

Crash-Rated Bollards & Vehicle Barriers

CAPABILITY SHEET - RISING BOLLARDS, ROAD BLOCKERS AND THE FOUNDATIONS THAT STOP VEHICLES

THE SYSTEM

WHAT	Deep- and shallow-mount rising bollards, static bollards, road blockers, tyre bursters and boom barriers for controlled entrances.
OUR ROLE	Site and services survey, foundation and pit design, bollard and sleeve, hydraulic power pack and control, safety detection, drainage, AMC.
STATUS	Quoted across crash-rated bollard and vehicle barrier requirements for airport, defence and industrial sites; no delivered barrier is claimed.

THE GOVERNING IDEA

THE FOUNDATION STOPS IT	The bollard is a lever delivering impact energy into a reinforced slab. Most under-performance is foundation under-performance, not post failure.
A RATING IS A CONFIGURATION	One post, one foundation, one spacing, one reinforcement - proven by full-scale impact test. It does not travel with a part number.
IT MUST WORK ON AN ORDINARY DAY	Impact happens almost never; thousands of raise and lower cycles do. Drainage, seals and cycle life decide whether protection exists.

THE MACHINE

FOUNDATION + PIT	Slab section, rebar arrangement, lap lengths and concrete grade treated as the primary drawings - plus drainage and a buried-services survey.
BOLLARD + IMPACT PATH	Post and sleeve carrying the overturning moment into concrete rather than into the mechanism.
HYDRAULICS + SAFETY	Normal and emergency raise times, manual override, a decided loss-of-power state, and detection that prevents trapping.

DISTINCT & HONEST

PROJECTILE VS VEHICLE	Ballistic protection defeats grams at very high speed by material science. This defeats tonnes at road speed by mass and concrete.
DETECT VS DENY	Surveillance records what happened. This decides whether it does. Same gate, opposite jobs - and a gap if either is missing.
ENGAGEMENT	Send the gate geometry, the rating required, the buried services and the daily cycles to sales@neometrixgroup.com for a compliance matrix.

DEFENCE PROGRAMMES DESK

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