Ballistica™ steel doors, windows and storefront systems are available in a wide variety of options to suit both your aesthetic and security requirements. Stiles provides a broader spectrum of protection options than anyone else in the industry.

- Full range of UL752 options
- Bullet Resistant Commercial Entrance Systems
- Flush, Glass Lite and Solid Panel Configurations
- Steel, Stainless, Bronze or Wood
- Custom designed to suit your requirements
- Sustainable materials and construction processes

Multiple features including:

- Sound Control
- Fire Rated

Environmental Data

Stiles uses no lead, asbestos or formaldehyde in the construction of our bullet resistant doors or windows.

All resins and bonding agents utilized in fabrication are low VOC / environmentally friendly. Stock sheet materials are ordered to make provision for minimal waste.

The recyclability and superior longevity of Ballistica™ doors and windows make them truly sustainable products.
<table>
<thead>
<tr>
<th>UL Level</th>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>UL 752 Test Criteria (per UL 752 rev. 10-5-05)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Baretta 9mm Parabellum</td>
<td>9mm, 124 grain FMJ</td>
<td>3</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 1175 to 1292.5 ft/sec.&lt;br&gt;Shot Spacing: 3 shots within a 4.5&quot; triangle&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: (-20°F) 55, 72, 95, 120°F</td>
</tr>
<tr>
<td>2</td>
<td>Smith &amp; Wesson .357 Magnum</td>
<td>.357 Magnum, 158 grain JSP</td>
<td>3</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 1250 to 1375 ft/sec.&lt;br&gt;Shot Spacing: 3 shots within a 4.5&quot; triangle&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: (-20°F) 55, 72, 95, 120°F</td>
</tr>
<tr>
<td>3</td>
<td>Colt .44 Magnum</td>
<td>.44 Magnum, 240 grain SWC</td>
<td>3</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 1350 to 1485 ft/sec.&lt;br&gt;Shot Spacing: 3 shots within a 4.5&quot; triangle&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: (-20°F) 55, 72, 95, 120°F</td>
</tr>
<tr>
<td>4</td>
<td>M-1 Garand 30-06, .30 Caliber</td>
<td>.30 cal, 30-06, 160 grain JSP</td>
<td>1</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 2540 to 2794 ft/sec.&lt;br&gt;Shot Spacing: 1 shot, centered&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: (-20°F) 55, 72, 95, 120°F</td>
</tr>
<tr>
<td>5</td>
<td>Heckler &amp; Koch Model G3 7.62 X 51 NATO</td>
<td>.30 cal, 7.62 NATO, 150 grain FMJ</td>
<td>1</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 2750 to 3025 ft/sec&lt;br&gt;Shot Spacing: (Parts 1-3) 1 shot, centered&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: (-20°F) 55, 72, 95, 120°F</td>
</tr>
<tr>
<td>6</td>
<td>Baretta 9mm Parabellum</td>
<td>9mm, 124 grain FMJ</td>
<td>5</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 1400 to 1540 ft/sec.&lt;br&gt;Shot Spacing: 5 shots within a 4.5&quot; square&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: 72°F</td>
</tr>
<tr>
<td>7</td>
<td>Colt M16 (AR15 Semi), 5.56 X 45 NATO</td>
<td>.223 cal, 5.56 NATO, 55 grain FMJ</td>
<td>5</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 3080 to 3380 ft/sec.&lt;br&gt;Shot Spacing: 5 shots within a 4.5&quot; square&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: 72°F</td>
</tr>
<tr>
<td>8</td>
<td>Heckler &amp; Koch Model G3 7.62 X 51 NATO</td>
<td>.30 cal, 7.62 NATO, 150 grain FMJ</td>
<td>5</td>
<td>Target 12&quot; X 12&quot;&lt;br&gt;Range: 15 Feet&lt;br&gt;Velocity: 2750 to 3025 ft/sec&lt;br&gt;Shot Spacing: 5 shots within a 4.5&quot; square&lt;br&gt;Witness Plate: 125 cardboard @ 18&quot; from target&lt;br&gt;Test Temp: 72°F</td>
</tr>
</tbody>
</table>

**SHOTGUN SUPPLEMENT**

| SG 1-8 | Benelli 12GA Shotgun | 12GA, 2.75" 437 grain Slug | | Target 12" X 12"<br>Range: 15 Feet<br>Velocity: (Levels 1-8) 1585 to 1743.5 ft/sec<br>Shot Spacing: (Levels 1-2) 5 shots within a 4.5" triangle<br>Witness Plate: (Levels 6-8, Part 1) 1 shot, centered<br>Test Temp: (-20°F) 55, 72, 95, 120°F (varies per level / part) |
| SG 1-8 | Benelli 12GA Shotgun | 12GA, 2.75" 650 grain #00 Buck | | Target 12" X 12"<br>Range: 15 Feet<br>Velocity: (1-8) 1200 to 1320 ft/sec<br>Shot Spacing: (Levels 1-2) 3 total shots within a 4.5" triangle<br>Witness Plate: (Levels 6-8, Part 2) 5 shots within a 4.5" square<br>Test Temp: (-20°F) 55, 72, 95, 120°F (varies per level / part) |
Ballistica™ bullet and ricochet resistant steel doors, frames, windows, and storefront systems are built to order to provide the highest protection while retaining the aesthetic appearance of non-bullet resistant products.

In addition to options shown below, features such as sound control and fire-rating are available on many Ballistica™ door and window models.

### Materials Options

![Steel](image1)

![Stainless Steel](image2)

![Bronze](image3)

![Wood](image4)

More Information:

**Steel:** See Finishes, p. G-7.0

**Stainless Steel:** See Stainless Section

**Bronze:** See Bronze Section

**Wood:** See Wood Species & Finishes G-8.0 to 8.3

### Glass Lite Options

Doors are available in a wide variety of elevation and lite kit options ranging from flush to full lite:

See p. BR-4.0 Sampling of Available Elevations

### Frame Profile & Configuration Options

Choose from multiple frame profiles and configurations designed to accommodate virtually any wall construction and elevation requirement:

See Frames Section
Ballistica™ bullet and ricochet resistant steel door assemblies are built to order and independently tested to meet UL 752 protection requirements. Glass lite door models are available factory glazed with level-appropriate UL 752 certified glazing material.

