



PERIMETER SECURITY SOLUTIONS



DESIGN

CUSTOM SOLUTIONS
3D SOLID MODEL TECHNOLOGY
CUSTOM CONTROLS & INTEGRATION

ENGINEERING

MULTI-DISCIPLINE ENGINEERING STAFF
PROFESSIONAL ENGINEERS, MULTI-STATE CERTIFIED
FINITE ELEMENT ANALYSIS CAPABILITIES

MANUFACTURING

DEDICATION TO QUALITY
ON TIME DELIVERY
LARGE CAPACITY

SUPPORT

PRE & POST INSTALLATION SUPPORT
TELEPHONIC AND ONSITE SUPPORT
PARTS INVENTORY

STANDOFF

BOLLARDS



B30 STATIC DEEP / SHALLOW / REMOVABLE / MANUAL

High impact rated bollards provide ultimate protection for areas that require protection from vehicle penetration while allowing for pedestrian access. Available in a traditional deep mount foundation or a shallow mount design. Each bollard can be fitted with a decorative sleeve. The B30 is certified DOS K8 (15,000 lbs @ 40 mph).

PORTABLE BARRIERS



MODEL 910 JAX BARRIERS

Highly portable and visible, JAX barrier systems provide access control solutions for applications that require rapid deployment of barriers in an emergency. Available heights include 18", 24" and 36". The 18" & 24" are provided with storage case for a set of 3 barriers. Available in a variety of colors and reflective striping, the JAX barrier serves as an excellent physical deterrent for temporary perimeter protection.

INDUSTRY STANDARDS SUMMARY

Below are U.S. crash test standards that are widely accepted across the World. Refer to the latest standards document for additional information and latest updates.

ASTM F2656-15		
M-DESIGNATION	WEIGHT	SPEED
M50	15,000	50 MPH
M40	15,000	40 MPH
M30	15,000	30 MPH

ASTM PENETRATION LEVELS			
<3.3 ft	3.31—23 ft	23.1—98.4 ft	>98
P1	P2	P3	P4

DOS SD-STD-02.01 (APR 1985) & SD-STD-02.01 REV A (2003)		
K-DESIGNATION	WEIGHT	SPEED
K12	15,000	50 MPH
K8	15,000	40 MPH
K4	15,000	30 MPH

DOS SD-STD-02.01 (1985) PENETRATION LEVELS		
L3	L2	L1
<3 ft	3 ft—20 ft	20 ft—50 ft

DOS SD-STD-02.01 REV A (2003) PENETRATION LEVELS		
L3	Standard was updated to exclude L2 & L1 ratings	
<3 ft		

Refer to the standards listed for additional details and requirements.

International test standards include the BSI PAS:68 and IWA 14-1:2013(E)

ACCESS CONTROL

DROP ARM BARRIERS



MODEL 773 & 775

Drop arm barriers provide crash protection up to 30-ft. The Model 773 is certified M30/P1 at 24-ft. Model 775 is engineered to meet M50/P1. Both are equipped with integrated LED arms lights and stanchion mounted drive systems. Electric, hydraulic and manual systems are available.

BOLLARDS



B30 & B35 OPERABLE BOLLARDS

Hydraulic bollard system, certified K8 (15,000 lbs at 40 MPH). Capable of deploying in approximately 2 seconds, the B30 Series can be integrated into existing access control systems and is available with custom painted finishes or supplied with decorative stainless steel sleeves. Ideal for applications where pedestrian access is required and matches fixed bollard perimeters.

GATES



MODEL 400 (K4) / 450 (K12) CRASH GATES

Cantilevered, crash certified gates can cover spans up to 30-ft and can be fitted with decorative infill / picketing to match perimeter fencing. Hydraulic or electric drive system options. Certified to US Department of State K4 (15,000 lbs @ 30 mph) and K12 (15,000 lbs @ 50 mph) standards.



SG SLIDE GATE & LXL GATE OPERATOR

Cantilevered non-crash rated chain-link gate and LXL Slide Gate Operator are ideal solutions for controlling entry/exit of both vehicles and personnel. Lengths up to 40 ft are available.

