



DYNOFORCE
Protecting Assets

DF-AB-50

K12 CRASH RATED RETRACTABLE BOLLARD

PRODUCT OVERVIEW

DynoForce DF-AB-50 retractable bollard is certified to ISO 22343 and IWA 14-1 standards, delivering proven performance in hostile vehicle mitigation. Physically crash-tested by HORIBA MIRA, UK at two levels, the same retractable bollard model successfully achieved: 1. K4 rating - Stopped a 7.2-tonne vehicle at 48km/h with a P1 penetration. 2. K12 rating - Stopped a 7.2-tonne vehicle at 80km/h with a P3 penetration. In all tests, the bollard remained fully operational post-impact with minimal structural deformation, demonstrating exceptional durability and reliability. Manufactured from high-grade steel and powered by a hydraulic actuator, the system ensures fast, dependable operation. Galvanization with optional Painted finishes provides long-term protection in harsh outdoor environments.



Scan for
Test Video

APPLICATIONS

- ◆ Data Centres & Critical Infrastructure
- ◆ Military Zones & Defence Bases
- ◆ Government Installations & Embassies
- ◆ Airports, Ports & High-Security Facilities
- ◆ Financial Districts & Corporate Hqs
- ◆ High-Value Commercial & Corporate Campuses
- ◆ Nuclear Power Plants & Strategic Utilities

KEY TECHNICAL PARAMETERS



PARAMETER	SPECIFICATION
Product Name	DF-AB-50
Bollard OD	219 mm / 230mm (Sleeved)
Height Above Ground	1050 mm
Foundation Depth	1980 mm including floor finishes
Crash Rating	K12 (7.2T @ 80 km/h)
Test Standard	<ul style="list-style-type: none"> • ISO 22343-1:2023 Bollard V/7200[N2A]/80/90:12.3/25.5 • IWA 14-1:2013 Bollard V/7200[N2A]/80/90:12.3
Finishes Available	Supplied as a standard with galvanised and painted finishes for excellent corrosion protection. The product has the option of a Grade 316 Stainless-Steel aesthetic sleeve with two bands and a direct LED lighting lid for additional visibility.
Optional Extras	Emergency Fast Operation Battery Back Up Remote Fault Logging Multiple Access Control Options