

# Permanent RoadBlade System

## RB 4400

## RoadBlade International



Locations, such as military bases and government facilities, that are at risk for terrorist attacks require additional physical security in order to protect their perimeter long before they reach vital assets and operational areas. The RoadBlade tyre shredding system stops a targeted vehicle and prevents them from entering restricted areas.

The Permanent RoadBlade tyre shredding system is recommended for fixed sites and gate entrance or exit applications, where there are high traffic volumes. It is designed to sit flush with the road surface, therefore it will not hinder everyday traffic.

The RoadBlade reduces the risks that come along with hard-stopping systems such as steel plates or bollards. It provides a physical barrier to disable unauthorised vehicles from entering installations while inflicting minimal damage to the vehicle. Placing the RoadBlade a distance from those types of devices provides additional reaction time for security personnel and safety of the suspect vehicle such as an intoxicated or an innocent driver.

### » Permanent RoadBlade Package

#### Contains:

1 - Actuator box , 1 - Pole mount box , 1 - Power connection cable , 1 - Control connection cable , 1 - Two button pendant control , 7 - 50.8 cm cut modules , 5 - Prefabricated trenches

The Permanent RoadBlade system has a standard length of 3.66M and can be extended to a maximum of 7.62M, per control box. Cut modules sit flush with the road surface with the help of our prefabricated trenches. Designed specifically for our system, they make the installation process easier. The pole mount box removes the electronics from the ground and enables add-ons, such as the wireless remote control, to be easily installed. A 250 pound torque motor allows for on-demand activation, raising or lowering the blades in less than one second.



### » Benefits & Features

- The pole mount box **removes the electronics from the ground and enables integration with other systems.**
- With the system installed flush with the road surface, **traffic will not feel it's presence** and it will not interfere with snow removal.
- The Permanent RoadBlade can requires only two dry contacts to be **integrated with new or pre-existing access control devices** such as arm barriers, keypad entry systems, proximity card readers, and more.
- Heating elements are available as an accessory item. They are installed underneath the modules to **maintain a constant temperature above freezing** in order to prevent ice build-up.

# Permanent RoadBlade system Technical Specifications

## » *Electronics*

- Power requirement: 120 Volts 5 Amps or 240 Volts 2 Amps per system.
- DC battery back-up is standard for each system.
- Pole mount box removes electrical components from the ground surface.
- Pole mount box allows integration with other security devices.
- Control cable wire - 7 strand 16 gauge with an outside diameter total of .706 cm.
- Power cable wire - 3 strand 12 gauge with an outside diameter total of .780 cm.
- Input power runs to the pole mount box and then is dispersed out to the control box.
- System can be run off of either direct AC or DC power.
- Pole mount box provides plug for stop/go light.

## » *Installation Trench*

- Each trench is 101.6 cm long, 17.78 cm wide, and 12.7 cm high.
- The last trench can be cut to length with a masonry circular saw blade.
- Each trench will have a 7.62 cm knock out for a drainpipe.
- Each trench contains a male and female end to allow ease of connection.
- Each trench contains 4 mild steel rails with two mounting screws on each rail to allow the RoadBlade modules to be bolted to the trench.
- Comprised of mineral aggregate with a risen binding agent.



## » *Individual Cut Module*

- Individual modules are 50.8 cm long, 16.8 cm wide, and 3.18 cm high.
- Each module contains five individual retractable stainless steel blades.
- Two modules are required per one 50.8 cm prefabricated trench.
- Each module contains four 1.92 cm mounting holes to connect to the prefabricated trench.
- Each module will have two 1.91 cm locking connections to connect to the next module.
- Able to withstand 52 tons of pressure.
- Comprised of 356 T51 Aluminum, weighing 17 pounds.
- Powder coated to resist corrosion.



## » *Individual Blade*

- Blade height is 6.99 cm; width is 9.84 cm.
- Mounted to the module using two 2.86 cm mounting plates and four screws to lock the blades in.
- When retracted, the blades sit recessed in the module to allow vehicles to pass over unharmed.
- When active, the blades are spaced 10.16 cm apart.
- While activated, vehicles will not be able to pass over the system in either direction without severe tyre damage.
- Blades are field serviceable and replaceable.
- Each blade has 4 separate angles for insertion into tyres; two outside angles 77 are degrees, and the two inside angles are 48.5 degrees.
- Comprised of 17-4PH Stainless Steel, CB7CuI, ASTM A747.
- Solution annealed and aged (H925 condition) to a hardness of RC38 Min.
- Measurement of connecting ears to shaft require a distance of 2.28 - 2.33cm.
- Finish of blades are 125 RMS.
- Blades are power coated per customers request; black color is standard when no request is made.
- Center shafts connecting the blades are comprised of stainless steel.



Ask about our other safety and security products: ***portable and permanent speed bumps, portable barricades, arm barriers, and more.***



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