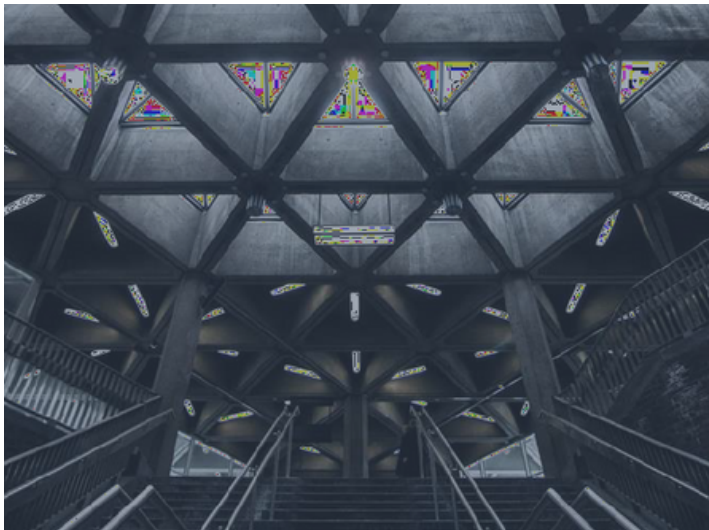


DYNOFORCE PROFILE

DynoForce design, supply and install the widest range of flood protection solutions, Parking Solutions & HVM products in the world, together with the full spectrum of associated professional services.

Our technical specialists and engineers product, custom-designed Products, including flood barriers, flood gates, flood doors, Security Planter Box, Dock Leveler, Vehicle Restraint System, Crash Rated gates and Crash rated bollards. Our wide solutions are installed throughout the world.

DynoForce operates globally, the International Head Office is in India, with a principal subsidiary in India. With global partners and distributors, DynoForce provides solutions virtually anywhere in the world.



DYNOFORCE

DF-AB-30-P1

Website: www.dynoforce.in
Email: info@dynoforce.in

PRODUCT RANGE:

- Manual / Automatic Flood
- Gates. Parking Systems. HVM
- Crash Rated Product Manual/
- Automatic Gates. Dock
- Leveler. Vehicle Restraint
- System.

K4 Crash Rated Bollard:

DF-AB-30-P1

Description

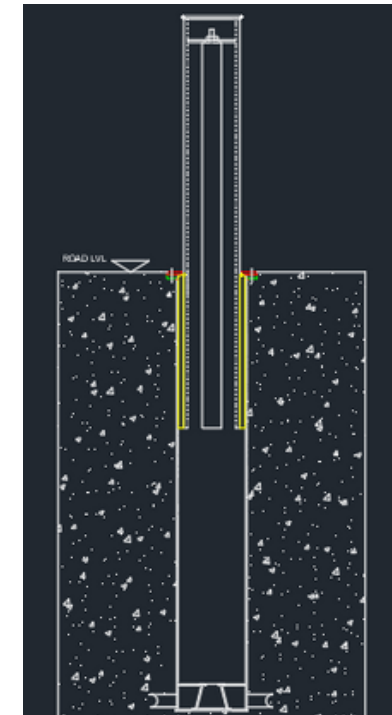
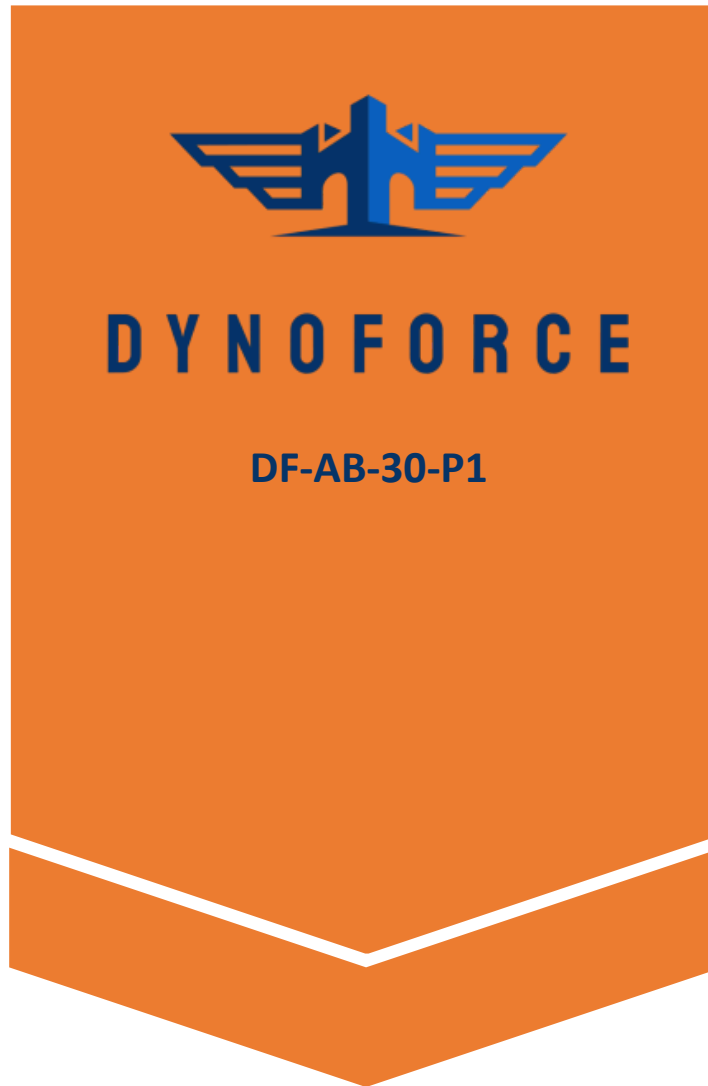
- ARAI certified as per PAS 68 & IWA standard K4, capable of stopping a 7.5-tonne vehicle at 48 km/h. Constructed using High-grade steel for the bollard pipe, for its high strength and impact resistance. Equipped with a hydraulic actuator for automatic rising and lowering, providing rapid and reliable deployment. The bollard is designed for outdoor environments, ensuring durability with hot-dip galvanization and optional RAL powder coating for extra weather protection.

Key Dimensions:

- Height: 1000 mm
- Seamless Integration: Easily connects to existing security systems for automatic access control.

Additional Features:

- Safety Mechanisms: Equipped with sensors to prevent accidental lowering or collisions with pedestrians.
- Energy Efficiency: Designed for low power consumption while maintaining high operational efficiency.
- Emergency Override: Manual override option for emergency situations where immediate bollard lowering or raising is necessary.



Uses

- Perimeter Security: Ideal for securing the perimeters of sensitive installations, including military bases, government buildings, and critical infrastructure.
- Traffic Management: Effectively controls and limits vehicle access in high-security zones, preventing unauthorized vehicular entry.
- Impact Protection: Provides a physical barrier that absorbs and mitigates the force of high-speed vehicle impacts, protecting people and property.
- Infrastructure Protection: Used to safeguard vital infrastructure, such as power plants and airports, from vehicular attacks.