<table>
<thead>
<tr>
<th>UL 752 Level</th>
<th>Ammunition</th>
<th>Ballistica™ Bullet Resistant Door Models</th>
<th>Elevation Options</th>
<th>Glass</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Steel</td>
<td>Stainless Steel</td>
<td>Bronze</td>
<td>Wood</td>
</tr>
<tr>
<td>1</td>
<td>9mm, 124 grain FMJ</td>
<td>BSD-1</td>
<td>BSSD-1</td>
<td>BBD-1</td>
<td>BWD-1</td>
</tr>
<tr>
<td>2</td>
<td>.357 Magnum, 158 grain JSP</td>
<td>BSD-2</td>
<td>BSSD-2</td>
<td>BBD-2</td>
<td>BWD-2</td>
</tr>
<tr>
<td>3</td>
<td>.44 Magnum, 240 grain SWC</td>
<td>BSD-3</td>
<td>BSSD-3</td>
<td>BBD-3</td>
<td>BWD-3</td>
</tr>
<tr>
<td>4</td>
<td>.30 cal, 30-06, 180 grain JSP</td>
<td>BSD-4</td>
<td>BSSD-4</td>
<td>BBD-4</td>
<td>BWD-4</td>
</tr>
<tr>
<td>5</td>
<td>.30 cal, 7.62 NATO, 150 grain FMJ</td>
<td>BSD-5</td>
<td>BSSD-5</td>
<td>BBD-5</td>
<td>BWD-5</td>
</tr>
<tr>
<td>6</td>
<td>9mm, 124 grain FMJ</td>
<td>BSD-6</td>
<td>BSSD-6</td>
<td>BBD-6</td>
<td>BWD-6</td>
</tr>
<tr>
<td>7</td>
<td>.223 cal, 5.56 NATO, 55 grain FMJ</td>
<td>BSD-7</td>
<td>BSSD-7</td>
<td>BBD-7</td>
<td>BWD-7</td>
</tr>
<tr>
<td>8</td>
<td>.30 cal, 7.62 NATO, 150 grain FMJ</td>
<td>BSD-8</td>
<td>BSSD-8</td>
<td>BBD-8</td>
<td>BWD-8</td>
</tr>
<tr>
<td>SGS</td>
<td>Shotgun Supplement</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Shotgun Supplement Available All Levels - Contact Factory

F, GL, SP, C Varies per Level
Level 1
Model BSD-1 / Bullet & Ricochet Resistant Door Assembly

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Ballistica™ built-to-order bullet resistant door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood</td>
</tr>
<tr>
<td>Door Edges</td>
<td>1-3/4&quot; thick, beveled 1/8&quot; in 2&quot;</td>
</tr>
<tr>
<td>Core</td>
<td>Proprietary; lead, asbestos, fiberglass &amp; formaldehyde free</td>
</tr>
<tr>
<td>Door Weight</td>
<td>9.4 lbs. / sf</td>
</tr>
<tr>
<td>Weight</td>
<td>Weight must be considered in hinge selection and wall design.</td>
</tr>
<tr>
<td>Glazing</td>
<td>1. 3/4&quot; Glass Clad Polycarbonate required  See Glass</td>
</tr>
<tr>
<td></td>
<td>2. Glass &amp; glazing not included, standard</td>
</tr>
<tr>
<td></td>
<td>3. Factory installed glazing option insures optimal performance</td>
</tr>
<tr>
<td>Hardware</td>
<td>Hardware including hinges, bullet-resistant threshold &amp; latch-set can be provided and factory installed upon request.</td>
</tr>
<tr>
<td>Seals</td>
<td>1. Seal-Tek™ Perimeter Weather Seals, optional</td>
</tr>
<tr>
<td></td>
<td>2. Air-Tek™ Door Edge, optional</td>
</tr>
<tr>
<td>Frames</td>
<td>See Frame Profiles and Frame Elevations</td>
</tr>
<tr>
<td>Finishes</td>
<td>Gray, EPA Approved, Alkyd, zinc compound primer, standard</td>
</tr>
<tr>
<td></td>
<td>Finish paint also available See Finishes</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>Per UL10C / UBC7-2 Positive Pressure</td>
</tr>
<tr>
<td></td>
<td>Up to 3 Hour Rating See Fire Rated</td>
</tr>
<tr>
<td>Sound</td>
<td>See Sound Control</td>
</tr>
</tbody>
</table>

UL752 Level 1 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baretta 9mm Parabellum</td>
<td>9mm, 124 gr. FMJ</td>
<td>3</td>
<td>1,175 to 1,292</td>
<td>3 shots, 4.5&quot; triangle</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

INTERNAL HINGE & LOCK REINFORCEMENTS TO ACCOMMODATE APPLICABLE HARDWARE

REMOVABLE GLASS STOPS

( SAFE SIDE )

PROPRIETARY BALLISTIC CORE

3/4" GLASS CLAD POLYCARBONATE (GLASS LITE MODELS)

FINISH FLOOR OR TOP OF THRESHOLD

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Level 2
Model BSD-2 / Bullet & Ricochet Resistant Door Assembly

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Ballistica™ built-to-order bullet resistant door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood</td>
</tr>
<tr>
<td>Door Edges</td>
<td>1-3/4&quot; thick, beveled 1/8&quot; in 2&quot;</td>
</tr>
<tr>
<td>Core</td>
<td>Proprietary; lead, asbestos, fiberglass &amp; formaldehyde free</td>
</tr>
<tr>
<td>Door Weight</td>
<td>9.4 lbs. / sf</td>
</tr>
<tr>
<td>Weight</td>
<td>Weight must be considered in hinge selection and wall design.</td>
</tr>
<tr>
<td>Glazing</td>
<td>1. 15/16&quot; Glass Clad Polycarbonate required See Glass 2. Glass &amp; glazing not included, standard 3. Factory installed glazing option insures optimal performance</td>
</tr>
<tr>
<td>Hardware</td>
<td>Hardware including hinges, bullet-resistant threshold &amp; latch-set can be provided and factory installed upon request.</td>
</tr>
<tr>
<td>Frames</td>
<td>See Frame Profiles and Frame Elevations</td>
</tr>
<tr>
<td>Finishes</td>
<td>Gray, EPA Approved, Alkyd, zinc compound primer, standard Finish paint also available See Finishes</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>Per UL10C / UBC7-2 Positive Pressure Up to 3 Hour Rating See Fire Rated</td>
</tr>
<tr>
<td>Sound</td>
<td>See Sound Control</td>
</tr>
</tbody>
</table>

UL752 Level 2 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>S&amp;W .357 Magnum</td>
<td>.357 Mag, 158 gr. JSP</td>
<td>3</td>
<td>1,250 to 1,375</td>
<td>3 shots, 4.5&quot; triangle</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

INTERNAL HINGE & LOCK REINFORCEMENTS TO ACCOMMODATE APPLICABLE HARDWARE

REMOVABLE GLASS STOPS

PROPRIETARY BALLISTIC CORE

15/16" GLASS CLAD POLYCARBONATE (GLASS LITE MODELS)
Level 3
Model BSD-3 / Bullet & Ricochet Resistant Door Assembly

