

# TECHNICAL SPECIFICATIONS 400 SERIES BALLISTIC INSERTS

## BI 4400 LEVEL IV STAND ALONE - SINGLE CURVE

NIJ Certified



THICKNESS: 0.93 in (24 mm)

### SHOOTER CUT - SINGLE CURVE - TORSO PLATES

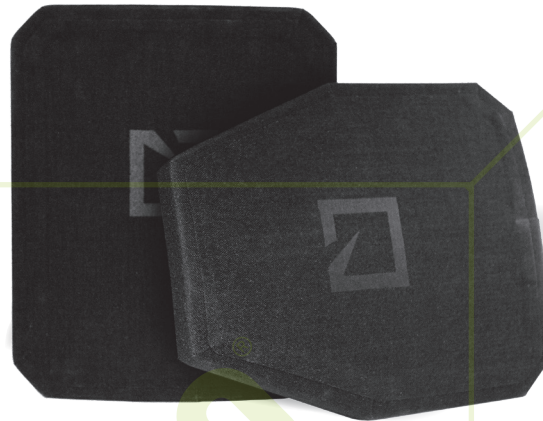
PART NUMBER	WIDTH x LENGTH	WEIGHT
4400-SH-SC-L	10.0 x 12.0 in (254 x 305 mm)	7.5 lb (3.4 kg)
4400-SH-SC-S	8.0 x 10.0 in (203 x 254 mm)	4.9 lb (2.2 kg)

### FULL CUT - SINGLE CURVE - TORSO PLATES

PART NUMBER	WIDTH x LENGTH	WEIGHT
4400-FC-SC-L	10.0 x 12.0 in (254 x 305 mm)	8.4 lb (3.8 kg)
4400-FC-SC-S	8.0 x 10.0 in (203 x 254 mm)	5.4 lb (2.5 kg)



Recommended side plate pairing: BI 4101



#### Manufacturing Tolerances:

Thickness dimensions are  $\pm 1/8$  in ( $\pm 3$  mm). Width and length dimensions are  $+0.00$  to  $-0.25$  in ( $+0.00$  to  $-6$  mm). All weights are  $\pm 5\%$ .

### THREAT PERFORMANCE MATRIX

400 SERIES	LEAD CORE						MILD STEEL CORE			ARMOR PIERCING CORE		
	5.56 x 45 mm - M83 Max Velocity 2980 ft/s (910 m/s)	7.62 x 39 mm - M67 Max Velocity 2380 ft/s (728 m/s)	7.62 x 51 mm - M80 ** Max Velocity 2800 ft/s (853 m/s)	7.62 x 63 mm - JSP Max Velocity 2780 ft/s (847 m/s)	5.56 x 45 mm - M855 (SS109) Max Velocity 3150 ft/s (960 m/s)	7.62 x 39 mm - M43 Max Velocity 2500 ft/s (762 m/s)	7.62 x 54R - LPS Max Velocity 2850 ft/s (869 m/s)	7.62 x 39 mm - API Max Velocity 2390 ft/s (728 m/s)	7.62 x 54R P-32 - API Max Velocity 2850 ft/s (869 m/s)	7.62 x 51 mm - M61 Max Velocity 2830 ft/s (863 m/s)	7.62 x 63 mm - AP M2 ** Max Velocity 2900 ft/s (884 m/s)	
4400-SH-SC-L	6	6	3	1	6	3	1	3	1	1	1	
4400-SH-SC-S	3	3	1	1	3	3	1	1	1	1	1	
4400-FC-SC-L	6	6	3	1	6	3	1	3	1	1	1	
4400-FC-SC-S	3	3	1	1	3	3	1	1	1	1	1	

\* NIJ Level III Certification Threat

\*\* NIJ Level IV Certification Threat

### Hesco Testing Protocol

NIJ Certification of hard armor requires submission of 10" x 12" test plates which must demonstrate the ability to defeat specific rounds tested to a valid NIJ shot pattern, after exposure to a stringent conditioning protocol to simulate aging and wear. Level III requires six M80 rounds per plate. Level IV requires one AP M2 per plate.

NIJ's process provides for the inclusion of other size torso plates of identical construction to be included under the Certification without further NIJ testing.

