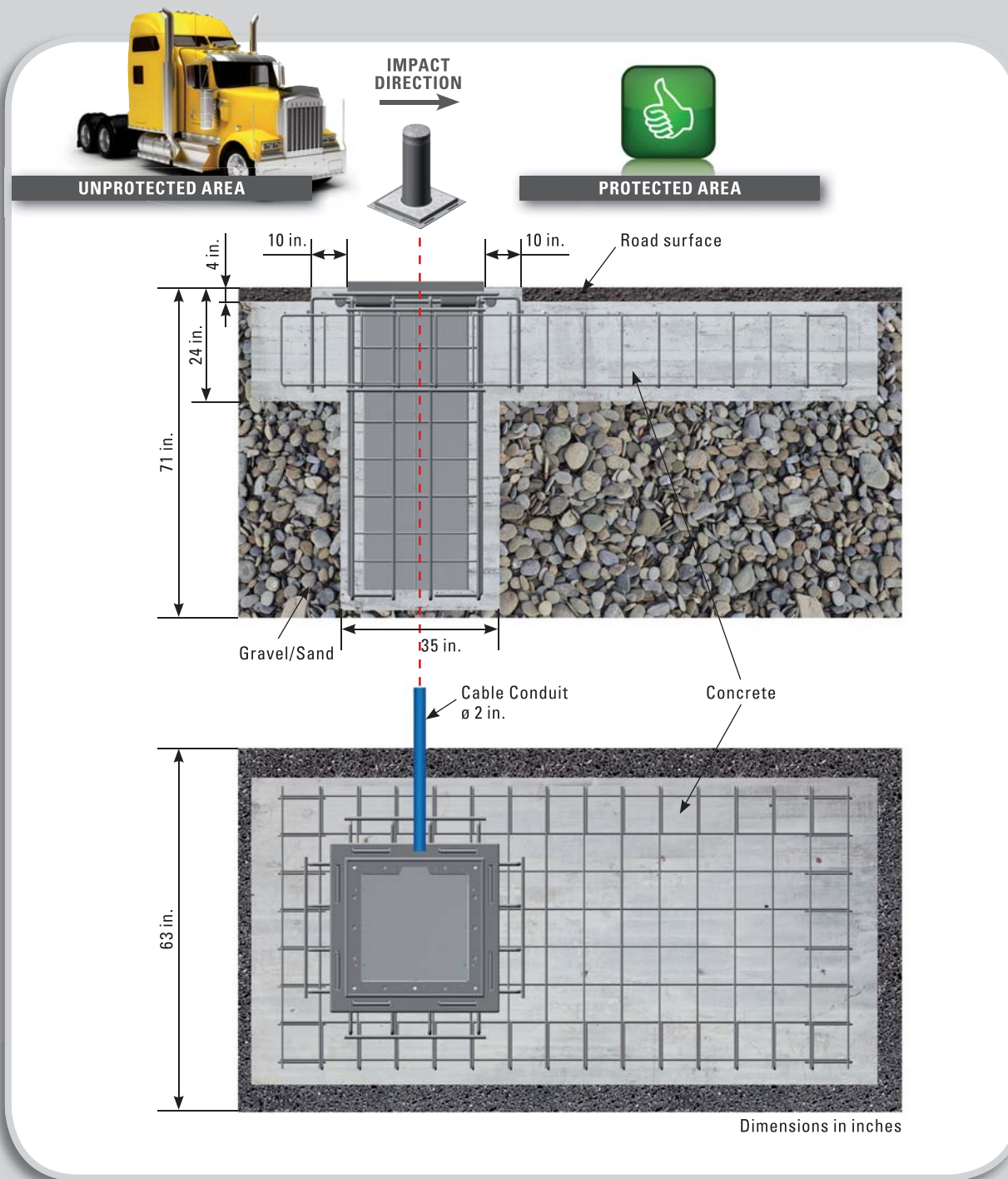


INSTALLATION LAYOUT



NOTE:

1. The foundation concrete can be poured directly into the dug-out area.
2. Concrete specifications:
 - A. Class C25/30
 - B. Concrete with 10-30 aggregate according to UNI EN 12620 standard
 - C. The bollard must be installed after at least 7 days of concrete setting.
3. The compacting index of the surrounding ground must be at least 90% of the "Proctor" optimum curve, according to UNI EN 13286-2:2005 standard.
4. The steel framework must comply with class B450C (ASTM A615 Grade 60).

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J355HA-M30-P1

New automatic high security & antiterrorist bollard
ASTM certified

FAAC

Simply automatic.

RISING TO THE CHALLENGE OF SECURITY VEHICLE ACCESS CONTROL

New solutions for security access control with J series bollard M30 class resistance. Activated by any access control system or signaling device, it is an alternative solution to fixed posts, allowing traffic management into certain zones by authorized vehicles only. J355HA-M30-P1 is the new FAAC retractable security bollard conceived for perimeter protection applications.

The bollard has been successfully tested in accordance to “ASTM F 2656–07 - American Standard Test Method for Vehicle Crash Testing of Perimeter Barriers” with the highest class P1 (less than 1 meter penetration).

The above class resistance is defined as 656.000 joules energy adsorbed; 15,000 lbs (6800 Kg) truck with a speed of 30 Mph (50 km/h).