Assembly | Ballistica™ built-to-order bullet resistant door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available.
--- | ---
Material | Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood
Door Edges | 1-3/4” thick, beveled 1/8” in 2”
Core | Proprietary; lead, asbestos, fiberglass & formaldehyde free
Door Weight | 12.3 lbs. / sf
Weight | Weight must be considered in hinge selection and wall design.
Glazing | 1. 1-1/8” Glass Clad Polycarbonate required | See Glass
2. Glass & glazing not included, standard
3. Factory installed glazing option insures optimal performance
Hardware | Hardware including hinges, bullet-resistant threshold & latch-set can be provided and factory installed upon request.
Seals | 1. Seal-Tek™ Perimeter Weather Seals, optional
2. Air-Tek™ Door Edge, optional
Frames | See Frame Profiles and Frame Elevations
Finishes | Gray, EPA Approved, Alkyd, zinc compound primer, standard
Fire Rating | Per UL10C / UBC7-2 Positive Pressure
Sound | See Sound Control

UL752 Level 3 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colt .44 Magnum</td>
<td>.44 Mag, 240 gr. SWC</td>
<td>3</td>
<td>1,350 to 1,485</td>
<td>3 shots, 4.5&quot; triangle</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

INTERNAL HINGE & LOCK REINFORCEMENTS TO ACCOMMODATE APPLICABLE HARDWARE

REMOVABLE GLASS STOPS

PROPRIETARY BALLISTIC CORE

1-1/8” GLASS CLAD POLYCARBONATE (GLASS LITE MODELS)

FINISH FLOOR OR TOP OF THRESHOLD

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Level 4
Model BSD-4 / Bullet & Ricochet Resistant Door Assembly

| Assembly | Ballistica™ built-to-order bullet resistant steel door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available. |
| Material | Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood |
| Door Edges | 1-3/4" thick, beveled 1/8" in 2" |
| Core | Proprietary; lead, asbestos, fiberglass & formaldehyde free |
| Door Weight | 19.9 lbs. / sf |
| Glazing | 1. 1-1/4" Glass Clad Polycarbonate required See Glass 2. Glass & glazing not included, standard 3. Factory installed glazing option insures optimal performance |
| Hardware | Hardware including hinges, bullet-resistant threshold & latch-set can be provided and factory installed upon request. |
| Frames | See Frame Profiles and Frame Elevations |
| Finishes | Gray, EPA Approved, Alkyd, zinc compound primer, standard Finish paint also available See Finishes |
| Fire Rating | Per UL10C / UBC7-2 Positive Pressure Up to 3 Hour Rating See Fire Rated |
| Sound | See Sound Control |

UL752 Level 4 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-1 Garand, 30-06, .30 cal</td>
<td>.30 cal, 30-06, 180 gr. JSP</td>
<td>1</td>
<td>2,540 to 3,025</td>
<td>1 shot, centered</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

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UL752 Level 5
Model BSD-5 / Bullet & Ricochet Resistant Door Assembly

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Ballistica™ built-to-order bullet resistant door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood</td>
</tr>
<tr>
<td>Door Edges</td>
<td>1-3/4&quot; thick, beveled 1/8&quot; in 2&quot;</td>
</tr>
<tr>
<td>Core</td>
<td>Proprietary; lead, asbestos, fiberglass &amp; formaldehyde free</td>
</tr>
<tr>
<td>Door Weight</td>
<td>19.9 lbs. / sqf</td>
</tr>
<tr>
<td>Glazing</td>
<td>1. 1-5/16&quot; Glass Clad Polycarbonate required See Glass</td>
</tr>
<tr>
<td></td>
<td>2. Glass &amp; glazing not included, standard</td>
</tr>
<tr>
<td></td>
<td>3. Factory installed glazing option insures optimal performance</td>
</tr>
<tr>
<td>Hardware</td>
<td>Hardware including hinges, bullet-resistant threshold &amp; latch-set can be provided and factory installed upon request.</td>
</tr>
<tr>
<td>Seals</td>
<td>1. Seal-Tek™ Perimeter Weather Seals, optional</td>
</tr>
<tr>
<td></td>
<td>2. Air-Tek™ Door Edge, optional</td>
</tr>
<tr>
<td>Frames</td>
<td>See Frame Profiles and Frame Elevations</td>
</tr>
<tr>
<td>Finishes</td>
<td>Gray, EPA Approved, Alkyd, zinc compound primer, standard Finish paint also available See Finishes</td>
</tr>
<tr>
<td>Fire Rating</td>
<td>Per UL10C / UBC7-2 Positive Pressure</td>
</tr>
<tr>
<td></td>
<td>Up to 3 Hour Rating See Fire Rated</td>
</tr>
<tr>
<td>Sound</td>
<td>See Sound Control</td>
</tr>
</tbody>
</table>

UL752 Level 5 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>H&amp;K G3, .30 cal</td>
<td>7.62 NATO, 150 gr. FMJ</td>
<td>1</td>
<td>2,750 to 3,025</td>
<td>1 shot, centered</td>
<td>.125 cardboard @ 18°</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

Ballistica™
Bullet Resistant Doors

Stiles Custom Metal Inc
1885 Kinser Road
Ceres CA USA 95307
T 209 538 3667
F 209 538 2776
E sales@stilesdoor.com
www.stilesdoor.com
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BR-2.5
UL752 Level 6 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baretta 9mm Parabellum</td>
<td>9mm, 124 grain FMJ</td>
<td>5</td>
<td>1,400 to 1,2540</td>
<td>5 shots, 4.5&quot; square</td>
<td>.125 cardboard @ 18&quot;</td>
<td>72F</td>
</tr>
</tbody>
</table>

Proprietary Ballistic Core

1-1/4" Glass Clad Polycarbonate (GLASS LITE MODELS)

INTERNAL HINGE & LOCK REINFORCEMENTS TO ACCOMMODATE APPLICABLE HARDWARE

(SAFE SIDE)

REMOVABLE GLASS STOPS
Level 7
Model BSD-7 / Bullet & Ricochet Resistant Steel Door Assembly

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Ballistica™ built-to-order bullet resistant door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood</td>
</tr>
<tr>
<td>Door Edges</td>
<td>1-3/4&quot; thick, beveled 1/8&quot; in 2&quot;</td>
</tr>
<tr>
<td>Core</td>
<td>Proprietary; lead, asbestos, fiberglass &amp; formaldehyde free</td>
</tr>
<tr>
<td>Weight</td>
<td>15.4 lbs. / sf</td>
</tr>
<tr>
<td>Weight</td>
<td>Weight must be considered in hinge selection and wall design.</td>
</tr>
</tbody>
</table>
| Glazing          | 1. 1-7/8" Glass Clad Polycarbonate required  See Glass  
2. Glass & glazing not included, standard  
3. Factory installed glazing option insures optimal performance                                                                                                  |
| Hardware         | Hardware including hinges, bullet-resistant threshold & latch-set can be provided and factory installed upon request.                                                                                               |
| Seals            | 1. Seal-Tek™ Perimeter Weather Seals, optional  
2. Air-Tek™ Door Edge, optional                                                                                                           |
| Frames           | See Frame Profiles and Frame Elevations                                                                                                                                                       |
| Finishes         | Gray, EPA Approved, Alkyd, zinc compound primer, standard Finish paint also available  See Finishes                                                                                           |
| Fire Rating      | Per UL10C / UBC7-2 Positive Pressure  
Up to 3 Hour Rating  See Fire Rated                                                                                                           |
| Sound            | See Sound Control                                                                                                                                                                              |

