.
- Available with seven combination suspension/retention options.

SPECIFICATIONS

Performance Specification: Gentex TBH-II Helmet Performance Specification PS-0428

Modified and Abbreviated US Army ACH Helmet CO/PD-05-04: 2007 Specification¹

NIJ Standard: Modified and Abbreviated NIJ Standard 0106.01 Ballistic Helmets using NIJ Standard 0108.01 Ballistic Materials Level IIIA Threat (9mm 124gr FMJ RN at 1400 fps only)

Handgun Protection¹:

Projectile	Minimum Resistance to Penetration (ft/s)	Minimum Resistance to Penetration (m/s)	Maximum Back Face Deformation (in/mm)
9mm 124gr FMJ RN	1,400 (+50/-0)	427 (+15/-0)	< 1.00 in/25.4mm (front/back) < 0.63 in/16.0mm (sides/crown)

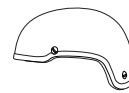
Fragmentation Protection:

Projectile	Minimum V50 (ft/s)	Minimum V50 (m/s)
2-grain RCC	4,200	1,280
4-grain RCC	3,475	1,059
16-grain RCC	2,475	754
64-grain RCC	1,750	533
17-grain (1.1g) FSP	2,200	670

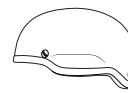
V50 – Baseline testing of the helmet sample where the stated threat and velocity will penetrate 50% of the time and stop 50% of the time.



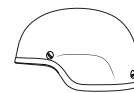
TBH-II
(Low Cut)



TBH-II
(High Cut)



TBH-II
(Mid Cut)



TBH-II
(Low Cut)

Color Options:

TBH-II:



Retention Systems:



Blunt Impact Protection: <150 G's at 10 ft/s per ACH CO/PD 05-04:2007²

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 ACH CO/PD 05-04:2007

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 ACH CO/PD 05-04:2007

Shell Construction: Two Stage Six Slit

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

Shell Thickness: 0.310" (7.87 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)

¹Team Wendy Pad Kit is the only combination suspension/retention option tested to the full US Army ACH Helmet CO/PD : 2007 Specification

²Gentex Adj-8 Pad combination suspension/retention options meet <250 G's at 10 ft/s per modified and abbreviated ACH CO/PD 05-04:2007

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	2.46 lbs. (1115 g)	2.59 lbs. (1175 g)	2.73 lbs. (1240 g)	2.93 lbs. (1330 g)
Mid Cut	2.37 lbs. (1075 g)	2.50 lbs. (1135 g)	2.59 lbs. (1175 g)	2.82 lbs. (1280 g)
High Cut	2.14 lbs. (970 g)	2.29 lbs. (1040 g)	2.39 lbs. (1085 g)	2.63 lbs. (1195 g)

System Weights (Size Large):

Suspension/Retention Option	Low Cut	Mid Cut	High Cut
Ops-Core 360 Liner/H-Nape	3.13 lbs. (1419 g)	2.98 lbs. (1354 g)	2.79 lbs. (1264 g)
Ops-Core 360 Liner/X-Nape	3.11 lbs. (1412 g)	2.97 lbs. (1347 g)	2.77 lbs. (1257 g)
Gentex Adj 8-Pad/H-Nape	3.24 lbs. (1470 g)	3.10 lbs. (1405 g)	2.90 lbs. (1315 g)
Gentex Adj 8-Pad/X-Nape	3.23 lbs. (1464 g)	3.08 lbs. (1399 g)	2.88 lbs. (1309 g)
Team Wendy Zorbium® Action Pad (ZAP™) 7-Pad NSN /H-Nape	3.15 lbs. (1427 g)	3.00 lbs. (1362 g)	2.80 lbs. (1272 g)
Team Wendy Zorbium® Action Pad (ZAP™) 7-Pad NSN /X-Nape	3.13 lbs. (1420 g)	2.99 lbs. (1355 g)	2.79 lbs. (1265 g)

Note: All measurements are +/- 3% tolerance

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