

NIJ STANDARD—0101.06 | SOFT ARMOR REFERENCE CHART

SHOT AND PANEL VARIANCE		
	NIJ 0101.04	NIJ 0101.06
PANEL SAMPLES REQUIRED	6 (IIA-III A)	28 (IIA-III A) 22 lg & 6 sm
PANEL SIZE	One size req.	Two template sizes req.
SHOTS/PANEL	6	6
SHOT SPACING	2" min	Shots 1-3, 2" min, new edge distance; Shots 4-6, 3.94" circle max spread
ANGLES	30 deg. (shot 4 & 5)	30 & 45 deg. (shot 4 OR 5)
EDGE	3" minimum	2" minimum 9mm & .357 SIG
WET TESTING	6 min. spray	30 min. full immersion
BALLISTIC LIMIT TESTING	1st round only 9mm (24 shots)	1st & 2nd rounds (per NIJ type) (120 shots ea.)
BACKFACE REQUIREMENT	2 meas.<44mm	3 meas.<44mm 2nd meas. for all>40mm One outlier permitted
FAILURE MECHANISM	Complete penetration (bullet or fragment)	Perforation of the armor by any portion of the projectile

PROJECTILE AND VELOCITY VARIANCE			
NIJ 0101.04		NIJ 0101.06 (CHANGE)	
IIA	Ref. Velocity	IIA	Test Velocity
9mm	1120 ±30	9mm	1225 ±30 (+105)
.40 Cal.	1055 ±30	.40 Cal.	1155 ±30 (+100)
II		II	
9mm	1205 ±30	9mm	1305 ±30 (+100)
.357 Mag.	1430 ±30	.357 Mag.	1430 ±30 (NC)
IIIA		IIIA	
9mm	1430 ±30	.357 SIG	1470 ±30 (Round)
.44 Mag.	1430 ±30	.44 Mag.	1430 ±30 (NC)

ENVIRONMENTAL CONDITIONING

- Rotary tumbler at 149°F and 80% relative humidity
- One batch of 8 panels (6 lg and 2 sm)
- Cycle for 72,000 (±1500) cycles at 5 (±1) RPM=>10 days
- Tested against both threats at reduced velocity

Type	Round	Conditioned Armor Test Velocity (ft/s)
IIA	9mm (-60 ft/s)	1165
	.40 Cal. (-90 ft/s)	1065
II	9mm (-90 ft/s)	1245
	.357 Mag. (-90 ft/s)	1340
IIIA	.357 SIG (-60 ft/s)	1410
	.44 Mag. (-90 ft/s)	1340



READY IS THE ONLY OPTION.

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www.gharmorsystems.com



2016 PRODUCT CATALOG



READY IS THE ONLY OPTION.







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• Clean Front Carrier [CFC]

• EMS Carrier [EMS]

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• Firearms Instructor Carrier [FIC]

• Quilted Outer Carrier [QOC]

TACTICAL

• Atlas T3 / T5 / T7

• QUAD

• International SWAT

• Active Shooter Kit [ASK]

HARD ARMOR

• Special Threats / Rifle Plates

• Ballistic / Riot Helmets

• Ballistic / Riot Shields

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**GH Armor Systems**, located in Dover, Tennessee, is a leading provider of high-performance

protective solutions  
to the military, federal  
and law enforcement

communities. With more than 30 years of experience, GH offers a comprehensive portfolio of advanced armor solutions that includes concealable, tactical and correctional products designed for superior wearability and protection. All GH Armor Systems products are precision engineered to meet the highest industry standards for quality, reliability and safety.

**gharmorsystems.com**

Visit us online for additional information and resources including Online Sizing Submission, Distributor Locator, BVP Application Support, Warranty Registration and more.