UL752 Level 7 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Colt M16, 5.56 X 45 NATO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammunition</td>
<td>.223 cal, 5.56 NATO, 55 gr. FMJ</td>
</tr>
<tr>
<td>Shots</td>
<td>5</td>
</tr>
<tr>
<td>Velocity (ft/sec)</td>
<td>3.080 to 3,388</td>
</tr>
<tr>
<td>Shot Spacing</td>
<td>5 shots, 4.5&quot; square</td>
</tr>
<tr>
<td>Witness Plate</td>
<td>.125 cardboard @ 18&quot;</td>
</tr>
<tr>
<td>Test Temperature</td>
<td>72F</td>
</tr>
</tbody>
</table>
Level 8
Model BSD-8 / Bullet & Ricochet Resistant Door Assembly

Assembly: Ballistica™ built-to-order bullet resistant door assemblies come complete with door, frame and lite kit (if applicable). For both interior or exterior locations. Oversized industrial assemblies available.

Material: Cold Rolled Steel, A60 Galvanized, Stainless Steel, Bronze, Wood

Door Edges: 1-3/4" thick, beveled 1/8" in 2"

Core: Proprietary; lead, asbestos, fiberglass & formaldehyde free

Door Weight: 19.9 lbs. / sf

Weight: Weight must be considered in hinge selection and wall design.

Glazing: 1. 2" Glass Clad Polycarbonate required  See Glass
2. Glass & glazing not included, standard
3. Factory installed glazing option insures optimal performance

Hardware: Hardware including hinges, bullet-resistant threshold & latch-set can be provided and factory installed upon request.

Seals: 1. Seal-Tek™ Perimeter Weather Seals, optional
2. Air-Tek™ Door Edge, optional

Frames: See Frame Profiles and Frame Elevations

Finishes: Gray, EPA Approved, Alkyd, zinc compound primer, standard finish paint also available  See Finishes

Fire Rating: Per UL10C / UBC7-2 Positive Pressure
Up to 3 Hour Rating  See Fire Rated

Sound: See Sound Control

UL752 Level 8 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements.

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>H&amp;K G3, 7.62 X 51 NATO</td>
<td>.30 cal, 7.62 NATO, 150 gr. FMJ</td>
<td>5</td>
<td>2,750 to 3,025</td>
<td>5 shots, 4.5&quot; square</td>
<td>.125 cardboard @ 18&quot;</td>
<td>72F</td>
</tr>
</tbody>
</table>

Stiles Custom Metal Inc
1885 Kinser Road
Ceres CA USA 95307
www.stilesdoor.com

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Ballistica™ Lite Kits for Metal Doors

Stiles also offers moulding configurations not shown below. Contact factory for more information.

NOTE: Removable glass stops are typically installed to the interior of the building.

**Level 1**
1-3/4" Metal or Wood Door
3/4" Glass Clad Polycarbonate
5/8" X 5/8" Removable Stops
*Concealed Fasteners Available

**Level 2**
1-3/4" Metal or Wood Door
15/16" Glass Clad Polycarbonate
7/16" X 5/8" Removable Stops
*Concealed Fasteners Available

**Level 3**
1-3/4" Metal or Wood Door
1-1/8" Glass Clad Polycarbonate
1-1/2" Removable Stops

**Level 4**
1-3/4" Metal or Wood Door
1-1/4" Glass Clad Polycarbonate
1-1/2" Removable Stops

**Level 5**
1-3/4" Metal or Wood Door
1-5/16" Glass Clad Polycarbonate
1-1/2" Removable Stops

**Level 6**
1-3/4" Metal or Wood Door
1-1/4" Glass Clad Polycarbonate
1-1/2" Removable Stops

**Level 7**
1-3/4" Metal or Wood Door
1-7/8" Glass Clad Polycarbonate
1-1/2" Removable Stops

**Level 8**
1-3/4" Metal or Wood Door
2" Glass Clad Polycarbonate
1-1/2" Removable Stops

Stiles Custom Metal Inc
1885 Kinser Road
Ceres CA USA 95307
T 209 538 3667
F 209 538 2776
E sales@stilesdoor.com

www.stilesdoor.com

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Stiles also offers molding configurations not shown below. Contact factory for more information.

NOTE: Removable glass stops are typically installed to the interior of the building.

Level 1
1-3/4" Door
3/4" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 2
1-3/4" Door
15/16" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 3
1-3/4" Door
1-1/8" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 4
1-3/4" Door
1-1/4" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 5
1-3/4" Door
1-5/16" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 6
1-3/4" Door
1-1/4" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 7
1-3/4" Door
1-7/8" Glass Clad Polycarbonate
1-1/2" Removable Stops

Level 8
1-3/4" Door
2" Glass Clad Polycarbonate
1-1/2" Removable Stops

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## Ballistica™ Window Models

<table>
<thead>
<tr>
<th>UL Level</th>
<th>Ammunition</th>
<th>Ballistica™ Bullet Resistant Window Models</th>
<th>Elevation Options</th>
<th>Glass Thickness Max. Lite Size</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9mm, 124 grain FMJ</td>
<td>BSW-1 BSSW-1 BBW-1</td>
<td>Fixed Window Transom Sidelite</td>
<td>3/4&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.1</td>
</tr>
<tr>
<td>2</td>
<td>.357 Magnum, 158 grain JSP</td>
<td>BSW-2 BSSW-2 BBW-2</td>
<td>Fixed Window Transom Sidelite</td>
<td>15/16&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.2</td>
</tr>
<tr>
<td>3</td>
<td>.44 Magnum, 240 grain SWC</td>
<td>BSW-3 BSSW-3 BBW-3</td>
<td>Fixed Window Transom Sidelite</td>
<td>1-1/8&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.3</td>
</tr>
<tr>
<td>4</td>
<td>.30 cal, 30-06, 180 grain JSP</td>
<td>BSW-4 BSSW-4 BBW-4</td>
<td>Fixed Window Transom Sidelite</td>
<td>1-1/4&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.4</td>
</tr>
<tr>
<td>5</td>
<td>.30 cal, 7.62 NATO, 150 grain FMJ</td>
<td>BSW-5 BSSW-5 BBW-5</td>
<td>Fixed Window Transom Sidelite</td>
<td>1-5/16&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.5</td>
</tr>
<tr>
<td>6</td>
<td>9mm, 124 grain FMJ</td>
<td>BSW-6 BSSW-6 BBW-6</td>
<td>Fixed Window Transom Sidelite</td>
<td>1-1/4&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.6</td>
</tr>
<tr>
<td>7</td>
<td>.223 cal, 5.56 NATO, 55 grain FMJ</td>
<td>BSW-7 BSSW-7 BBW-7</td>
<td>Fixed Window Transom Sidelite</td>
<td>1-7/8&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.7</td>
</tr>
<tr>
<td>8</td>
<td>.30 cal, 7.62 NATO, 150 grain FMJ</td>
<td>BSW-8 BSSW-8 BBW-8</td>
<td>Fixed Window Transom Sidelite</td>
<td>2&quot; GCP (60&quot; X 96&quot;)</td>
<td>BR-5.8</td>
</tr>
<tr>
<td>SGS</td>
<td>Shotgun Supplement Available All Levels - Contact Factory</td>
<td></td>
<td>Fixed Window Transom Sidelite</td>
<td>Varies</td>
<td>BR-5.0</td>
</tr>
</tbody>
</table>
## Level 1
### Model BSW-1 / Bullet & Ricochet Resistant Windows

