

PROTECTION LEVELS AND TECHNICAL SPECS OF BALLISTIC HELMETS



HELMETS	FAST SF (High Cut)	FAST XP (Mid Cut)	SENTRY XP (Low Cut)	TBH-III A (Low Cut)	TBH-R1 (Low Cut)	TBH-R1 (Mid Cut)	TBH-R1 (High Cut)
TESTS (PROTECTION)	LEVEL IIIA						
Technical Specification	30 June 2017 Modified Ops-Core Performance Specifications FAST SF PS-1228	US ARMY Portions of ACH CO/PD-05-04:2007	US ARMY ACH Specification CO/PD-05-04:2007	Modifiye US Marine Corps MICH Type II Helmet FQ/PD 06-35C FAT No.2 21 Oct 2013	Gentex Performance Specification TBH R1:PS-1378, NIJ 0106.01 Level RF-1		
2 grain (V50)	4200 f/s (1280 m/s)	4200 f/s (1280 m/s)	4200 f/s (1280 m/s)	4200 f/s (1280 m/s)	% 45 more protection	1856 m/s	
4 grain (V50)	3475 f/s (1059 m/s)	3475 f/s (1059 m/s)	3475 f/s (1059 m/s)	3475 f/s (1059 m/s)		1536 m/s	
16 grain (V50)	2475 f/s (754 m/s)	2475 f/s (754 m/s)	2475 f/s (754 m/s)	2475 f/s (754 m/s)		1094 m/s	
64 grain (V50)	1750 f/s (533 m/s)	1750 f/s (533 m/s)	1750 f/s (533 m/s)	1750 f/s (533 m/s)		774 m/s	
17 grain/1.1g FSP gram (V50)	2297 f/s (700 m/s)	2378 f/s (725 m/s)	2380 f/s (725 m/s)	2200 f/s (670 m/s)		972 m/s	
9mm FMJ RN (V0 0°)	1195 f/s (364 m/s)	1400 f/s (427 m/s)	1400 f/s (427 m/s)	1400 f/s (427 m/s)		448 m/s	
7.62x51 NATO M80 Ball (V0 0° 9,70 gram)	-	-	-	-		732 m/s	
TESTS (OTHERS)							
Blunt Impact	ACH CO/PD 05-04:2007 2 impacts on 7 location with 10 ft/s velocity all measurement <150G ambient, hot and cold conditions						
Compression Resistance	MICH Type II FQ/PD 06-35:C2013 Top-Bottom: 0.020" (0.51 mm) max dimentional change at @400lb (181kg), Side-Side: 0.125" (3.175 mm) max dimentional change at @300lb (136kg)						
Environmental	ACH CO/PD 05-04:2007 Storage/Operation; Cold -60° F (-51C), Hot +160° F (71C), Flame Resistance (2 sn), Altitude (15000'-40000'), Sea Water Submersion (3 hrs), Corrosion Resistance (24 hrs)						
GENERAL							
Areal Density	59.57 gr/dm ²	77.14 gr/dm ²	78.12 gr/dm ²	113.27 gr/dm ²	113.27 gr/dm ²		
Shell Thickness	5.58mm	7.37mm	7.37mm	7.87mm	11.43mm		
Shell Geometry	Super High Cut	High Cut	Mid Cut	Low Cut	Low Cut	Mid Cut	High Cut
Sizes	M, L, XL, XXL	M, L, XL, XXL	M, L, XL, XXL	S, M, L, XL, XXL	S, M, L, XL		
Colors	Tan, Foliage Green, Black, Multicam, Desert Marpat, Urban Gray	Urban Tan, Foliage Green, Black, Multicam, Desert Marpat	Urban Tan, Foliage Green, Black, Multicam, Desert Marpat	Urban Tan, Foliage Green, Black, Coyote Brown, Desert Tan, Urban Gray, UN Blue	Tan, Green, Black, Multicam, Urban Gray		
Shell Weight	655 gr	853 gr	921 gr	1240 gr	1126 gr	1163 gr	1073 gr
System Weight	1019 gr	1243 gr	1284 gr	1464 gr	1572 gr	1538 gr	1450 gr

All measurements are +-%3 tolerance, Size L



ACCESSORIES	FAST VISOR	FACE SHIELD	MANDIBLE SENTRY	MOTO VISOR	SIDE ARMOR	MANDIBLE FAST	BALLISTIC APPLIQUE
TESTS (BALLISTIC PROTECTION)	LEVEL IIIA						
Technical Specification	MIL DTL-43511D	US Army Portions of ACH CO/PD-05-04:2007	US Army Portions of ACH CO/PD-05-04:2007	MIL DTL-43511D	US Army Portions of ACH CO/PD-05-04:2007	US Army Portions of ACH CO/PD-05-04:2007	Ops-Core PS-1090 RevE Ballistic Applique
2 grain (V50)	-	-	-	-	4200 f/s (1280 m/s)	4075 f/s (1242 m/s)	-
4 grain (V50)	-	-	-	-	3475 f/s (1059 m/s)	3450 f/s (1051 m/s)	-
16 grain (V50)	-	-	-	-	2475 f/s (754 m/s)	2425 f/s (739 m/s)	-
64 grain (V50)	-	-	-	-	-	1700 f/s (518 m/s)	-
17 grain/1.1 FSP gram (V50)	825 f/s (251 m/s)	-	1800 f/s (549 m/s)	825 f/s (251 m/s)	2200 f/s (670 m/s)	-	-
9mm FMJ RN(V0 0° Eğim)	-	1400 f/s (427 m/s)	1400 f/s (427 m/s)	-	1200 f/s (366 m/s)	1195 f/s (364 m/s)	-
7.62x39mm PS-Ball (MSC)	-	-	-	-	-	-	732 m/s (w helmet)
Other	Weight 280 gr	Weight 1315 gr	Weight 460 gr	Weight 261 gr	Weight 261 gr (pair-slim)	Weight 460 gr	Thickness :10,54mm, Wei 404 gr

All measurements are +-%3 tolerance, Size L