# NIJ STANDARDS & DESIGN



GH Armor Systems is committed to providing a solution for every threat. Whether duty calls for protection from bullets, spiked weapons or both, GH has you covered. All products are designed to meet and exceed federal test standards. The tables below identify baseline threats tested during certification. Special threat testing is available for select models and performed at NIJ-certified independent test facilities.



NIJ STANDARD—0101.06   BALLISTIC RESISTANCE				
	BULLET CALIBER & TYPE	BULLET WEIGHT (GRAINS)	NEW ARMOR VELOCITY (FT/S)	CONDITIONED ARMOR (FT/S)
THREAT LEVEL IIA	9mm FMJ	124	1225	1165
	.40 S&W FMJ	180	1155	1065
THREAT LEVEL II	9mm FMJ	124	1305	1245
	.357 Magnum JSP	158	1430	1340
THREAT LEVEL IIIA	.357 SIG FMJ	125	1470	1410
	.44 Magnum SJHP	240	1430	1340
THREAT LEVEL III	7.62mm (M80 U.S. Military)	147	N/A	2780
THREAT LEVEL IV	.30 Caliber Armor Piercing Rifle Round (M2 AP)	166	N/A	2880

NIJ STANDARD—0115.00   STAB RESISTANCE				
	“E1” STRIKE ENERGY		“E2” OVERTEST STRIKE ENERGY	
	JOULES (J)	FT•LBF	JOULES (J)	FT•LBF
SPIKE LEVEL 1	24 ± 0.50	17.7 ± 0.36	36 ± 0.60	26.6 ± 0.44
SPIKE LEVEL 2	33 ± 0.60	24.3 ± 0.44	50 ± 0.70	36.9 ± 0.51
SPIKE LEVEL 3	43 ± 0.60	31.7 ± 0.44	65 ± 0.80	47.9 ± 0.59

# MALE & FEMALE VEST DESIGN

Male and female bodies are simply different. Then why should male and female armor be made the same? They shouldn't. GH Armor Systems design engineers have created male and female models – over 1,000 sizes of each – in our most popular packages to ensure optimal fit and coverage for every body type.

## MALE & NON-STRUCTURED FEMALE

All GH models are available in male and non-structured female designs. With more than 30 years of experience, we know that every body type is different and sometimes that means a non-structured fit is better for some women. Our primary goal is simple: to provide you with the best fit. You can be comfortable knowing that each custom-sized female vest is reviewed by one of our Product Design Group specialists and backed by our 60-Day Fit Guarantee.



## STRUCTURED FEMALE

Separately certified from the male models, our structured female designs are specifically created to fit all of the possible shapes and curves of the female form. We've identified the nine measurements that are crucial to finding just the right size and use those to create your custom-sized vest. Our structured female vests include proprietary, contoured bust design and seaming to provide a smooth, natural and sculpted fit. Available in Helix and LiteX series.

An improper fit is the primary cause of uncomfortable armor. While we maintain a first-time fit rate of over 98%, GH Armor Systems offers a 60-Day Fit Guarantee for all custom-sized vests. Should the wearer deem their armor in need of alteration – bigger, smaller, longer,



shorter – the vest may be returned within 60 days of original shipment to GH for one alteration at no charge. Please note the Fit Guarantee does not apply to vests ordered in stock sizes. Visit our website or contact GH Customer Service to learn more.

# TIERED SOLUTIONS

## PREMIUM



- Premium lightweight solution
- Unmatched softness and comfort
- Special-threat tested
- Available in Levels II & IIIA

## PERFORMANCE



- Perfect combination of price and performance
- Design focus on wearability
- Special-threat tested
- Available in Levels II & IIIA

## VALUE



- Protection with emphasis on value
- Meets latest NIJ standard for varied duties
- Available in Levels IIA, II & IIIA

## MULTI-THREAT



- Defeats both ballistic and spike threats
- Designed for protection and comfort
- Available in Level II/2

## CORRECTIONS



- Protection against spike threats
- Extremely lightweight and flexible
- Available in Levels 1, 2 & 3



# BALLISTICS

## MISSION OBJECTIVE: WEARABILITY

Weight is not the only determinant of a comfortable vest. GH Armor Systems understands that there are a variety of factors that contribute to a vest that is wearable. Through rigorous design and testing, solutions are optimized not only to reduce weights, but also to improve flexibility, softness and comfort. Whether on deployment or working an extended shift, the only kind of vest that works is a vest that is worn. WEARABILITY INCREASES SURVIVABILITY.