<table>
<thead>
<tr>
<th>Description</th>
<th>Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.</th>
</tr>
</thead>
</table>
| Materials   | 1. Cold Rolled Steel  
2. A60 Galvanized  
3. Stainless Steel  
4. Bronze |
| Frames      | Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations |
| Glazing     | 1. 3/4" Glass Clad Polycarbonate required See Glass  
2. Glass and glazing not included (standard)  
3. Optional 5° Inclined glazing for glare reduction  
4. Optional Concealed glass stop fasteners |
| Finishes    | Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes |
| Fire Rating | Per UL10C / UBC7-2 Positive Pressure  
Up to 1-1/2 Hour Rating See Fire Rated |
| Sound       | See Sound Control |

### UL752 Level 1 Test Criteria

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baretta 9mm Parabellum</td>
<td>9mm, 124 gr. FMJ</td>
<td>3</td>
<td>1,175 to 1,292</td>
<td>3 shots, 4.5&quot; triangle</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

Built to order per customer’s requirements  
Multiple frame configurations and profile options available

PROFILES AVAILABLE TO ACCOMMODATE ANY TYPE WALL CONSTRUCTION  
SAFE SIDE  
MULLIONS AVAILABLE  
ANTI SPALL SURFACE  
3/4" GLASS CLAD POLYCARBONATE  
5° INCLINED GLAZING AVAILABLE FOR GLARE REDUCTION (CONTACT FACTORY)  
SAFE SIDE  
A | B  

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**Level 2**

**Model BSW-2 / Bullet & Ricochet Resistant Windows**

<table>
<thead>
<tr>
<th>Description</th>
<th>Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.</th>
</tr>
</thead>
</table>
| Materials   | 1. Cold Rolled Steel  
2. A60 Galvanized  
3. Stainless Steel  
4. Bronze |
| Frames      | Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations |
| Glazing     | 1. 15/16" Glass Clad Polycarbonate required  See Glass  
2. Glass and glazing not included (standard)  
3. Optional 5° Inclined glazing for glare reduction  
4. Optional Concealed glass stop fasteners |
| Finishes    | Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes |
| Fire Rating | Per UL10C / UBC7-2 Positive Pressure  
Up to 1-1/2 Hour Rating  See Fire Rated |
| Sound       | See Sound Control |

**UL752 Level 2 Test Criteria**

Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>S&amp;W .357 Magnum</td>
<td>.357 Mag, 158 gr. JSP</td>
<td>3</td>
<td>1,250 to 1,375</td>
<td>3 shots, 4.5&quot; triangle</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

Profiles available to accommodate any type wall construction

Anti spall surface

Removable glass stops (concealed or security fasteners available)  
Note: Glass stops to interior also available

Built to order per customer’s requirements

Multiple frame configurations and profile options available
Level 3
Model BSW-3 / Bullet & Ricochet Resistant Windows

Description
Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.

Materials
1. Cold Rolled Steel
2. A60 Galvanized
3. Stainless Steel
4. Bronze

Frames
Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations

Glazing
1. 1-1/8" Glass Clad Polycarbonate required
2. Glass and glazing not included (standard)
3. Optional 5° Inclined glazing for glare reduction
4. Optional Concealed glass stop fasteners

Finishes
Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes

Fire Rating
Per UL10C / UBC7-2 Positive Pressure
Up to 1-1/2 Hour Rating See Fire Rated

Sound
See Sound Control

UL752 Level 3 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colt .44 Magnum</td>
<td>.44 Mag, 240 gr. SWC</td>
<td>3</td>
<td>1,350 to 1,485</td>
<td>3 shots, 4.5&quot; triangle</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

Profiles available to accommodate any type wall construction

Profiles available to accommodate any type wall construction

5° Inclined glazing available for glare reduction (contact factory)

1-1/8" Glass Clad Polycarbonate

Removable glass stops (concealed or security fasteners available)

Note: Glass stops to interior also available

5° Inclined glazing available for glare reduction (contact factory)

Built to order per customer’s requirements
Multiple frame configurations and profile options available
Level 4
Model BSW-4 / Bullet & Ricochet Resistant Windows

**Description**
Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.

**Materials**
1. Cold Rolled Steel
2. A60 Galvanized
3. Stainless Steel
4. Bronze

**Frames**
Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations

**Glazing**
1. 1-1/4" Glass Clad Polycarbonate required
2. Glass and glazing not included (standard)
3. Optional 5° Inclined glazing for glare reduction
4. Optional Concealed glass stop fasteners

**Finishes**
Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes

**Fire Rating**
Per UL10C / UBC7-2 Positive Pressure
Up to 1-1/2 Hour Rating See Fire Rated

**Sound**
See Sound Control

**UL752 Level 4 Test Criteria**
Indepenently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>M1 Garand, 30-06, .30 cal</td>
<td>.30 cal, 30-06, 180 gr. JSP</td>
<td>1</td>
<td>2,540 to 3,025</td>
<td>1 shot, centered</td>
<td>.125 cardboard @ 18&quot;</td>
<td>(-26/72) 55, 72, 95, 120F</td>
</tr>
</tbody>
</table>

**Profiles Available to Accommodate any Type Wall Construction**

**5° Inclined Glazing Available for Glare Reduction**
(Contact Factory)

**1-1/4" Glass Clad Polycarbonate**

**Safe Side**

**Removable Glass Stops**
(Concealed or Security Fasteners Available)

**Note:** Glass stops to interior also available

---

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Stiles Custom Metal Inc
1885 Kinser Road
Ceres CA USA 95307
T 209 538 3667
F 209 538 2776
E sales@stilesdoor.com

www.stilesdoor.com

BR-5.4
Level 5
Model BSW-5 / Bullet & Ricochet Resistant Windows

Description: Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.

