TECHNICAL SPECIFICATION SM02-II

TEST STANDARD: NIJ Standard: 0101.06
THREAT TYPE: Ballistic Level II
MODEL: BA-2000S-SM02

DESIGN

CONFIGURATION Neutral

ARMOR MATERIAL

Honeywell® Spectra Shield®, Honeywell® Gold Shield®, 5129, Honeywell® Gold Shield®, 2117, Tex Tech Core Matrix Technology™

ARMOR PANEL COVERING Dual covered, 2 Ply, 70 Denier Textured Nylon and TPU Lamination System

PERFORMANCE

AREAL DENSITY 0.79 lbs/ft² (3.86 kg/m²)
THINNESS 0.190 in (4.83 mm)
NEW V50 – 9MM FMJ RN 124 GR. 1770 ft/s (539 m/s)
CONDITIONED V50 – 9MM FMJ RN 124 GR. 1628 ft/s (496 m/s)
NEW V50 – .357 MAG JSP 158 GR. 1676 ft/s (511 m/s)
CONDITIONED V50 – .357 MAG JSP 158 GR. 1632 ft/s (497 m/s)
BACKFACE AVERAGE – 9MM 28.51 mm
BACKFACE AVERAGE – .357 MAG 33.02 mm

ADDITIONAL SPECIAL THREATS

• Winchester 9mm 127 gr. +P+ SXT – Tested Velocity 1250 ± 30 ft/s (381 ± 9 m/s) – No Perforations
• Federal 9mm 124 gr. +P HST – Tested Velocity 1250 ± 30 ft/s (381 ± 9 m/s) – No Perforations
• Speer .357 Sig 125 gr. GDHP – Tested Velocity 1375 ± 30 ft/s (419 ± 9 m/s) – No Perforations
• Winchester .40 S&W 165 gr. SXT – Tested Velocity 1140 ± 30 ft/s (347 ± 9 m/s) – No Perforations
• FNH USA 5.7x28 mm 40 gr. Blue Tip-SS197SR – Tested Velocity 1750 ± 50 ft/s (533 ± 15 m/s) – No Perforations
• Fragmentation Testing – 2 Gr. RCC – Tested Velocity 2396 ft/s (730 m/s)
• Fragmentation Testing – 4 Gr. RCC – Tested Velocity 2090 ft/s (637 m/s)
• Fragmentation Testing – 16 Gr. RCC – Tested Velocity 1826 ft/s (557 m/s)
• Fragmentation Testing – 64 Gr. RCC – Tested Velocity 1527 ft/s (465 m/s)

Special threats tested at an independent certified NIJ laboratory in accordance with Modified / Abbreviated NIJ 0101.06 Standard IAW Sec. 7.8.1 unless otherwise specified.

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# TECHNICAL SPECIFICATION SM02-III A

**TEST STANDARD:** NIJ Standard: 0101.06  
**THREAT TYPE:** Ballistic Level IIIA  
**MODEL:** BA-3A005-SM02

## DESIGN

<table>
<thead>
<tr>
<th>CONFIGURATION</th>
<th>Neutral</th>
</tr>
</thead>
</table>

### ARMOR MATERIAL

Honeywell® Spectra Shield® 5128, Honeywell® Gold Shield® 2115 and 2117, Tex Tech Core Matrix Technology™

### ARMOR PANEL COVERING

Dual covered, 2 Ply, 70 Denier Textured Nylon Ripstop and TPU Lamination System

## PERFORMANCE

<table>
<thead>
<tr>
<th>AREAL DENSITY</th>
<th>1.04 lbs/ft² (5.08 kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>THINNESS</td>
<td>0.250 in (6.35 mm)</td>
</tr>
</tbody>
</table>

**NEW V50 – .357 SIG FMJ FN 125 GR.**  
1868 ft/s (569 m/s)

**CONDITIONED V50 – .357 SIG FMJ FN 125 GR.**  
1758 ft/s (536 m/s)

**NEW V50 – .44 MAG JSP 240 GR.**  
1720 ft/s (524 m/s)

**CONDITIONED V50 – .44 MAG JSP 240 GR.**  
1564 ft/s (477 m/s)

**BACKFACE AVERAGE – .357 SIG**  
27.48 mm

**BACKFACE AVERAGE – .44 MAG**  
34.86 mm

## ADDITIONAL SPECIAL THREATS

- Meets/Exceeds Requirements of DEA Body Armor Test Protocol  
- Meets/Exceeds Requirements of FBI Body Armor Test Protocol  
- Winchester 9mm 127 gr. +P+ SXT – Tested Velocity 1250 ± 30 ft/s (381 ± 9 m/s)  
  - No Perforations  
- Federal 9mm 100 gr. Frangible – Tested Velocity 1100 ± 30 ft/s (335 ± 9 m/s)  
  - No Perforations  
- Speer .357 Sig 125 gr. GDHP – Tested Velocity 1375 ± 30 ft/s (419 ± 9 m/s)  
  - No Perforations  
- Winchester .40 S&W 165 gr. SXT – Tested Velocity 1140 ± 30 ft/s (347 ± 9 m/s)  
  - No Perforations  
- Romanian 7.62x25 85 gr. Tokarev – Tested Velocity 1530 ± 30 ft/s (466 ± 9 m/s)  
  - No Perforations  
- Fragmentation Testing – 2 Gr. RCC – Tested Velocity 2973 ft/s (906 m/s)  
- Fragmentation Testing – 4 Gr. RCC – Tested Velocity 2617 ft/s (798 m/s)  
- Fragmentation Testing – 16 Gr. RCC – Tested Velocity 2087 ft/s (636 m/s)  
- Fragmentation Testing – 64 Gr. RCC – Tested Velocity 1731 ft/s (528 m/s)

