



ROOF DEFENSE AND TRACK DEFENSE SHIELD

Improved Protection - Eliminates False Perimeter Alarms

Product Overview

The Roof Defense Shield (RDS) and Track Defense Shield (TDS) are active intrusion alarm systems designed to protect valued areas. Both products activate and notify based on any on-site contact generated by more than 40 lbs of pressure.

The Roof Defense Shield is constructed of three layers of rubber - we create a water neoprene resistant “pocket” that contains the pressure sensors and over that “pocket” we install an OSHA rated mat with a non-skid surface.

The Track Defense Shield is constructed of two layers of neoprene, the top layer meeting ASTM standards for fire and smoke resistance (ASTM E662 and ASTM C542), it is self-extinguishing so it can be used in any public transportation application.

Standard length for Roof Defense Shield is 25 feet but custom lengths are available. Joining multiple lengths is as simple as connecting the wires using water proof connectors.

The HS1 Controller supports up to 2,000 linear feet per input, each controller comes standard with 8 inputs.

Technology

The Roof Defense Shield and the Track Defense Shield product is embedded with a specially designed electrical system that in conjunction with the HS1 Controller, tracks intrusion and generates the precise location of the intrusion.

The unique specifications of the RDS provide detection when activated by pressure of over 40 lbs (18.15 kg). Small animals, birds, wind, rain or snow will not activate the Roof Defense Shield, thus eliminating intrusive and expensive false alarms.

Communication Functions

Using the HS1 Controller, any intrusion can be set to activate an instantaneous notification to security personnel, management team, police or the homeowner via fiber, Ethernet, WiFi, cell modem or microwave systems.

Communication Functions

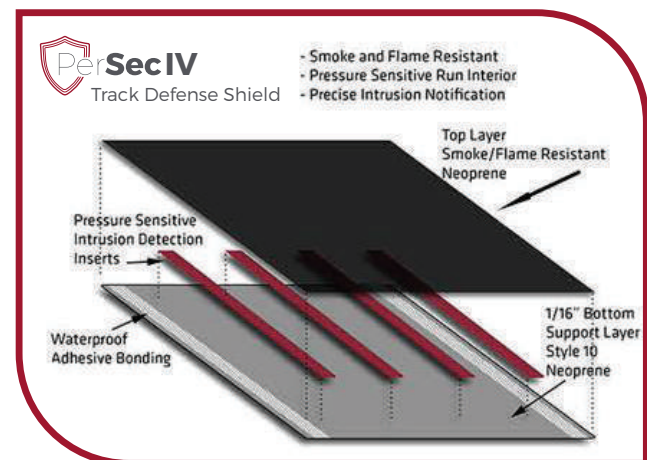
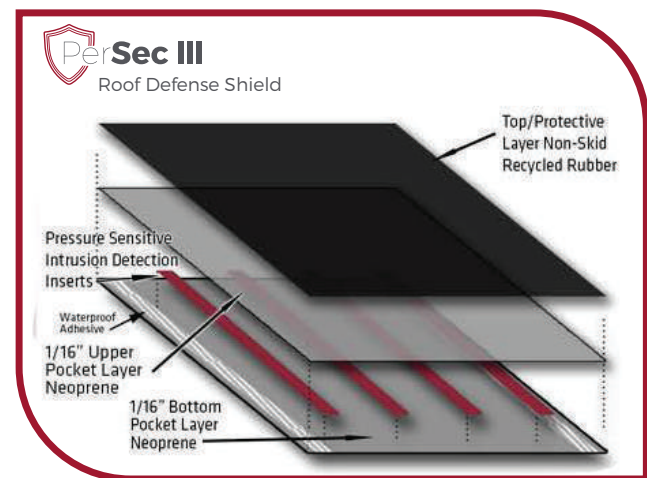
Upon an intrusion, the HS controller system sends a timed response that can immediately activate, up to four activities. Our HS controller hands of a dry contact to your existing alarm panel to activate:

- Security Flood Lighting
- Sirens
- Horns
- Alarms

Alarms and security lighting can be timed devices that notify the site personnel residents of an intrusion and can be timed to turn off automatically.

Other Activations

The HS Controller notification function can activate existing cameras to start recording an intrusion in a specific zone.





MATTING MATERIAL SPECIFICATIONS

Protective Pocket Layer

Material: Neoprene

Temperature Range: -40° to 220° F

OSHA Non-Skid Layer

Material: Recycled Rubber

Temperature Range: -20° to 170° F

Sensor Elements

Material - External: Neoprene

Material - Internal: Conductive Metal Alloy

Temperature Range: -40° to 220° F

Operating Voltage: 32 Vdc/32 Vac Maximum

Operating Current: 1 amp Maximum

Standards: UL and cUL Recognized

Operating Life: 5 million cycles

Waterproof Adhesive Bond

Material: Silyl Modified Polymer (SMP)

Temperature Range: -40° to 248° F

Standard Sizes

Width: 36", 48", 72"

Length: Roof Shield - 5', 10', 25'

Exit Shield - 3'x4'

Thickness: 1/16"-3/4"

Track Shield - 10', 25', 50'

Note: Custom sizes/thickness available upon request

School Entrance/Exit RDS Exit Product



Solar Protection RDS Rooftop Product



Skylight Protection RDS Rooftop Product



Transportation Station Track Defense Product



HVAC Protection RDS Rooftop Protection



Neoprene Specs

Neoprene Specs	TDS	RDS
Origin	Made in USA	Made in USA
Polymer	Neoprene	Neoprene
Temp Range	-40 to 220° F	-20 to 170° F
Specifications:	Smoke and Flame Retardant RoHS Compliant	

Physical Properties

Hardness (Shore A)	65 +/- 5	40 +/- 5
Tensile (psi)	1500	800
Elongation (%)	500	350

ASTM Specification	ASTM E662 ASTM C542 (ASTM C1166 Procedure) Bombardier SMP 800 C Boeing BSS 7239 US 94V0	ASTM D2000 1BC 408 SAE J200 1 BC 408, MIL R 3065 SC 408Z
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HS1 Controller

Available with Ethernet, Fiber and/or optional WiFi

The HS1 Controller is tamper-proof, with an "always on" function, the internal battery & charging system maintains operation up to 6 hours in case of loss of primary power while sending you a "powerful interrupt" message.