Materials:
1. Cold Rolled Steel
2. A60 Galvanized
3. Stainless Steel
4. Bronze

Frames: Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations.

Glazing:
1. 1-5/16" Glass Clad Polycarbonate required; See Glass
2. Glass and glazing not included (standard)
3. Optional 5° Inclined glazing for glare reduction
4. Optional Concealed glass stop fasteners

Finishes:
Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available; See Finishes.

Fire Rating:
Per UL10C / UBC7-2 Positive Pressure
Up to 1-1/2 Hour Rating; See Fire Rated.

Sound: See Sound Control

UL752 Level 5 Test Criteria
Indepependently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>H&amp;K G3, 7.62 X 51 NATO</td>
<td>.30 cal, 7.62 NATO, 150 gr. FMJ</td>
<td>1</td>
<td>2,750 to 3,025</td>
<td>1 shot, centered</td>
<td>.125 cardboard @ 18°</td>
<td>(-26/72) 55, 72, 95, 120°F</td>
</tr>
</tbody>
</table>

Profiles available to accommodate any type wall construction

Safe Side
Mullions Available
Anti Spall Surface

1-5/16" Glass Clad Polycarbonate

Removable Glass Stops (Concealed or Security Fasteners Available)
Note: Glass Stops to Interior also available

5° Inclined Glazing Available for Glare Reduction (Contact Factory)

Built to order per customer’s requirements
Multiple frame configurations and profile options available

www.stilesdoor.com  BR-5.5

Stiles Custom Metal Inc
1885 Kinser Road
Ceres CA USA 95307
T 209 538 3667
F 209 538 2776
E sales@stilesdoor.com

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Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.

**Materials**
1. Cold Rolled Steel
2. A60 Galvanized
3. Stainless Steel
4. Bronze

Frames
Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations.

**Glazing**
1. 1-1/4” Glass Clad Polycarbonate required See Glass
2. Glass and glazing not included (standard)
3. Optional 5° Inclined glazing for glare reduction
4. Optional Concealed glass stop fasteners

Finishes
Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes

Fire Rating
Per UL10C / UBC7-2 Positive Pressure
Up to 1-1/2 Hour Rating See Fire Rated

Sound
See Sound Control

**UL752 Level 6 Test Criteria**
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baretta 9mm Parabellum</td>
<td>9mm, 124 grain FMJ</td>
<td>5</td>
<td>1,400 to 1,2540</td>
<td>5 shots, 4.5” square</td>
<td>.125 cardboard @ 18”</td>
<td>72F</td>
</tr>
</tbody>
</table>

Profiles available to accommodate any type wall construction

Mullions available

Anti Spall Surface

1-1/4” Glass Clad Polycarbonate

Removable glass stops (Concealed or security fasteners available)

Note: Glass stops to interior also available

Built to order per customer’s requirements
Multiple frame configurations and profile options available

www.stilesdoor.com
Stiles Custom Metal Inc
1885 Kinser Road
Ceres CA USA 95307
T 209 538 3667
F 209 538 2776
E sales@stilesdoor.com

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Level 7
Model BSW-7 / Bullet & Ricochet Resistant Windows

Description
Ballistica™ built-to-order bullet resistant windows come complete with frame, removable glass stops and stop fasteners.

Materials
1. Cold Rolled Steel
2. A60 Galvanized
3. Stainless Steel
4. Bronze

Frames
Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations

Glazing
1. 1-7/8" Glass Clad Polycarbonate required See Glass
2. Glass and glazing not included (standard)
3. Optional 5° Inclined glazing for glare reduction
4. Optional Concealed glass stop fasteners

Finishes
Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes

Fire Rating
Per UL10C / UBC7-2 Positive Pressure
Up to 1-1/2 Hour Rating See Fire Rated

Sound
See Sound Control

UL752 Level 7 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colt M16, 5.56 X 45 NATO</td>
<td>.223 cal, 5.56 NATO, 55 gr. FMJ</td>
<td>5</td>
<td>3.080 to 3,388</td>
<td>5 shots, 4.5&quot; square</td>
<td>.125 cardboard @ 18&quot;</td>
<td>72F</td>
</tr>
</tbody>
</table>

Built to order per customer’s requirements
Multiple frame configurations and profile options available

1-7/8" GLASS CLAD POLYCARBONATE

5° INCLINED GLAZING AVAILABLE FOR GLARE REDUCTION (CONTACT FACTORY)

PROFILES AVAILABLE TO ACCOMMODATE ANY TYPE WALL CONSTRUCTION

SAFETY SIDE

MULLIONS AVAILABLE

ANTI SPALL SURFACE

REMOVABLE GLASS STOPS (CONCEALED OR SECURITY FASTENERS AVAILABLE)
NOTE: GLASS STOPS TO INTERIOR ALSO AVAILABLE

© Stiles Custom Metal, Inc., 2010 / 0912
Level 8
Model BSW-8 / Bullet & Ricochet Resistant Windows

<table>
<thead>
<tr>
<th>Description</th>
<th>Ballistica™ built-to-order bullet resistant steel windows come complete with frame, removable glass stops and stop fasteners.</th>
</tr>
</thead>
</table>
| Materials   | 1. Cold Rolled Steel  
2. A60 Galvanized  
3. Stainless Steel  
4. Bronze |
| Frames      | Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, transoms, sidelites, etc. See Frame Profiles and Frame Elevations |
| Glazing     | 1. 2" Glass Clad Polycarbonate required See Glass  
2. Glass and glazing not included (standard)  
3. Optional 5° Inclined glazing for glare reduction  
4. Optional Concealed glass stop fasteners |
| Finishes    | Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available See Finishes |
| Fire Rating | Per UL10C / UBC7-2 Positive Pressure  
Up to 1-1/2 Hour Rating See Fire Rated |
| Sound       | See Sound Control |

UL752 Level 8 Test Criteria
Independently tested in accordance with UL 752 (10-5-05) requirements.