Hesco holds itself to a higher standard by publishing the minimum number of shots that each size plate can be expected to defeat under similar NIJ testing methods, as well as listing many additional threats not addressed under the NIJ Certification process. The minimum number of shots are shown in the Threat Performance Matrix.

### General Information

Ceramic/composite design. Water repellant polyurethane coated CORDURA® fabric finish. Made in the U.S.A.

### NIJ Standard-0101.06

Tested and verified to meet or exceed ballistic resistance as specified under NIJ Standard- 0101.06 plus Special Rifle Threats validated.

### Export Control Advisory

Model BI 4400 (USML Category X(d)(1)) is subject to the International Traffic in Arms Regulations (ITAR). It may not be sold or otherwise provided to any non-U.S. Person and/or exported or re-exported without a valid U.S. Department of State DDTC export license, or applicable ITAR license Exemption.

### US and Americas Inquiries

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### Quality Standards

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# TECHNICAL SPECIFICATIONS 400 SERIES BALLISTIC INSERTS

## BI 4400 LEVEL IV STAND ALONE - MULTI CURVE



THICKNESS: 0.93 in (24 mm)

### SAPI CUT - MULTI CURVE - TORSO PLATES

PART NUMBER	WIDTH x LENGTH	WEIGHT
4400-SA-MC-L	10.25 x 13.25 in (260 x 337 mm)	9.3 lb (4.2 kg)
4400-SA-MC-M	9.50 x 12.50 in (241 x 318 mm)	8.1 lb (3.7 kg)



Recommended side plate pairing: BI 4101

### Manufacturing Tolerances:

Thickness dimensions are  $\pm 1/8$  in ( $\pm 3$  mm). Width and length dimensions are  $+0.00$  to  $-0.25$  in ( $+0.00$  to  $-6$  mm). All weights are  $\pm 5\%$ .

### THREAT PERFORMANCE MATRIX

400 SERIES	LEAD CORE						MILD STEEL CORE			ARMOR PIERCING CORE		
	5.56 x 45 mm - M93 Max Velocity 2950 ft/s (900 m/s)	7.62 x 39 mm - M67 Max Velocity 2390 ft/s (728 m/s)	7.62 x 51 mm - M80 * Max Velocity 2800 ft/s (853 m/s)	7.62 x 63 mm - JSR Max Velocity 2780 ft/s (847 m/s)	5.56 x 45 mm - M855/SS109 Max Velocity 3150 ft/s (960 m/s)	7.62 x 39 mm - M43 Max Velocity 2390 ft/s (728 m/s)	7.62 x 54R - LP5 Max Velocity 2850 ft/s (869 m/s)	7.62 x 39 mm - API Max Velocity 2590 ft/s (789 m/s)	7.62 x 51 mm - API Max Velocity 2850 ft/s (869 m/s)	7.62 x 51 mm - M61 Max Velocity 2830 ft/s (863 m/s)	7.62 x 63 mm - AP M2 ** Max Velocity 2900 ft/s (884 m/s)	
4400-SA-MC-L	6	6	3	1	6	3	1	3	1	1	1	
4400-SA-MC-M	6	6	3	1	6	3	1	3	1	1	1	

\* NIJ Level III Certification Threat

\*\* NIJ Level IV Certification Threat

### Hesco Testing Protocol

NIJ Certification of hard armor requires submission of 10" x 12" test plates which must demonstrate the ability to defeat specific rounds tested to a valid NIJ shot pattern, after exposure to a stringent conditioning protocol to simulate aging and wear. Level III requires six M80 rounds per plate. Level IV requires one AP M2 per plate.

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Hesco holds itself to a higher standard by publishing the minimum number of shots that each size plate can be expected to defeat under similar NIJ testing methods, as well as listing many additional threats not addressed under the NIJ Certification process. The minimum number of shots are shown in the Threat Performance Matrix.

### General Information

Ceramic/composite design. Water repellant polyurethane coated CORDURA® fabric finish. Made in the U.S.A.

### NIJ Standard-0101.06

Tested and verified to meet or exceed ballistic resistance as specified under NIJ Standard- 0101.06 plus Special Rifle Threats validated.

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