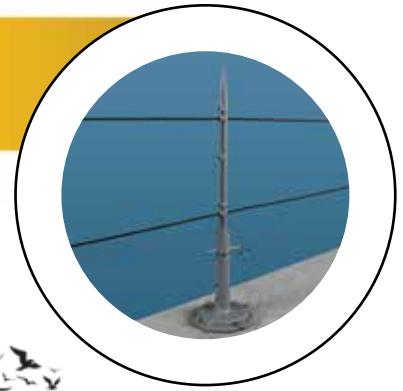




# TowerGuard™

<b>WHERE TO USE</b>	Long, exposed ledges, parapets, signs, beams, pipes, railings
<b>TARGET BIRD</b>	Gulls, Cormorants, Vultures, Osprey, Hawks and Owls and other large birds
<b>BIRD PRESSURE</b>	Light - Heavy
<b>MATERIAL</b>	UV Stabilized Plastic, polyester line, some metal parts
<b>INSTALLATION</b>	Secure posts to the structure. Run wire or polyester cord loosely through the holes in the posts.
<b>INSTALLATION LEVEL</b>	Easy



Crossarm installation to deter Ospreys.



Installation on railings to deter Vultures and California Condors.



An installation on a pier to keep Gulls and Cormorants from perching

## How it Works

Tower Guard deters Gulls, Cormorants, Vultures, Osprey, Hawks and Owls and other large birds. It creates both a visual and physical barrier for railings and flat surfaces. Birds are looking for a low “cost of energy” perch that is easy and safe. As they view the Guard, they see that it takes away the perch and it is too small and unstable to land on.

## Removable

By pulling a simple pin, the posts can be easily removed from the bases. This allows for maintenance on antennas and railing where access is important.

## Material

Made from the same plastic that the telecom industry uses for its outdoor boxes. It's well documented to withstand UV degradation for many years.

## Non-Metal Options

For sensitive applications (radar and radio sites), the Tower Guard system can be installed without metal parts. Use the polyester cord (not the metal Birdwire), and replace the Post Locking Pin with a short length of polyester cord, knotted as shown on the opposite page.

## Mounting Options

The V base can fit on a round or square railing. These can be attached with plastic cable ties, metal hose clamps or with nails/screws on a wood structure.



The round/flat base can be placed on beams with magnets, metal parapets with a washer and adhesive, and on wood with nails or screws.

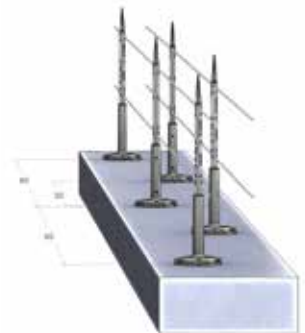
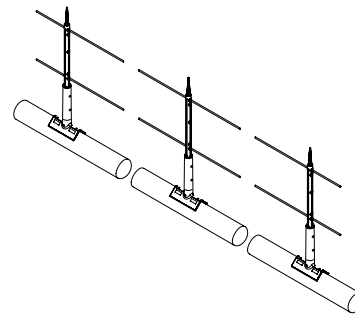


## Safety Tip

In areas where people may come in contact with the posts, a version with a yellow rounded safety cap is an option.

## Placement

Flat Surface - Posts should be no more than 2 in. from the outer edge. They should be no more than 5 ft. apart from each other. When running multiple rows, stagger the posts as shown in the diagram.



Railing - Posts should be no more than 5 ft. apart from one another.



# TowerGuard™

## Tower Guard Posts

The posts are 14" tall and are 1/2" in diameter. They are designed to accommodate different heights of cord or wire. We recommend using one of the top and bottom holes to create those levels. Both the cord and wire are easily pulled through the holes. High winds and temperatures do not affect the posts. The post tip adds an extra repellent feature, but if safety is a concern, the Safety Posts, featuring a yellow cap, should be used.

Tower Guard Posts (25)	TG-P05
Tower Guard Safety Posts (25)	TG-P10

## Wire and Cord

The stainless wire offers lower visibility for sensitive areas, whereas the polyester cord is more of a visual irritant to the birds. Both options create the barrier to deter large bird species. Leaving a little slack in the line adds another imbalance for those that try to perch. Use the cord if a non-metallic installation (for communication towers and radar installations) is required.

Birdwire, Nylon Coated SS, 250 ft.	BW-W010
Birdwire, Nylon Coated SS, 500 ft.	BW-W020
Birdwire, Nylon Coated SS, 1,000 ft.	BW-W030
Birdwire Crimps (100)	BW-C000
Birdwire Crimping Tool (ea)	TO-BW10
Polyester Cord, 1/8", 500 ft.	TG-PC05
Polyester Cord, 1/8", 1,500 ft.	TG-PC15

## Post Lock

Tower Guard bases come standard with a metal safety pin to lock the post into the base. For non-metallic installations, substitute the polyester cord, with two knots. This is a fast and easy application. UV stable zip ties can also be used for a non-metallic installation.

Post Lock Safety Pin (30)	TG-B30
Post Lock Zip Ties 7" (30)	TG-B15

## Tower Guard Bases

Both bases stand 5 in. tall without the posts. Choose the right base for the surface being protected (see box at bottom of page 38). Generally, the V-base is for tubes, and the round base is for flat surfaces. Mount the bases 5' ft. apart. Stagger them every 2-1/2 ft. if installing multiple rows. Rows should be not more than 5" in. apart.

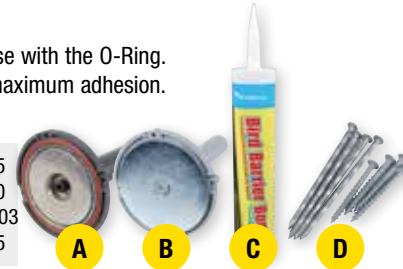
Tower Guard V-Base (5)	TG-B05
Tower Guard Round Base (5)	TG-B10



## Fasteners for Round Base

For steel surfaces, choose the magnetic base with the O-Ring. To glue to a surface, add the Flat Disk for maximum adhesion. For wood, use the Screw/Nail kit.

A. Magnet for Round Base (5)	TG-F05
B. Flat Disk to Glue Round Base (5)	TG-F10
C. Bird Barrier Bond 10.2 oz.	HA-BB03
D. Round Base Screw/Nail Kit (5 sets)	TG-F15



## Fasteners for V-Base

These can be attached with the UV-protected cable ties or the stainless hose clamp. Use a cable tie tool when installing the ties for a strong, consistent install (it tightens and cuts the excess length). The hose clamps should be tight, but not enough to damage the base. Both work in all environments. (Note: cold weather condition zip ties are also available).

Zip Ties, 120 lbs., 14" (10)	TG-F20
Zip Tie Application Gun (ea.)	TG-F25
Hose Clamps, SS, 1-3/4" - 2-3/4" (10)	TG-F30



Multiple rows of Tower Guard keep large birds off wide ledges like this metal parapet cap.



Installation on the edge of this roof repels California Condors.



Also available, galvanized steel solutions for towers.