

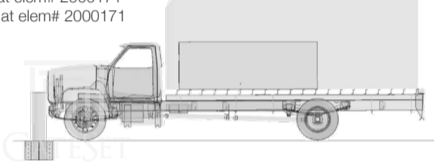
FIXED BOLLARD BARRIERS GFB9100Series

GateSet GFB9100 Series High Impact Resistant Static Bollards are designed to provide maximum perimeter security to protect sensitive areas. The product has already proven its durability and stopping power through computer aided element analysis tests, providing compliance to IWA14-1:2013 / PAS68 / ASTM M50 standards at P1 level with N3C vehicle. Manufactured from heavy gauge steel, GateSet GFB9100 Series Static Bollards provide solid protection with its design; engineered to withstand extreme forces by destroying front suspension system of the hostile vehicle and preventing intended penetration into the restricted area. With embedded foundation and concrete filled structure, GFB9100 Series Bollards are suitable for any sensitive site with city infrastructure below.

GFB9100Datasheet v.2.0

Crash Analysis Screens*

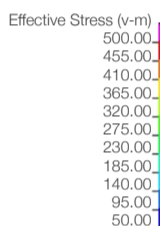
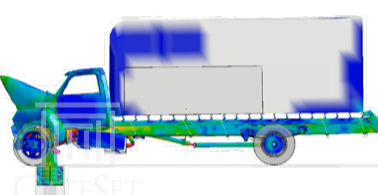
NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP, value
min=0, at elem# 2000171
max=0, at elem# 2000171



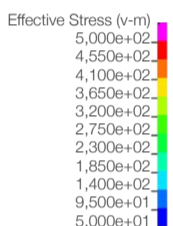
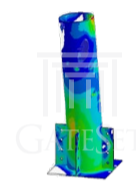
NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025) Resultant Displacement
Contours of Resultant Displacement
min=0, at node# 2302072
max=84.6961, at node# 2138776



NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP, value
min=0, at elem# 2001040
max=1866.48, at elem# 2036864



NCAC-F800 7200 kg Single Unit Truck Test (version 05_1025)
Contours of Effective Stress (v-m)
max IP, value
min=1.98962, at elem# 2124058
max=707.94, at elem# 2111416



* Detailed report of Computer Aided Finite Elements Crash Analysis is available on demand

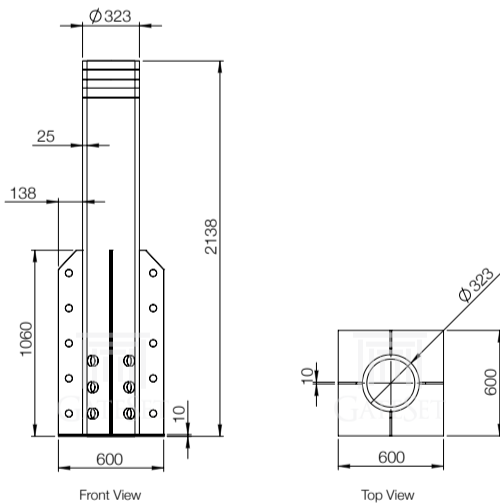
Usage Areas

- Access Control
- Military Sites
- Government Offices
- Police Headquarters
- Research Centers
- Embassies
- Airports
- Industrial Areas

GFB9100Datasheet v.2.0

Drawings and Dimensions

Single Bollard



Technical Specifications

TYPE	Static
CORE BOLLARD DIAMETER	323 mm
OBSTACLE HEIGHT	1000 mm
TOTAL BOLLARD HEIGHT	1552 mm
CORE THICKNESS	25 mm Steel Core (to be filled with C70 Concrete)
FOUNDATION DIMENSIONS	1100 mm x 1100 mm x 1150 mm (WxLxH)
TOP COVER	10 mm Thick Steel
CYLINDER MATERIAL	Hot Dipped Galvanized ST52 Steel Tube
IMPACT RESISTANCE	7,500 kg at 80 km/h (IWA14-1 / K12 / PAS68 Equivalent)
BOLLARD FINISHING	Anti-corrosive Coating with Two Component Surface Tolerant Epoxy Mastic (Jotamastic). Different RAL Colors Available on Demand
CERTIFICATION	ISO 9001:2015
WARRANTY	2 Years

Finishing Options

- Standard Anti-corrosive Coating with Two Component Surface Tolerant Epoxy Mastic (Jotamastic).
Different RAL Colors Available on Demand
- Optional 304 Grade Stainless Steel Sleeve, 2 mm thickness, Satin Finishing
- Optional 316 Grade Stainless Steel Sleeve, 2 mm thickness, Satin Finishing

