





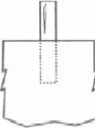




PRODUCT SPECIFICATIONS

Mounting Options

Bollard Anchoring Options

Option A (any model bollard)	Option B (any model bollard)	Option C (any model bollard)	
			Elevation
			Bottom/Plan
			Existing Pad (by others)

Note:
Option C is the most widely used method of anchoring bollards.

Option A:
Bollard is precast with hollow core. Dimensions of this core are pre-determined by the contractor, and need to be specified when placing order. Existing pad, slab, or sidewalk is cast with exposed vertical tubing or pipe to fit inside the core of bollard. Before bollard is set on exposed tube on the existing pad, epoxy, caulk, or other bonding agent is applied to core and/or vertical pipe for securing purposes. The bollard is then set in place.

Option B:
Bollard is precast with pipe or tube protruding from bottom of bollard. Dimensions of protruding pipe or tube are pre-determined by the contractor, and need to be specified when placing order. Existing pad, slab, or sidewalk is cast with sleeve correlating to protruding pipe on bottom of bollard. Before bollard is set, epoxy, caulk, or other bonding agent is applied to either the tube or pipe, and/or applied into the sleeves in the existing pad. The bollard is then set in place.

Option C:
Bollard is precast with a predetermined number and pattern of inserts into the bottom of the bollard. Size and pattern of inserts are determined by the contractor, and need to be specified when placing order. The existing pad, slab, or sidewalk is cast with sleeves correlating to the inserts in the bottom of the bollard. Threaded rod (included with purchase of bollard) are then screwed into the inserts in the bottom of the bollard. Epoxy, caulk, or other bonding agent is applied to the rod and/or into the sleeves in the existing pad, and the bollard is set in place.



Finish Options

Smooth Finishes (For Precast Concrete or GFRC)

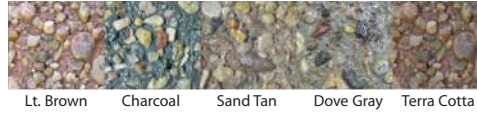


Lt. Sand Blasted (For Precast Concrete or GFRC)



Exposed Aggregate for Precast Concrete

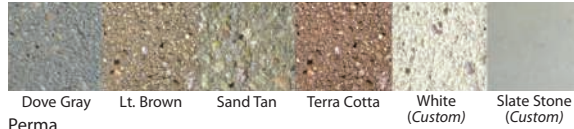
Dura Brite



Thermoplastic Colors



Etched



Perma

