

BULLET TRAPS

RUBBER BERM TRAP™

U.S. PATENT #'S 6378870 & 6533280

At its most basic level, a rubber berm trap is approximately 24 inches of chopped rubber laid on top of an angled support structure to create a backstop or "berm" to catch bullets fired into it. There are several approaches to this fundamental idea, but the same basic principles apply to them all. The hassle-free design of Action Target's rubber berm trap - or RBT - takes advantage of the practical and beneficial properties of rubber, while eliminating the weaknesses and unnecessary elements of other designs.

HOW IT WORKS

When you shoot into a dirt berm, the friction of passing through the dirt is what ultimately stops the bullet. A rubber berm trap works exactly the same way, with the obvious difference being the use of chopped rubber instead of dirt or sand.

Because the rubber is a softer collection medium, ricochet and lead dust can be significantly reduced in some applications. Cross-range firing is safer, as is firing at extremely close distances. Such benefits make this trap an excellent choice for certain indoor ranges and other low-volume ranges where lead dust is a paramount concern.

SUPPORT STRUCTURE

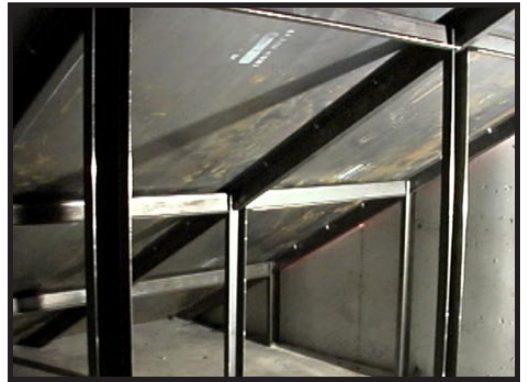
Our steel support structure is modular, so we can build a trap to fit any size range. Because all the components can easily fit through a normal sized door, installation is simple and efficient - even on older existing facilities. If one of the components is damaged, it can be easily removed and repaired without disassembling the entire trap. Because no hoppers, doors, or access panels are required on the top or the back of the trap, we can build it flush against the walls to save you as much precious range space as possible.

KEEPING THE RUBBER IN PLACE

If left unchecked, the rubber has a tendency to "flow" towards the bottom of the trap. This can cause areas of hazardous decreased density near the top which may allow rounds to escape. Additionally, you must now spend time and money getting the rubber back up on the berm where it belongs.

To eliminate these problems, our support structure is mounted with special fins that run horizontally along the trap. These fins are buried when installation is completed, and they help keep the rubber in place without the need for hoppers, bins, rubber curtains, or other devices.

OVER...



CONCERNS ABOUT FIRE

Fire is always a concern with any rubber trap, so we treat our rubber with a special non-flammable adhesive to further stabilize the berm, and we mix the adhesive with a fire retardant substance to help reduce fire hazard. This patented process of combining the fire retardant with an adhesive helps it stick to the rubber so it can actually serve its purpose.

TRAP CLEANING AND LEAD REMOVAL

As the number of rounds fired necessitates cleaning of the trap, the bullets must be mined from the rubber and disposed of properly.

Documented accounts reveal that for safety reasons, the trap should be cleaned after approximately 80,000 rounds per lane have been fired into it. In addition to custom cleaning equipment, special hazardous material permits are often required to remove and dispose of the lead.

The performance of the RBT can be impressive under certain low-volume shooting situations, but perhaps the greatest feature is its price. Please remember that there is only so much you can do to technically enhance chopped rubber. This technology does not have to be expensive!

Because value, reputation, and customer satisfaction are the sources of Action Target's strength, we provide a high quality rubber berm trap that functions as well as any other design out there, and we offer it at a reasonable price.



RUBBER BERM TRAP™
BULLET TRAPS
TECHNICAL DATA



PERFORMANCE CHARACTERISTICS

The rubber pieces have an average diameter of 19mm (3/4"), and have been treated with a fire retardant and adhesion promotion material. The minimum depth of rubber pieces for that trap is 24" perpendicular to the steel support structure, and 36" on a horizontal level. The trap uses a steel framework to support the rubber medium, and does not utilize a rubber cover or any other disposable materials.

To reduce the risk of fire, the rubber is treated with the flame retardant Borax Decahydrate. Borax is an effective chemical flame retardant used in a wide variety of products. The Borax treatment sets the flashpoint of the rubber beyond heat levels typically experienced in general range applications. Regardless of flame retardant treatments, tracers and other incendiary rounds are not to be used in any rubber bullet trap application. To promote adhesion and to reduce rubber degradation, a PVAC-based adhesive is applied to the chopped rubber. The properties of the adhesive maintain the lowest threat levels for health and fire hazards.

The galvanized steel framework is assembled with interlocking parts. The top steel plate is available in thicknesses from 10 ga. to 3/8", and in hardness ratings from A-36 to through hardened AR500. The framework and top plate have a smooth, consistent angle that eliminates any staircases or platforms built into the framework. The framework also maintains the trap's constant 30-degree angle from horizontal as well as the trap's minimum height of eight feet unless otherwise specified.

The trap is suitable to contain rounds of various calibers for handguns, shotguns, and sub machine guns firing jacketed and non-jacketed rounds including slugs and shot pellets. Muzzle velocity should be between 800 and 3600 fps. Energy levels should be less than 3600 ft. lbs.

The Rubber Berm Trap's design allows for collection of spent rounds for salvage or recycling. The trap may be cleaned at anytime and requires no rear access for cleaning or service. The trap typically requires cleaning between 80,000 to 100,000 spent rounds per lane. Exceeding the recommended cleaning time can result in excessive bullet fragmentation and adhesion. The trap is typically installed on flat, concrete pad or other suitable surface, and may be installed over an existing Berm, eliminating part or all of the standard steel framework.

STANDARD ACCESSORIES **OPTIONAL ACCESSORIES**

	<ul style="list-style-type: none"> • Side Wall Protection (Recommended) • Outdoor Bracing System (Structural)
--	---

GRADE	STEEL RATING	STEEL THICKNESS	LOCATION	HEIGHT	DEPTH	WIDTH	WEIGHT
Standard	A36	10 ga.	Indoor / Outdoor	8' 10"	17' 8" to 20'	Any	1,300 lbs. / linear foot
High Power	AR500 & A36	1/4" inch	Indoor / Outdoor	8' 10"	17' 8" to 20'	Any	1,400 lbs. / linear foot
Heavy Duty	A36	3/8" inch	Indoor / Outdoor	8' 10"	17' 8" to 20'	Any	1,500 lbs. / linear foot