

DESCRIPTION

The MORANO barrier bollard is available in two standard heights with a selection of mounting configurations. The simple top cap detail is machined from billet aluminum and press fit to the steel bollard shaft. Steel shaft is hot-dip galvanized prior to being finished in finely textured paint. Mounting variations include embedded, removable, flange mount, and collapsible models. Companion power/water bollard completes the product family. Standard colors; matte silver grey metallic, dark grey, graphite grey, black, dark bronze. Special RAL colors available. All hardware is stainless steel.

PROTECTED BY

PRIMAR®



Date: _____ Type: _____ Project: _____

Catalog Number: _____



ORDERING INFORMATION

BOLLARD			
MODEL	MOUNTING	FINISH	OPTIONS
MOR1100 3.5' Morano 1100 Barrier Bollard	C Collapsible Bollard	BL Black	CH1 Chain Holder on One Side
MOR900 3' Morano 900 Barrier Bollard	R Removable Bollard	DB Dark Bronze	CH2 Chain Holder on Two Sides
	E Embedded Bollard	DG Dark Grey	PK Pentagon Key for Emergency Vehicle Access (for Collapsible or Removable Bollards)
	F Flange-Mounted Bollard	GG Graphite Grey	RCP Removable Cover Plate (for Removable Bollards Only)
		SG Silver Grey	
		CC Custom RAL Finish	

Custom options are available; consult factory for assistance via phone at (864) 487-3535 ext. 255 or via email at DesignServices@EXP-Brands.com.

MOUNTING KITS (Required, Ordered Separately)

MOR900-1100-SI-REM

Removable Morano Mounting Kit - Soil Insert (for embedment into concrete)

MOR900-1100-SI-COL

Collapsible Morano Mounting Kit - Soil Insert (for embedment into concrete)

SPECIFICATIONS

HOUSING

Straight round bollard shaft is manufactured from cold drawn over mandrel, electric-weld, mechanical round steel tubing with nominal wall thickness of 0.126". Diameter of shaft is 4". Steel shaft is hot-dip galvanized prior to painting. Top element is machined from 6082 aluminum and press fit securely into the shaft. Bollard is finished in finely textured paint.

MOUNTING

Bollard is available with four mounting types:

COLLAPSIBLE - Collapsible bollard includes hot-dip galvanized steel insert for embedment into concrete to receive bollard. Bollard is installed or removed via key-activated internal steel rod that engages with the insert. Bollard is hinged at the base.

REMOVABLE - Removable bollard includes hot-dip galvanized steel insert for embedment into concrete to receive bollard. Bollard is installed or removed via key-activated internal steel rod that engages with the insert.

EMBEDDED - Bollard includes additional shaft length of 19.7" for embedment into a concrete foundation (by others).

FLANGE MOUNT - Flange model mounts to concrete foundation by others. Mounting hardware by others.

DIMENSIONS

MOR1100: 43.3" H x ø4"

MOR900: 35.4" H x ø4"

FINISH

Housing is cleaned ultrasonically prior to painting. Standard finishes are finely textured matte silver grey metallic, dark grey, graphite grey, matte black, or dark bronze. Special RAL colors available on request. Hess standard textured finishes feature proprietary PRIMAR® protective coating for long-term corrosion and UV protection.

WARRANTY

Limited product warranty is 5 years.

DIMENSIONS