**SPECIAL THREAT TESTING** is available for select models and performed at NIJ certified independent test facilities. NIJ test protocol certifies models to specific performance standards, while special threat testing uses the same facilities and conditions to test popular rounds specific to regional threats.

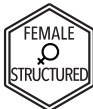


## PREMIUM LIGHTWEIGHT SOLUTIONS FOR ABSOLUTE COMFORT.

LEVELS II IIIA

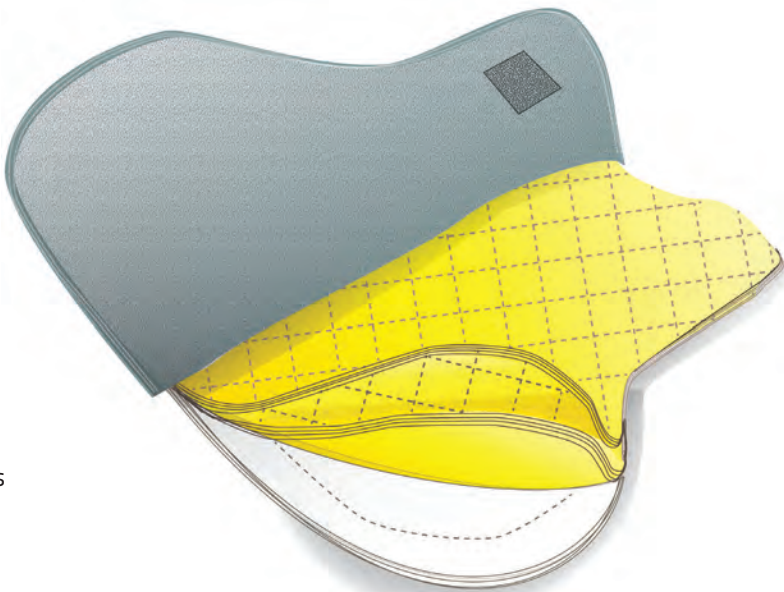
The first and last choice when the requirement for comfort is absolute. The HeliX series offers a level of comfort and flexibility that is difficult to achieve in lightweight packages.

- Hybrid designs featuring Kevlar®, Spectra Shield® and Goldshield®
- Available in male and structured female designs
- Special threat tested (see website for details)
- Water-resistant panel cover with heat-sealed seams
- Exclusively patented ballistic desiccant for moisture management



