

Priosk™ High Visibility Pedestrian Button Station

Product Information Sheet

Designed with high visibility in mind, the Priosk is a dual purpose pedestrian safety device providing improved visibility of the pedestrian crossing area as well as providing a structural design that will crumple upon impact. The crumple design reduces damage to the vehicle and minimizes the projectile effect of the device. The Priosk's intended use is for large signalized intersections, mid-block pedestrian crossings and for roadway biking/pedestrian trail crossings. Providing 360 degrees of visibility to the motorist, the Priosk provides added visibility to a crosswalk area, even for right turning vehicles. The cut-away design also provides added safety for the APS equipment as it is less likely to be struck by a pedestrian or bicyclist. The Priosk also utilizes a compound break-away system minimizing damage to both the vehicle striking the device as well as providing protection to the bolt anchoring system. The Priosk provides an excellent structure for today's expensive APS buttons that can now be attached in an attractive and highly functional device. Even with the high visibility of the Priosk structure, the footprint is less than 0.8 square feet. The Priosk can either be surface mounted or foundation mounted, depending on the surrounding surface conditions. The unit meets or exceeds current AASHTO breakaway standards.



Priosk Features

- *High Visibility*
- *Crumple design*
- *Excellent access for the user*
- *Protection for pedestrians and bicyclists*
- *Easy installation and replacement*
- *Compound break-away system*
- *Minimal footprint*
- *Mounts directly to concrete surface or foundation*
- *Smooth, catch free surfaces*
- *Simplifies meeting ADA requirements*

Photo to right showing Priosk with APS system. (APS system not included)

Ordering Options:

Mounting System:	Surface Mount	Foundation Mount
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Finishes:	Powder-Coat Natural Gray	Powder-Coat Jet Black
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Walking Person Orientation:	Directly below cut-out	Offset from cut-out
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Priosk Specifications

The 72 inch high visibility APS pedestrian button support shall be constructed in the following manner:

1. The APS high visibility support shall be constructed of two primary pieces consisting of the main aluminum body and the compound breakaway system.
2. The primary body shall consist of an aluminum tube with a hemisphere cap constructed of the similar aluminum materials. The primary vertical tube shall consist of 13 gauge 6061-0 aluminum.
3. The hemisphere cap shall consist of 3003 series aluminum of similar thickness to the main tube.
4. The filler rods to weld 6061 to 3003 shall be AL 5356.
5. The filler rods for welding 6061 to 6061 shall be AL 5356.
6. The overall height of the unit when mounted shall be 72 inches to the peak of the hemisphere and be 10 inches in diameter.
7. The main body shall have a recess of one-half the diameter of the tube where a recessed flat plate that provides a surface for the APS pedestrian button unit. The recess portion shall be located vertically to insure the APS pedestrian button will be 42 inches above the adjacent sidewalk area. The flat plate area shall be 10 inches by 22 inches with sloped transition areas on the top and bottom at approximately 22 degree surfaces with a 6 inch transition face from the mounting plate to the outside diameter of the tube. All welded edges shall be ground smooth. The main tube shall have a 5 inch by 5 inch access hole set flush with the remainder of the tube and fabricated from the same material as the tube body opposite from the flat recessed portion of the tube. The access door shall be mounted using a recessed edging 0.25 inches wide around the perimeter of the opening constructed from the same material as the tube body. The access door shall be secured by four, stainless steel security fasteners with 10 by 24 threads. The access door shall be the same color as the main body tube. The primary tube shall have an aluminum plate doubler 2.5 inches by 0.1 inches at the base with an outside diameter equal to the inside of the primary tube. The plate shall be constructed of the same material as the primary tube. The main body tube shall be fastened to the upper breakaway plate using 0.3125 by 1.0 inch with 18 TPI stainless steel security fasteners with a button top. The skirt shall be uniformly rolled aluminum sheet material. The skirt shall be coated in the same manner and color as the primary tube.
8. All joints, surfaces and welds shall be machined or ground smooth to the touch. There shall be no visible burrs, grind marks, slag or rough weld joints or edges.
9. The compound breakaway system will consist of: the top plate shall be one 0.5 inch by 9.75 in aluminum 6061 plate, have four symmetrical .3125 inch by 18 TPI threaded bolt holes placed at 90 degree intervals around the face of the plate, have four slotted holes 0.3125 inch wide by 2.3 inch long with a radius of 4.125 inches, the slots and the face holes shall be separated by a symmetrical 45 degrees; one 0.5 inch by 9.5 inch 6061 plate with twelve slotted holes of 0.625 inches by 0.865 inches with a bolt diameter pattern of 6.625 inches spaced equidistant apart on the top of the plate, have four 0.3125 inch holes equidistant apart on the top of the plate with a bolt diameter pattern of 8.25 inches and be spaced equally distant between the slotted holes; four 1.5 inch high by 0.75 inch outside diameter by 0.31 inch inside diameter aluminum spacers; four 3.25 inch long by 0.3125 inch diameter, grade 2 steel breakaway bolts with breakaway indents located at .55 inches and 2.05 inches from the hexagon head to form a reduced diameter of 0.25 inches for a section of 0.05 inches. The breakaway bolt shoulder shall extend 2.55 inches without threads. The threads shall extend 0.75 inches beyond the shoulder section of the breakaway bolt. Each breakaway bolt shall be secured using two stainless steel flat washers with a dimension of 0.6125 inch outside diameter by .2875 inch inside diameter by .046 thick and one stainless steel .3125 inch by 18 TPI nylon locking nut. The breakaway bolts shall be torqued to 60 inch pounds using a standard inch pound torque wrench. The lower base plate shall be fastened to the anchor bolts using either the galvanized nuts or stainless steel nuts, using the same material as the anchor bolts. The lower plate shall be sandwiched between a lower leveling nut, a flat washer with dimensions of 0.5625 inch inside diameter x 1.375 inch outside diameter x 0.1 inch thick, the plate, another oversized flat washer a 0.5 inch medium stainless locking washer and another 0.5 inch nut. The 0.5 inch nuts shall be torque to 45 foot pounds.
10. A free floating skirt unit shall be installed below the top plate of the breakaway system to isolate the bottom plate from the top plate. The skirt shall consist of the same material as the main tube that is rolled to fit over the 9.5 inch diameter lower breakaway plate. The skirt unit shall normally be 2.5 inches in height by 0.10 inches thick by 9.5 inches inside diameter. The skirt shall be open ended so it can be expanded to slip over the larger diameter upper plate. In locations with unusual grades or placement locations, a taller skirt may be required.
11. Powder coated units shall be thoroughly cleaned and rinsed prior to the powder coating process. The finished powder coat finish shall be smooth and consistent throughout the unit. Completed powder coat finishes shall be 2-3 mils in thickness. The metal during the powder coat process shall reach 400 degrees F for a minimum time period of ten minutes.

The reflective sheeting shall consist of two primary bands. The lower band shall be prismatic strong yellow green and be 28 inches high by 32 inches in length. The second band shall be 3 inches in height and 32 inches in length. The 28 inch sheeting band shall be bordered on the top and bottom with 0.75 inch black sheeting film or silkscreen inset 0.75 inches from the top and bottom border of the strong yellow green. The 3 inch strong yellow green band shall have a 0.5 inch black sheeting film or silkscreen border applied to the edge of the strong yellow green sheeting. Three 12 inch high walking men symbols shall be spaced equidistant around the perimeter of the lower strong yellow green sheeting band with one of the walking men symbols aligning or evenly spaced away from the APS button unit.

The Priosk is currently protected under Patent Pending rules and regulations.



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