<table>
<thead>
<tr>
<th>Weapon</th>
<th>Ammunition</th>
<th>Shots</th>
<th>Velocity (ft/sec)</th>
<th>Shot Spacing</th>
<th>Witness Plate</th>
<th>Test Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>H&amp;K G3, 7.62 X 51 NATO</td>
<td>.30 cal, 7.62 NATO, 150 gr. FMJ</td>
<td>5</td>
<td>2,750 to 3,025</td>
<td>5 shots, 4.5&quot; square</td>
<td>.125 cardboard @ 18&quot;</td>
<td>72F</td>
</tr>
</tbody>
</table>

Built to order per customer’s requirements
Multiple frame configurations and profile options available

2" GLASS CLAD POLYCARBONATE

PROFILES AVAILABLE TO ACCOMMODATE ANY TYPE WALL CONSTRUCTION

SAFETY SIDE

MULLIONS AVAILABLE

ANTI SPALL SURFACE

REMOVABLE GLASS STOPS
(CONCEALED OR SECURITY FASTENERS AVAILABLE)
NOTE: GLASS STOPS TO INTERIOR ALSO AVAILABLE

5° INCLINED GLAZING AVAILABLE FOR GLARE REDUCTION
(CONTACT FACTORY)

SAFE SIDE
**Levels 1-8**

**Model BTW / Bullet Resistant Transaction Windows**

<table>
<thead>
<tr>
<th>Description</th>
<th>Ballistica™ built-to-order bullet resistant transaction windows come complete with frame, removable glass stops, deal tray, counter, and speaker port.</th>
</tr>
</thead>
</table>
| **Materials** | 1. Cold Rolled Steel  
2. A60 Galvanized  
3. Stainless Steel  
4. Bronze |
| **Frames** | Fully welded frame is manufactured to accommodate any type of wall construction. Various designs available including single and multiple lites, etc.  
See Frame Profiles and Frame Elevations |
| **Glazing** | 1. Glass Clad Polycarbonate required  
2. Glass and glazing not included (standard)  
3. Multiple options with deal trays & drawers  
4. Multiple options with in-glass speaker ports  
5. Optional frame activated speaker ports available |
| **Finishes** | Gray, EPA Approved, Alkyd, zinc compound primer, standard. Finish paint also available  
See Finishes |

**Accessories**

- **Viewers**
- **Gun Ports**
- **Speaker Ports**
- **Deal Trays & Transaction Drawers**

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Stiles Custom Metal Inc  
1885 Kinser Road  
Ceres CA USA 95307  
© Stiles Custom Metal, Inc., 2010 / 0912  
www.stilesdoor.com  
T 209 538 3667  
F 209 538 2776  
E sales@stilesdoor.com  
BR-6.0
## Bullet Resistant Glass
### Glass Clad Polycarbonate

<table>
<thead>
<tr>
<th>UL752 Level</th>
<th>Item No.</th>
<th>Description</th>
<th>Thickness In.</th>
<th>Weight lb/ft²</th>
<th>Max. Lite Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GLO-SP175</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>3/4&quot;</td>
<td>7.14</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>2</td>
<td>GLO-SP293</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>15/16&quot;</td>
<td>10.34</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>3</td>
<td>GLO-SP311</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>1-1/8&quot;</td>
<td>12.19</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>4</td>
<td>GLO-SP412-A</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>1-1/4&quot;</td>
<td>14.04</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>5</td>
<td>GLO-SP513</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>1-5/16&quot;</td>
<td>15.89</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>6</td>
<td>GLO-SP412-B</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>1-1/4&quot;</td>
<td>14.05</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>7</td>
<td>OLD-227100</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>1-5/8&quot;</td>
<td>18.50</td>
<td>60&quot; X 96&quot;</td>
</tr>
<tr>
<td>8</td>
<td>GLO-SP820</td>
<td>Clear Glass Clad Polycarbonate</td>
<td>2&quot;</td>
<td>21.21</td>
<td>60&quot; X 96&quot;</td>
</tr>
</tbody>
</table>

**NOTES:**
Glass clad polycarbonate is a proprietary lamination of successive layers of glass and an interior (non-threat side) layer of clear scratch-resistant polycarbonate.

Polycarbonate is one of the toughest clear plastics, having 250 times the impact strength of glass and is designed to flex and absorb the energy of the bullet. Furthermore, the polycarbonate will not break into shards (spalling) that may cause bodily harm to the building’s occupants.
Ballistica™ Bullet Resistant Doors & Frames
Quick Ship Availability - 1, 3, 5, or 10-Day Shipments
Cold Rolled, A60 Galvanized, Stainless Steel, and Glass Lite Models (Contact Factory for Specifics)

<table>
<thead>
<tr>
<th>Description</th>
<th>1 Day</th>
<th>3 Day</th>
<th>5 Day</th>
<th>10 Day</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Level 1</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>Standard or Tnemec Prime Paint</td>
</tr>
<tr>
<td>UL Level 2</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>Type 304 Stainless No. 4 Finish</td>
</tr>
<tr>
<td>UL Level 3</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 4</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 5</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 6</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 7</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 8</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>All Shotgun Levels</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Maximum Size</td>
<td>4-8 X 10-0</td>
<td>4-8 X 10-0</td>
<td>4-8 X 10-0</td>
<td>4-8 X 12-0</td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
1. Bullet resistant glass may not be available to meet all Quick Ship time frames. In such cases, doors may be Quick Shipped "open for glass," and glass shipped separately (if applicable).

Ballistica™ Bullet Resistant Fixed Windows
Quick Ship Availability - 1, 3, 5, or 10-Day Shipments
Cold Rolled, A60 Galvanized and Stainless Steel (Contact Factory for Specifics)

<table>
<thead>
<tr>
<th>Description</th>
<th>1 Day</th>
<th>3 Day</th>
<th>5 Day</th>
<th>10 Day</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>UL Level 1</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>Standard or Tnemec Prime Paint</td>
</tr>
<tr>
<td>UL Level 2</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>Type 304 Stainless No. 4 Finish</td>
</tr>
<tr>
<td>UL Level 3</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 4</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 5</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 6</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 7</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>UL Level 8</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>All Shotgun Levels</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Maximum Size</td>
<td>5-0 X 8-0</td>
<td>5-0 X 8-0</td>
<td>5-0 X 8-0</td>
<td>5-0 X 8-0</td>
<td></td>
</tr>
</tbody>
</table>

NOTE:
1. Bullet resistant glass may not be available to meet all Quick Ship time frames. In such cases, windows may be Quick Shipped "open for glass," and glass shipped separately (if applicable).
2. Bullet resistant glass is available max. 60" X 96" lites. Larger windows will require mullions.
PART I  GENERAL

1.01 SUMMARY
   A. Description: This section includes Bullet and Ricochet Resistant Steel Door, Frame and Window systems and Wood Doors that have been tested in accordance with UL 752, ASTM F1450, Section 7.1, “Bullet Penetration”, Level _____.
   B. Related work not included in this section:
      1. Steel doors and frames.
      2. Wood Doors.
      3. Finish hardware including lock cylinders and thresholds.
      4. Glass and glazing.
      5. Caulking between frames and masonry.
      6. Structural members.

1.02 QUALITY ASSURANCE
   A. Applicable standards of the following as referenced herein:
      2. ASTM, American Society for Testing and Materials.
      3. ADA, Americans with Disabilities Act.
      5. TM5-855-1 Fundamentals of Design for Conventional Weapons; Department of Army.
      6. UL 752 Bullet Resistant Equipment.
      7. WDMA, Wood Door Manufacturers Association
   B. Quality is based on the Ballistica™ products manufactured by Stiles Custom Metal, Inc. www.stilesdoor.com
   C. Manufacturer shall have been regularly engaged in manufacturing bullet resistant doors and frames for a period of ten years. Door and frame shall be fabricated by a single manufacturer. The manufacturer must have an effective quality control system in place.
   D. Allowable Tolerances as stated in NAAMM/HMMA Technical Manual and WDMA.