DuPont™  
**KEVLAR®**

**Honeywell**



## THE PERFECT COMBINATION OF PRICE AND PERFORMANCE.

LEVELS II IIIA

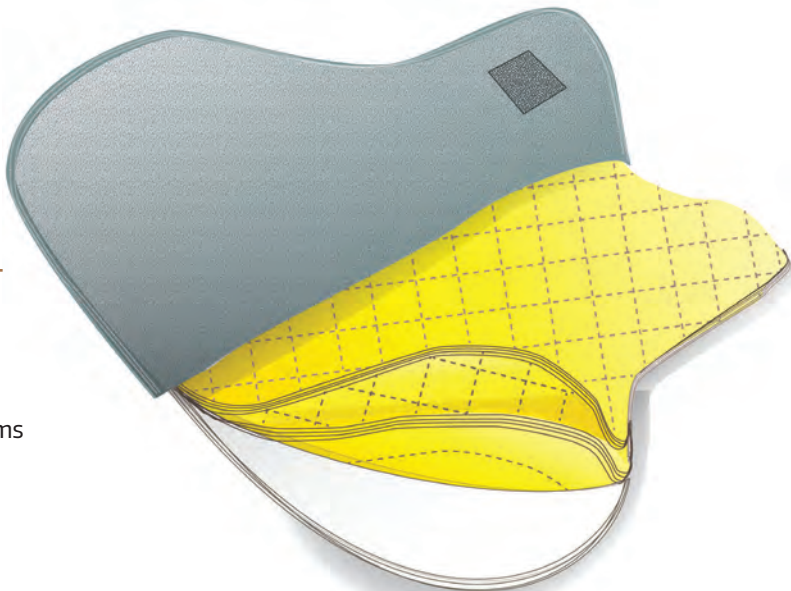
The LiteX series provides superior protection and increased trauma performance with a focus on wearability, making it the workhorse of the line.

- Hybrid designs featuring Twaron® and Gold Flex®
- Available in male and structured female designs
- Special threat tested (see website for details)
- Water-resistant panel cover with heat-sealed seams
- Exclusively patented ballistic desiccant for moisture management



**Twaron®**  
The power of Aramid

**Honeywell**



## COMPLETE PROTECTION WITH AN EMPHASIS ON VALUE.

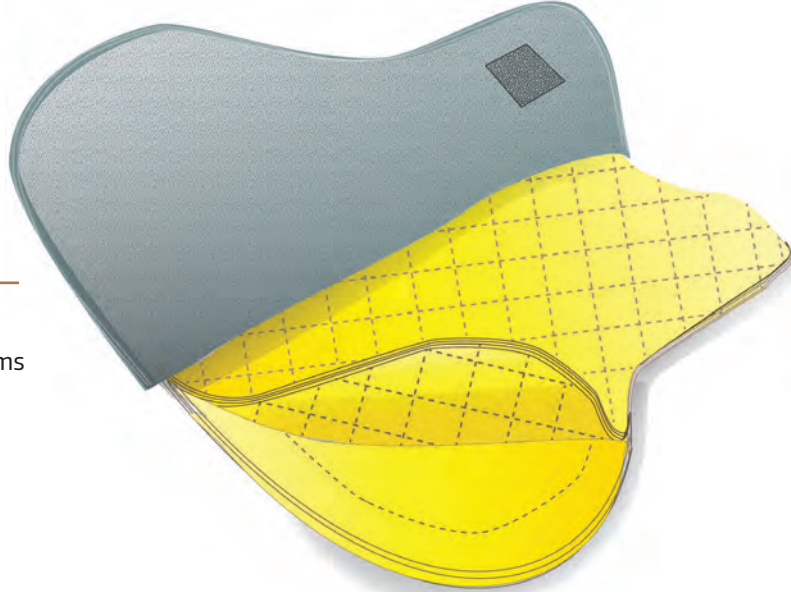
LEVELS IIA II IIIA

The ProX series offers access to NIJ Standard-0101.06 protection at an affordable price. Delivering both extreme value and availability in custom-sized solutions.

- Aramid Laminate construction
- Water-resistant panel cover with heat-sealed seams
- Exclusively patented ballistic desiccant for moisture management