WEDGE BARRIERS



MODEL 828

Shallow mount wedge barrier, certified M50/P1 (15,000 lbs at 50 MPH, <1-meter penetration). Hydraulic, electric, and manual drive systems. Suitable for extreme cycle rates and harsh environmental conditions. Lengths up to 16-ft are available.



MODEL 890

Crash certified (4,000 lbs at 30 mph), surface mounted, self-contained drive system bolts to existing concrete slab. Ideal for parking garages, rental car facilities, and other locations that require high cycle rates, crash protection and limited foundations. Lengths up to 14-ft are available and can be supplied with an integrated gate arm.

PORTABLE BARRIERS



MODEL 850 & 855

Models 850 and 855 are portable crash barriers which can be rapidly deployed for temporary security applications. Designed to stop a 15,000 lbs vehicle at 30 MPH, both models can be moved into position by a vehicle or positioned by a crane. The barrier controls can be integrated into an existing access control systems and can operate on AC or DC power.

FOR ADDITIONAL INFORMATION, PLEASE CONTACT BBRSS

800-367-0387

WWW.BBRSS.COM

FINAL DENIAL

WEDGE BARRIERS



MODEL 828

Shallow mount finger wedge barrier, certified M50/P1 (15,000 lbs at 50 MPH, <1-m penetration). Hydraulic, electric, & manual drives. Extreme cycle rate capabilities & can withstand harsh environmental conditions. Lengths up to 16-ft are available. Deployment speeds approx. 1-sec.



MODEL 820

Shallow mount plate barrier, certified DOS K12 (15,000 lbs at 50 MPH) with zero penetration. Utilizes a hydraulic drive systems with advanced controls. Deploys in approximately 1.5-seconds and can be fitted with a protective bellows to help reduce debris entry into the barrier frame.

BOLLARDS



B30 & B35 OPERABLE BOLLARDS

Hydraulic bollard system, certified K8 (15,000 lbs at 40 MPH). Capable of deploying in approximately 2 seconds, the B30 Series can be integrated into existing access control systems and is available with custom painted finishes or supplied with decorative stainless steel sleeves.

PROJECT CONSIDERATIONS

The below items are provided as guidance for the selection and implementation of vehicle barrier systems. Since no list is inclusive and no project is the same, it is recommended that you consult with a security professional on the proper selection, installation and operation of vehicle barrier systems.

DESIGN	EXECUTION
<u>REQUIREMENTS/STANDARDS</u>	<u>FUNDING</u>
End User Requirements, Industry Regulations and Best Practices, Application Requirements	Quotes from A&E, Equipment Suppliers, Installation Contractor, Maintenance Provider
<u>ENVIRONMENTAL</u>	<u>CONTRACTING</u>
Soil Conditions, Heat, Cold, Frost Line, Snow & Ice Accumulation, Wind, Sand, Debris, Rain, Drainage	Contracting Vehicles (GSA, 8A, MATOC, etc.)
<u>POWER</u>	<u>INSTALLATION</u>
Availability (Phase & Voltage), Distance, Backup Power Supply	Site Survey, Submittals, Schedule, Delivery, Traffic Coordination
<u>EQUIPMENT LAYOUT</u>	<u>MANUFACTURER SUPPORT</u>
Underground Utilities & Obstructions, User Response & Reaction Requirements, Communication & Controls Locations, Safety & Warning Devices, Integration	Installation Oversight, Commissioning, Testing, Training, Warranty
<u>OPERATION</u>	<u>TRAINING</u>
Sequence of Operations, Emergency Procedures, Operator Training, Test Procedures	Operator Training, Service & Maintenance Training
<u>SERVICE & MAINTENANCE</u>	<u>USAGE</u>
Plan for Preventative Maintenance, Spare Parts on Hand, Emergency Repair Plan, Local Support	Daily Operation/Test, Maintenance Plan, Warranty Registration & Support

YOUR **BARRIERS** ARE OUR **BUSINESS**, YOUR **SAFETY** IS OUR **PRIORITY**