**Baffles**

To ensure you get exactly what you need for your specific range requirements, Range Systems safety baffles consist of combinations of three steel backings including 10 gauge mild steel, ¼" AR500 steel, and 3/8" AR500 steel. Each selection is available with two facing options, OSB or Dura-Panel™ ballistic rubber panel in 1” or 2” thicknesses. See chart on following page for ballistic capability by baffle and ammunition type.

Baffle sections can be bridged from wall-to-wall, suspended from the ceiling structure, hung vertically or angled. Load weight computations and recommended placement is provided to the range planner as a part of Range Systems design package.

**Sidewall System**

Tactical training situations often require the shooter to leave the firing line and advance downrange. Typically this type of training involves acute angle or cross-range firing to engage multiple targets. In this type of training environment, it’s essential to minimize the safety hazards of ricochet and splatter that can result from rounds impacting non-ballistic walls.

Fabricated from Dura-Panel™ ballistic rubber and steel plate, Range Systems ProTacts™ sidewall protection system safely stops and captures bullets that impact the sidewalls. To provide noise abatement along with ballistic protection, Pro-Tacts™ sidewall system can be designed with Acoustic Dura-Panel™ to absorb sounds and reduce reverberation.

**Safety Ceiling**

The area above the firing line is one of the most significant areas in a range where a misdirected shot could harm the shooter or overhead utilities. Range Systems ProTacts safety ceiling eliminates that risk by stopping, and completely encapsulating, the round in its path. ProTacts safety ceiling is constructed of Dura-Panel or Acoustic Dura-Panel cold-molded ballistic rubber panel and AR steel. Installing ProTacts from the firing line and extending twelve feet downrange reduces the risk of injury of a vertically misdirected shot by stopping the path of the round and safely containing it.
Acoustical Dura-Panel™ Research

Range Systems, in its continued effort to provide the safest shooting range and training environment available, developed Acoustical Dura-Panel to integrate into any new or existing shooting range environment.

Range Systems patented Acoustical Dura-Panel was designed and tested for its ability to abate sound and decrease the dangerous noise impact experienced on gun ranges – with dramatic results.

Through statistically sound research, Range Systems has found the product to be exceptionally effective in decreasing sound; while still maintaining its original ability to encapsulate spent rounds eliminating the concern for ricochet or back splatter.

Sound generated by all objects, including firearms, is measured in Hertz. Firearms generally register between 1,000 to 4,000 Hertz when fired, understanding the majority generate levels between 2,000 to 4,000 Hertz.

Range Systems Acoustical Dura-Panel™ demonstrated the following results:

- Absorbed 70% of all sound at 1,000 (Hz)
- Absorbed 95% of all sound at 2,000 (Hz)
- Absorbed 115% of all sound at 4,000 (Hz)

In comparing Acoustical Dura-Panel to other surfaces common to shooting ranges, the sound absorption coefficients results clearly show the advantages of Range Systems Acoustical Panel.

<table>
<thead>
<tr>
<th>Coefficients (Hz)</th>
<th>*Concrete Block Coarse</th>
<th>*Concrete Block Painted</th>
<th>*Concrete Floor</th>
<th>*Plywood – 3/8”</th>
<th>Range Systems Acoustical Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000</td>
<td>.29</td>
<td>.07</td>
<td>.02</td>
<td>.09</td>
<td>.70</td>
</tr>
<tr>
<td>2,000</td>
<td>.39</td>
<td>.09</td>
<td>.02</td>
<td>.10</td>
<td>.95</td>
</tr>
<tr>
<td>4,000</td>
<td>.25</td>
<td>.08</td>
<td>.02</td>
<td>.11</td>
<td>1.15</td>
</tr>
</tbody>
</table>

*Resource: ASTM Standard C423, Sound Absorption