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## TECHNICAL SPECIFICATION SM02F-II

<table>
<thead>
<tr>
<th>Test Standard:</th>
<th>NIJ Standard: 0101.06</th>
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</thead>
<tbody>
<tr>
<td>Threat Type:</td>
<td>Ballistic Level II</td>
</tr>
<tr>
<td>Model:</td>
<td>BA-2000S-SM02F</td>
</tr>
</tbody>
</table>

### DESIGN

- **Configuration:** Structured

### Armor Material

- Honeywell® Spectra Shield®
- Honeywell® Gold Shield®
- Tex Tech Core Matrix Technology™

### Armor Panel Covering

- Dual covered, 2 Ply, 70 Denier Textured Nylon and TPU Lamination System

### Performance

<table>
<thead>
<tr>
<th><strong>Areal Density</strong></th>
<th>0.79 lbs/ft² (3.86 kg/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thinness</strong></td>
<td>0.190 in (4.83 mm)</td>
</tr>
<tr>
<td><strong>NEW V50 – 9MM FMJ RN 124 GR.</strong></td>
<td>1717 ft/s (523 m/s)</td>
</tr>
<tr>
<td><strong>CONDITIONED V50 – 9MM FMJ RN 124 GR.</strong></td>
<td>1693 ft/s (516 m/s)</td>
</tr>
<tr>
<td><strong>NEW V50 – .357 MAG JSP 158 GR.</strong></td>
<td>1659 ft/s (506 m/s)</td>
</tr>
<tr>
<td><strong>CONDITIONED V50 – .357 MAG JSP 158 GR.</strong></td>
<td>1532 ft/s (467 m/s)</td>
</tr>
<tr>
<td><strong>Backface Average – 9MM</strong></td>
<td>27.48 mm</td>
</tr>
<tr>
<td><strong>Backface Average – .357 MAG</strong></td>
<td>32.18 mm</td>
</tr>
</tbody>
</table>

### Additional Special Threats

- Winchester 9mm 127 gr. +P+ SXT – Tested Velocity 1250 ± 30 ft/s (381 ± 9 m/s) – No Perforations
- Federal 9mm 124 gr. +P HST – Tested Velocity 1250 ± 30 ft/s (381 ± 9 m/s) – No Perforations
- Speer .357 Sig 125 gr. GDHP – Tested Velocity 1375 ± 30 ft/s (419 ± 9 m/s) – No Perforations
- Winchester .40 S&W 165 gr. SXT – Tested Velocity 1140 ± 30 ft/s (347 ± 9 m/s) – No Perforations

Special threats tested at an independent certified NIJ laboratory in accordance with Modified / Abbreviated NIJ 0101.06 Standard IAW Sec. 7.8.1 unless otherwise specified.
TECHNICAL SPECIFICATION SM02F-IIIa

TEST STANDARD:  
NIJ Standard: 0101.06

THREAT TYPE:  
Ballistic Level IIIA

MODEL:  
BA-3A00S-SM02F

**DESIGN**

**CONFIGURATION**  
Structured

**ARMOR MATERIAL**  
Honeywell® Spectra Shield® 5128, Honeywell® Gold Shield® 2115 and 2117, Tex Tech Core Matrix Technology™

**ARMOR PANEL COVERING**  
Dual covered, 2 Ply, 70 Denier Textured Nylon and TPU Lamination System

**PERFORMANCE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Areal Density</td>
<td>1.04 lbs/ft² (5.08 kg/m²)</td>
</tr>
<tr>
<td>Thinness</td>
<td>0.250 in (6.35 mm)</td>
</tr>
<tr>
<td>New V50 – .357 SIG FMJ FN 125 GR.</td>
<td>1863 ft/s (568 m/s)</td>
</tr>
<tr>
<td>Conditioned V50 – .357 SIG FMJ FN 125 GR.</td>
<td>1824 ft/s (556 m/s)</td>
</tr>
<tr>
<td>New V50 – .44 MAG JSP 240 GR.</td>
<td>1638 ft/s (499 m/s)</td>
</tr>
<tr>
<td>Conditioned V50 – .44 MAG JSP 240 GR.</td>
<td>1680 ft/s (512 m/s)</td>
</tr>
<tr>
<td>Backface Average – .357 SIG</td>
<td>26.43 mm</td>
</tr>
<tr>
<td>Backface Average – .44 MAG</td>
<td>36.19 mm</td>
</tr>
</tbody>
</table>

**ADDITIONAL SPECIAL THREATS**

- Winchester 9mm 127 gr. +P+ SXT – Tested Velocity 1250 ± 30 ft/s (381 ± 9 m/s) – No Perforations
- FN 5.7x28 27 gr. JHP – Tested Velocity 2042 ± 30 ft/s (622 ± 9 m/s) – No Perforations
- FN 5.7x28 40 gr. V-Max – Tested Velocity 1748 ± 30 ft/s (533 ± 9 m/s) – No Perforations
- Romanian 7.62x25 85 gr. Tokarev – Tested Velocity 1530 ± 30 ft/s (466 ± 9 m/s) – No Perforations

Special threats tested at an independent certified NIJ laboratory in accordance with Modified / Abbreviated NIJ 0101.06 Standard IAW Sec. 7.8.1 unless otherwise specified.

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