**Twaron®**  
The power of Aramid





CORRECTIONS

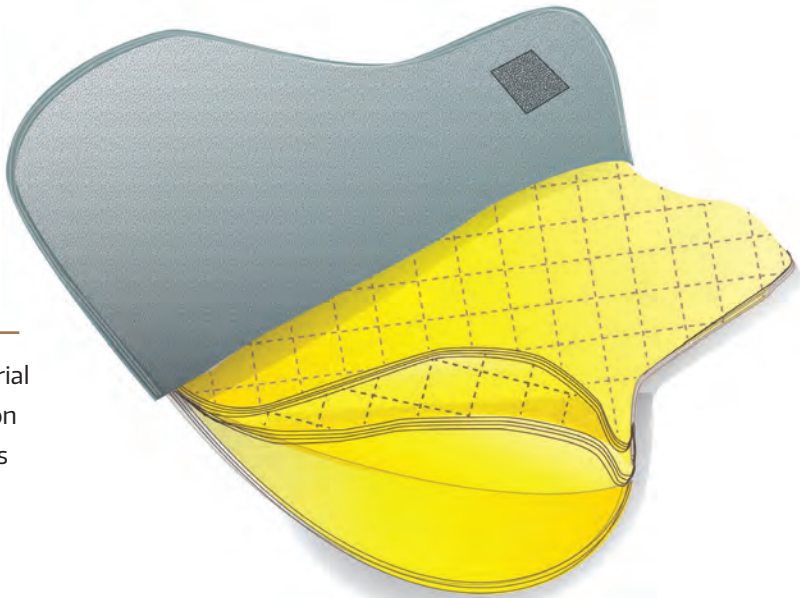


ADVANCED PROTECTION  
AGAINST MULTIPLE THREATS.

LEVEL II/2

The TalonX II/2 is the answer for multiple-threat environments. Certified to both NIJ Standard-0101.06 and 0115.00, provides ballistic Level II and spike Level 2 protection. Hybrid Kevlar® construction provides exceptional reliability.

- Hybrid design featuring Kevlar® Correctional™ material
- Dual-threat certified for ballistic and spike protection
- Water-resistant panel cover with heat-sealed seams
- Exclusively patented ballistic desiccant for moisture management



DuPont™ KEVLAR® Honeywell

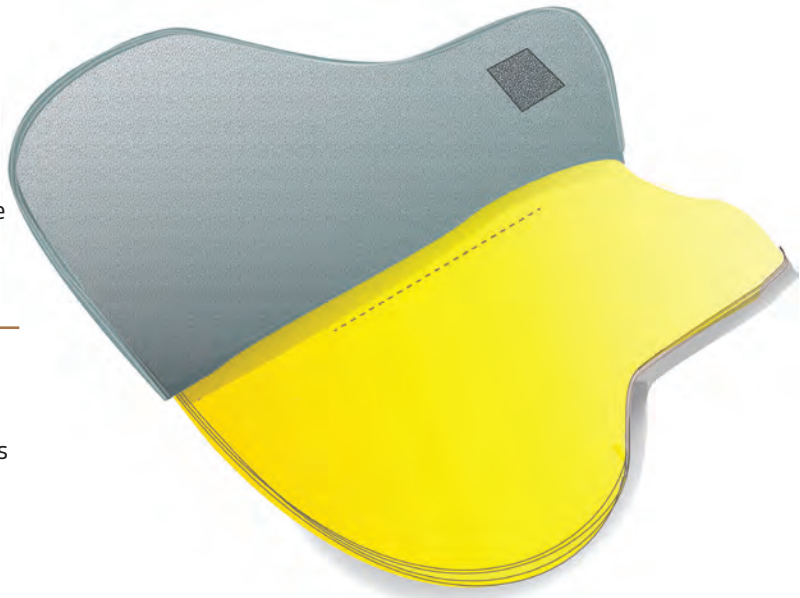


YOUR STOP FOR SPIKE PROTECTION.

LEVELS 1 2 3

The Talon series offers correctional officers varied levels of spike protection. Engineered from proven Kevlar® Correctional™ material, lightweight and flexible solutions. Compatible with concealable or external carriers for mission adaptability.

- Featuring Kevlar® Correctional™ material
- Certified to three levels of spike protection
- Water-resistant panel cover with heat-sealed seams
- Exclusively patented ballistic desiccant for moisture management



DuPont™ KEVLAR®



CARRIERS

NIJ STANDARDS & DESIGN

BALLISTICS

CORRECTIONS

CARRIERS

TACTICAL

HARD ARMOR

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