



FAAC SECURITY BOLLARD

J355 M50 F

PROCUREMENT SPECIFICATION

Fast Gate Openers
(Part of the DF Supply, Inc. Family)
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Static HIGH SECURITY BOLLARD shallow mounted FAAC J355 M50 F, tested in accordance to ASTM F2656-07 standard (Standard Test Method for Vehicle Crash Testing of Perimeter Barriers), via software 3D simulation.

APPLICATIONS:

Delimitation and protection of perimeter of critical areas like: military sites, airports, embassies, consulates, banks, marine zones, prisons, sensitive industrial sites or wherever high security is required.

PRODUCT FEATURES:

The blocking element is represented by a S355JR EN 10210 steel cylinder height 1200mm / 47 inches off ground, diameter 355mm / 14 inches (16mm / 0.6 inches thick), with built-in reinforcement disks and surface anti-corrosive treatment in cathoresis and polyester powder painted, or with additional jacket AISI 316L satin stainless steel.

The support structure displays fixing plates welded on the underground portion of the cylinder. Three H beams (supplied) made of S235JR (UNI EN 10027-1) have to be mounted on the fixing plates, employing the supplied UNI EN 20898 screws and bolts.

The bollard has to be placed in a shallow foundation – Shallow Mounted concept- realized as described in the installation manual, reinforced by employing $\geq \varnothing 12\text{mm}$ / 0,5 inches Class B450C iron bars, in compliance with ASTM A615 - Grade 60 and then filled with Class C25/30 concrete 10-30 (UNI EN 12620) To guarantee the maximum resistance of the bollard, the cylinder has to be filled with the same type of concrete.

This Bollard is designed to stop a vehicle weighing 6800 kg / 15000 pounds, running at 80Kmh / 50mph and having capability to adsorb at least an energy of 1.680.000 Joules as defined in accordance to ASTM F2656-07 standards.

The above performance are obtained in 3 units installations, as described in the installation manual.

Cylinder above ground is visible on all environment conditions, having a reflecting strip at least at 55mm / 2,2 inches height all around the cylinder itself, as well as LED lights –electric feeder not supplied-.

OPTIONS:

The cylinder finishing can be:

- Cathoresis and polyester powder painted Dark grey metallised
- Stainless steel satin finishing

ACCESSORIES:

A Stainless Steel ground plate can be added to obtain a perfect aesthetic coherency with the automatic (HA) version.

TECHNICAL SPECIFICATIONS:

J Series Model	J355 M50 F H1200	J355 M50 F H1200 INOX
Cylinder height from ground	1200mm / 47 inches	1200mm / 47 inches
Cylinder diameter	355mm / 14 inches	355mm / 14 inches
Cylinder material	Steel S355JR EN 10210 (16mm / 0.6 inches thick)	Steel S355JR EN 10210 (16mm / 0.6 inches thick)
Cylinder surface	Cataphoresis and polyester powder painted Dark grey metallized RAL 7021	AISI 316L satin stainless steel jacket
Head	AISI 304 stainless steel	AISI 304 stainless steel
Suggested Usage	Perimeter protection	Perimeter protection
Reflective strip height	55mm / 2.2 inches	55mm / 2.2 inches
Reflective strip colour	White	White
Break in resistance [J]	1680000 (3 units installations)	1680000 (3 units installations)
Total weight	685 kg / 1510 pounds	685 kg / 1510 pounds
Total weight including packaging	735 kg / 1620 pounds	735 kg / 1620 pounds
Excavation dimensions WxDxH	4000 x 2300 x 350mm / 158 x 90 x 14 inches *	4000 x 2300 x 350mm / 158 x 90 x 14 inches *

* add 10mm / 0.4 inches above the foundation to lay the pavement and 10mm / 0.4 inches below for the base of mud slab

FOUNDATION:

Concrete Specifications:	Class C30/37 Concrete with 10-30 aggregate according to UNI EN 12620 standard NOTE: bollard's performances are reached after at least 7 days of concrete setting
Surrounding ground compacting index	≥ 90% of the Proctor optimum curve, according to UNI EN 13286-2:2005 standard
Reinforcing foundation bars	≥ Ø12mm /0.5 inches iron bars B450C Class, according to ASTM A615 - Grade 60