1.03 SUBMITTALS: Shop drawings: Indicate in elevation with sections and details to scale. Include UL Protection Level with independent test report, glass and metal thicknesses, joining details, field connections, anchorage, concealed and exposed fastening methods, door and framing reinforcement, and metal finishes. Indicate compliance with specified design criteria.

1.04 WARRANTY: Warrant Doors, Frames and Window assemblies against defect in materials and workmanship for three (3) years from date of shipment when handled, stored, and installed in accordance with manufactures instruction and NAAMM/HMMA Technical Manual.

PART 2 - PRODUCTS

2.01 DOORS
   A. Steel Doors shall be Ballistica™ Bullet and Ricochet Resistant Doors, Level _____ as manufactured by Stiles Custom Metal, Inc. www.stilesdoor.com
      1. Construction: Face sheets shall be minimum 16 gage steel. All doors shall be of the types and sizes shown on the approved submittal drawings and shall be constructed in accordance with the specifications.
      2. Door Core: The door shall be stiffened by continuous, vertical, formed steel sections supporting the bullet resistant core. Spaces between stiffeners shall be filled with sound deadening material.
      3. Door thickness shall be 1 ¾”. Doors shall be neat in appearance and free from warp-age or buckle. Edge bends shall be true and straight.
4. Vertical Edges: Door face sheets shall be joined at center of vertical edges and continuously welded full height of door with no visible seams on faces or vertical edges. Welds shall be finished smooth. Single acting doors - beveled 1/8” in 2” profile.

5. The top and bottom edges shall be closed with a continuous channel. Openings shall be provided in the bottom channel of exterior doors to permit the escape of entrapped moisture. Top of exterior doors shall be fitted with an additional flush closing channel and sealed water-tight.

6. Glazed Lite Kits (if applicable) shall be furnished complete with removable glass stops and glazing gasket seals designed and tested to meet required level.

7. Finish: After fabrication, all tool marks & surface imperfections shall be removed and faces of all weld joints shall be dressed smooth. Doors and frames shall be treated to insure maximum paint adhesion and shall be painted on all accessible surfaces with one coat of a rust inhibitive, modified Alkyd, Zinc compound, gray primer that meets or exceeds all ANSI A250.10-98 performance criteria. Primer coat shall be fully cured prior to shipment. Red or brown colored primers shall not be permitted.

B. Wood Doors shall be based on Ballistica™ Bullet and Ricochet Resistant Doors, Level ____ as manufactured by Stiles Custom Metal, Inc. www.stilesdoor.com

1. Construction: All doors shall be of the types and sizes shown on approved shop drawings.
2. Visible seams or joints on door faces are NOT permitted.
3. Veneer thickness, internal bullet resistant core and perimeter door edge construction to be manufacturers standard for the specified model.
4. Face veneer species, cut and color shall match that specified in “Wood Door” section.
5. Glazed Lite Kits (if applicable) shall be furnished complete with removable glass stops and glazing gasket seals designed and tested to meet required level.
6. Factory finishing of doors shall comply with AWI standards and the Wood Door Section.

2.02 FRAMES: Construction: Frames shall be a protection level equal to the door. Frames shall be constructed of minimum 16 ga. steel. Finish work shall be neat and free of defects. Corners shall be mitered and continuously welded full length of intersection. Knocked down, mechanical joints are not acceptable. All exposed welds shall be ground flush, finished smooth and free of defects.

2.03 BULLET / RICOCHET RESISTANT FIXED WINDOWS

A. Acceptable products shall be Ballistica™ Bullet and Ricochet Resistant Protection Level ____ as manufactured by Stiles Custom Metal, Inc. www.stilesdoor.com

B. Window Frame Constructed: minimum 16 ga. steel. Finish work shall be neat and free of defects. Corners shall be mitered & continuously welded full length of intersection. Knocked down, mechanical joints are not acceptable. All exposed welds shall be ground flush, finished smooth and free of defects.

C. Glass molding shall be furnished complete with fixed and loose glass stop system designed and tested to meet required bullet resistant level.

2.04 BULLET RESISTANT GLASS

2.04 BULLET RESISTANT GLASS

A. Glass for Door Lites: (choose)

[Glass shall be furnished and installation by the sound door / window manufacturer in type and thickness required to meet the STC rating.]

[Glass shall be furnished by the sound door / window manufacturer in type and thickness required to meet the STC rating. Glass installations shall taking place in the field by glazing contractor in accordance with the manufacturers instructions.]

[Glass shall be furnished and installed in the field by glazing contractor. Glass type, thickness and installation method in accordance with the sound door / window manufacturers instructions.]
Ballistica™ BULLET RESISTANT DOOR AND WINDOW SYSTEMS (continued)

B. Fixed Windows: (choose)

[Glass shall be furnished by the sound door / window manufacturer in type and thickness required to meet the STC rating. Glass installations shall taking place in the field by glazing contractor in accordance with the manufacturers instructions.]

[Glass shall be furnished and installed in the field by glazing contractor. Glass type, thickness and installation method in accordance with the sound door / window manufacturers instructions.]

2.05 FINISH HARDWARE: Doors and frames shall be mortised, reinforced, drilled and tapped at the factory for completely templated mortised hardware only, in accordance with the final approved hardware schedule and templates provided by the hardware supplier. Where surface mounted, anchor hinges, or non-template mortise hardware is to be applied, doors shall be reinforced, with all drilling and tapping done by others in the field. Reinforcement steel shall comply with NAAMM/HMMA 830 and 861.

PART 3 - EXECUTION

3.01 CLEARANCES AND TOLERANCES shall be in compliance with NAAMM / HMMA standards.

3.02 SITE STORAGE AND PROTECTION OF MATERIALS

A. Deliver and store materials to prevent damaging and marring finishes.

B. Protection: Protect metal surfaces from contact with lime, mortar, cement, acids, and other harmful surfaces and from careless handling, storage or machining.

3.03 INSTALLATION:

A. Framing systems shall be installed per Stiles instructions and NAAMM / HMMA 840. Install frames without use of exposed fasteners, except where indicated on shop drawings.

Door Installation: Install doors and hardware in accordance with manufacturer’s product data. Adjust hardware for proper operation. Adjust door closers for smooth operation throughout swing.

3.04 CLEANING: Clean doors and frames in accordance with manufacturer’s special instructions.

3.05 MAINTENANCE: Instruct the Owner’s Maintenance Personnel regarding the operation and maintenance of these doors.

End of Section