

## Searls™ Anti-Ricochet Shredded Rubber Panels



### MATERIALS SPECIFICATIONS

#### 1. Features

- a. Fire-retardant and extremely durable
- b. A nonconductive shredded rubber panel with excellent cushioning, thermal insulating and acoustic/vibration dampening properties
- c. Structurally resilient with high resistant to impacts
- d. Searls™ SRP is weather resistance, non-corrosive and suitable for both indoor and outdoor applications
- e. Used in professionally designed & installed anti-ricochet lining systems that contain ricochet and splash-back of rounds of calibres ranging from .38, 9 x 19mm Parabellum/Luger to 7.62 x 51mm NATO fired from various firearms

#### 2. Specifications:

- |  |  |
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| a. Density                               | 850 kg/m <sup>3</sup> (Nominal)                                |
| b. Hardness                              | 65 Shore A (Durometer)   |
| c. ASTM D412 (Tensile Strength)          | min. 4.8 MPa   |
| d. BS 476 Pt.7-97 (Surface Flame Spread) | Class 3  |
| e. ASTM G154 (Accelerated Weathering)    | No change in properties,<br>slight colour fading (2,000 hours) |

## STARBURST SPECS. NO: SE-AR02

### **Searls™ Anti-Ricochet Shredded Rubber Panels**

Searls™ anti-ricochet shredded rubber panels are manufactured in Asia to exacting standards and have been tested for their anti-ricochet properties. The panels can be easily fitted to any new or existing indoor or outdoor shooting range, to provide a neat, easily cleaned and safe surface for floors, walls or ceilings meeting both acoustic and anti-ricochet requirements.

The panels are pressure moulded from a proprietary composite mix of recycled shredded rubber fibres and urethane adhesive base with fire retardant additives and have a rough non-slip even surface. The material is weather resistant and UV-resistant and the surface can be cleaned easily by sweeping/vacuuming or by washing.

Panel Size	:	1000mm x 500mm or 1220mm x 610mm (+/- 1%)
Thickness	:	43 mm (+/- 1 mm)
Weight	:	approx. 36.5 kg/m <sup>2</sup>
Colour	:	Terracotta (red-brown), Forest Green, Black & Grey

Fitting the panels to walls and ceilings is by simple screw fixings through the panels, thus large areas can be covered in a short span of time. It is recommended that the anti-ricochet panels be fitted such that there is an air gap of at least 25mm to 50mm between the rear of the panels and the wall or ceiling. Proprietary concealed suspended ceiling systems are available to allow M&E services to run above the anti-ricochet surface.

When used as anti-ricochet flooring the panels can be used in its original surface finish or alternatively coated with resinous polyurethane compounds, providing a seamless surface. The polyurethane membrane surface coating is hard wearing, easily repaired, offers excellent grip and resistance to damage and can be cleaned or washed. The polyurethane finish is available in a wide variety of colours.

Searls™ anti-ricochet shredded rubber panels have been subjected to extensive testing for their anti-ricochet properties and found to comply with Range Safety Regulations.

Searls™ anti-ricochet shredded rubber panels have been designed, tested in accordance with international standards and proven to prevent ricochets from bullets or shards involving a wide variety of combinations of weapons, calibres and substrates. These include: -

Weapons	:	Pistol, revolver, carbine, SMG, rifle
Calibres	:	.38, .357, .45, 9mm, 5.56, 7.62
Substrates	:	Block, concrete, brick, mild steel, armoured steel

Dependent on the nature of the ammunition and the substrate used, the panels can absorb up to 10,000 rounds per m<sup>2</sup> without catastrophic degradation of the AR protection system.

THE PERFORMANCE OF ANTI-RICOCHET MATERIALS AND SURFACES IS DEPENDENT UPON THE OVERALL DESIGN, DETAILING AND INSTALLATION OF THE SYSTEM AS A WHOLE. IT IS RECOMMENDED THAT ALL ANTI-RICOCHET SYSTEMS BE DESIGNED AND INSTALLED BY SPECIALISTS.