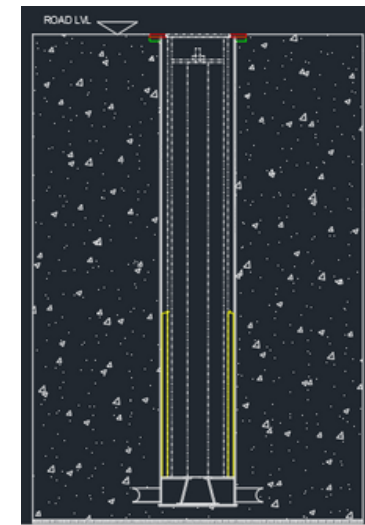
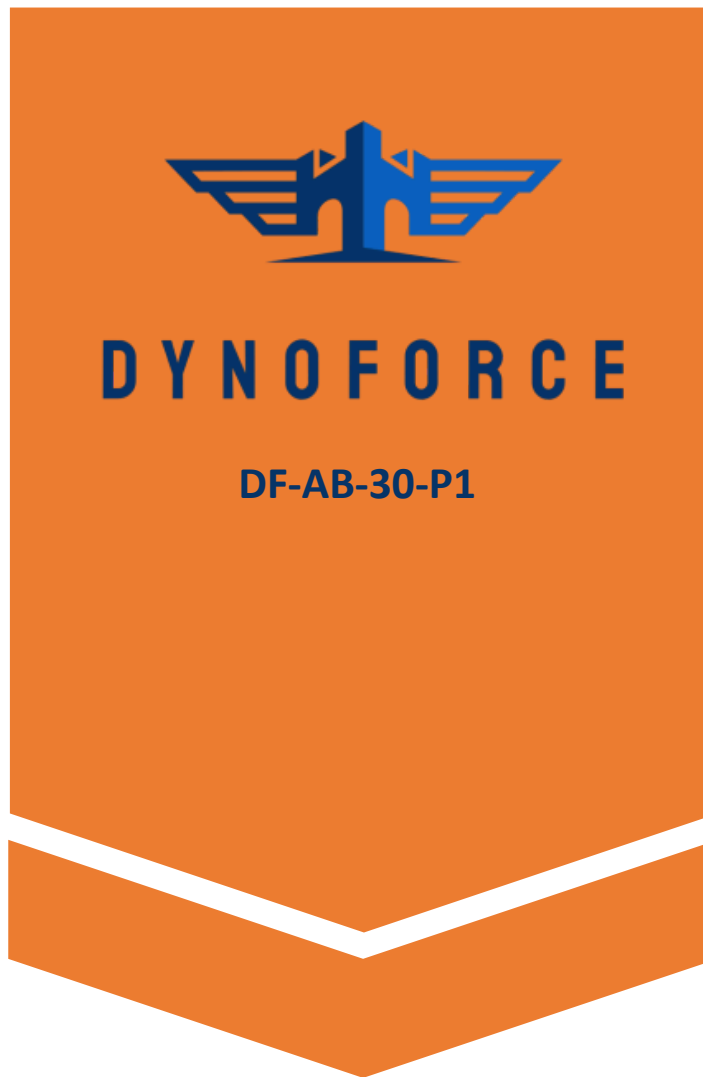
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Installation

- **Foundation Requirements:** Installed with a solid concrete foundation, ensuring stability during high-impact scenarios.
- **Array Configurations:** Can be installed as individual units or in a series (array) depending on the site's security needs.
- **Site Preparation:** Requires groundwork preparation for both electrical connections (for the hydraulic system) and foundation setting.
- **Maintenance:** Minimal maintenance required due to durable materials and anti-corrosion treatments.

Configuration

- **Hydraulic Power Unit (HPU):** Powers the automatic operation, allowing for rapid bollard movement. This unit is typically housed in a separate control cabinet.
- **Control System:** Integrated into access control systems such as gate entry, barriers, or traffic light systems.
- **Rising Speed:** 5-6 seconds for both raising and lowering, ensuring fast response to security breaches.
- **Accumulators:** Equipped with accumulators for backup power, allowing for several cycles of operation during power outages.
- **Emergency Operation:** Equipped with accumulators for Emergency operations allowing bollards to raise up in 2 to 3 seconds in case of Emergency.



Dimensions

- If dimensions are critical, please contact sales to confirm.

Benefits

- **High Impact Resistance:** Certified to K4 standards, making it capable of stopping heavy vehicles at significant speeds.
- **Automatic Hydraulic Operation:** Quick deployment and retraction with hydraulic actuators that integrate smoothly into access control systems.
- **Customization Options:** Available in various RAL colors to suit aesthetic or branding requirements.
- **Weather Resistant:** Galvanized and powder-coated to withstand harsh weather conditions and prevent rusting or wear over time.
- **Low Maintenance:** Requires minimal maintenance due to its robust design and corrosion-resistant features.