The J355HA-M30-P1 is an all in one bollard with a built-in hydraulic drive unit optimizing the space required to install a bollard without the need for external pumps and pipes. The J355HA-M30-P1 is the solution to increase the security of perimeter protection.

The bollard can be used for a variety of applications to allow access to a sensitive area in need of extreme protection such as: airports, embassies, consulates, public offices, banks, marina’s.



INNOVATIVE SECURITY BOLLARD

- The J Series security bollard J355HA-M30-P1 has a number of exceptional features. The bollard has been tested in accordance to ASTM F 2656-07 M30 standards and achieved the highest penetration rating “P1”.
- All in one: bollard has a built-in hydraulic drive unit to avoid loss of power from underground pipes.
- No pipes with oil under pressure on underground ducts to avoid leakages or failure risks.
- Suitable duty cycle that allows the use in heavy traffic conditions.
- Emergency Fast Operation circuit (option) for rapid up-rise possible in 1.5 seconds (optional).
- Fail-secure position in case of power failure by hydraulic blocking.
- Steel cylinder, thickness 16 mm treated with cataphoresis and painted.
- Cylinder slides on central rail piston to provide optimal stability when raising and lowering the bollard.
- Built-in LED light grants visibility in all directions.
- Junction boxes and connectors are IP 66 rated.
- Stainless steel internal fixing frames.
- Control board: extremely reliable electronic unit able to manage one bollard.
- No special cables are required.

Accessories for automatic version

- Bollard pit JP355 (included with bollard)
- Pit heater JH355 (optional)
- Control unit for managing one bollard.

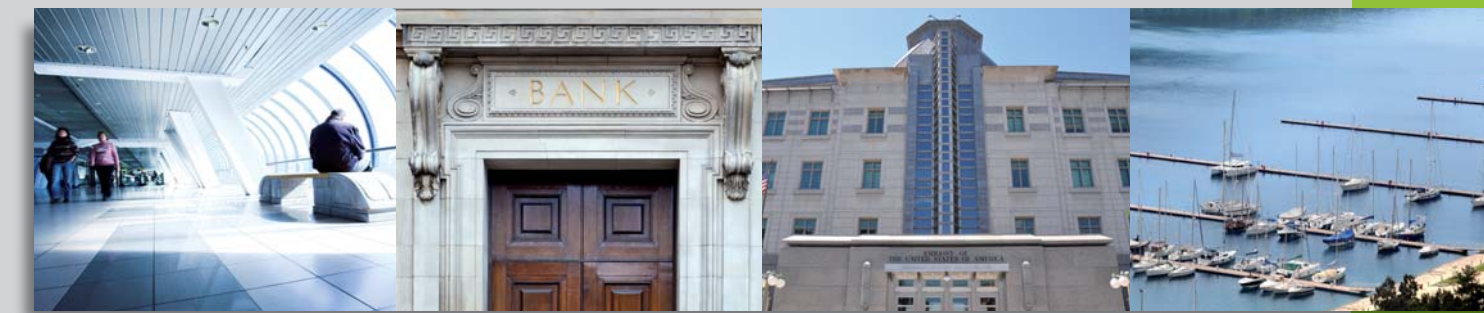
Options for automatic version

- RAL painting on request (not available on stainless steel)
- Stainless steel satin finishing
- E.F.O. Emergency Fast Operation for faster raising of the bollard.

TECHNICAL SPECIFICATIONS	
Drive	By hydraulic unit
Cylinder stroke	39 in. (1000 mm)
Cylinder diameter	14 in. (355 mm)
Cylinder steel sheet thickness	5/8 in. (16 mm)
Cylinder built-in reinforcement disks	n.4 of 3/8 in. (10 mm) thickness
Cylinder material standard release	S355JR EN10210
Cylinder surface treatment	Cataphoresis and polyester powder painted
Colour	Dark grey
Head surface treatment	Anticorodal case aluminum RAL 9006
Rising time	About 6,0 sec
Rising time with E.F.O.	About 1,5 sec
Descent time	About 2,0 sec
Hydraulic drive unit power supply	230 Vac + 6% - 10%; 50/60 Hz
Power consumption	800 W
Bollard class protection	IP66
Work frequency	Heavy duty
Reflective strip standard height	2 ¼ in. (55 mm)
Impact resistance	150 kJoules
Break in resistance	656 kJoules in accordance to ASTM - M30
Walled in pit with square profile	L 23 in. x L23 in. x 59 in. (569 x D569 x H1500 mm)
Max cable length	164 ft (50 mt.)
Operating temperature	+5 F to 131 F (-15 °C / +55 °C)

The J 355 bollard guarantees free pedestrian flow, but provides security in avoiding vehicle intrusion with the following advantages:

- Limited environmental impact because of its mobile concealed element.
- Ensures greater protection of sensitive areas.
- Allows access to authorized vehicles only.
- Reduces and optimizes the use of human resources in access control activities.
- Bollard movement is signaled by built-in led’s lights.
- A full range of accessories is available.



Airports

Banks

Embassies

Marine areas

BOLLARD PIT JP355

Pit is made of steel sheet alloy, thickness e 2mm and frame to be welded in. Main frame is ductile casted iron GS400, treated with cataphoresis.

Reinforcing steel bars of the foundation (they are common steel bars and wire mesh for construction work to be sourced locally), allows to bollard and its pit, the requested class resistance to comply with the ASTM standards: M30.

