BLACK SECURITY PRODUCTS

AVBD 1000 SERIES
PRODUCT DATA · 2026

SECUREMESH™

HIGH-SECURITY WELDED WIRE MESH SYSTEM

358 anti-climb, anti-cut mesh engineered for critical infrastructure, correctional and federal perimeters — six configurations, one proven platform, with optional integrated M30 / M50 anti-ram protection.

20-YEAR WARRANTY | ASTM F2781 · F1233 | UL 752 · NIJ 0108.01 | MADE IN THE USA

THE PERIMETER, RECONSIDERED.

Steel palisade deters. Welded wire mesh **defeats** — and does it while giving cameras and guards a near-transparent line of sight the solid pale can't.

SecureMesh is built on 358 mesh: a 3″ × 0.5″ aperture so tight it denies finger- and toe-holds, welded at every intersection so it resists bolt-cutters and grinders far better than bolted or chain-link systems. The result is a barrier that is genuinely hard to climb and hard to cut — the two things that actually matter at the fence line.

And unlike the diversified fence giants, manufacturing high-security perimeter is **all BSP does**. That focus means dedicated capacity, shorter lead times, and pricing that tracks real steel and process cost — not thousand-SKU catalog overhead.

THE 358 STANDARD

3″ × 0.5″ aperture, 8ga wire. Available 6ga–10.5ga — heavier for higher threat, lighter for economy. 8ga is our standard "358" configuration.

20
YEAR DURABILITY & WEATHERING WARRANTY

20′
MAXIMUM SYSTEM HEIGHT

180
MPH WIND LOAD ENGINEERED (HVHZ)

6
CONFIGURATIONS, ONE PLATFORM

CERTIFIED & DEPLOYED FOR

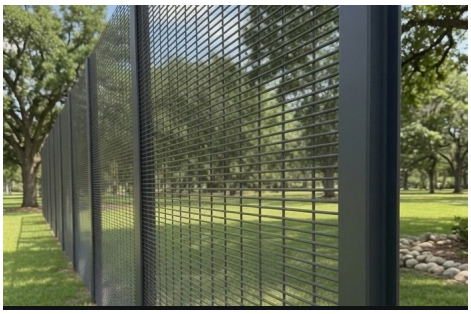
- Department of Defense installations
- Federal & civilian agency facilities
- Airports and transportation hubs
- Electric utilities & substations
- Data centers & network facilities
- Correctional & secure institutions
- Oil, gas and petrochemical sites
- International borders
- Critical manufacturing campuses

ASTM F2781 | ASTM F1233 CLASS IV | UL 752 | NIJ 0108.01

Ratings dependent on system configuration. See individual variant pages and the specification section for details.

ONE PLATFORM. SIX CONFIGURATIONS.

Every SecureMesh system shares the same welded-mesh panel, H-post and concealed locking platform. What changes is how it's configured for the threat — from a standard commercial run to a crash-rated federal perimeter.



AVBD 1001

SECUREMESH

BASE SYSTEM

358 anti-climb mesh with multiple rail and topper options. The platform every other configuration is built on.

AVBD 1002

SECUREMESH INTEGRATED

+ CRASH-RATED PVB

Integrated with BSP's DoD-listed ASTM F2656 passive cable barrier. Stops the climber and the 15,000-lb truck.

AVBD 1003

SECUREMESH DELAY

CERTIFIED CUT-DELAY

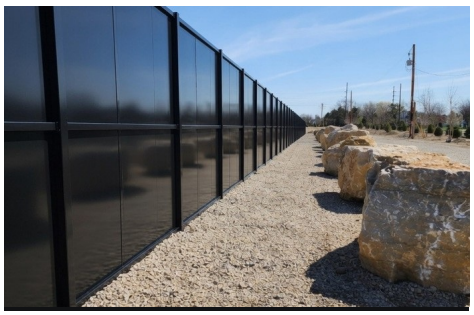
Independently ASTM cut-delay tested to buy the minutes a response force needs to arrive.

AVBD 1006

SECUREMESH CORRECTIONAL

DETENTION-GRADE

Taller panels, heavier posts, razor-wire ready. Purpose-built for prisons and secure institutions.



AVBD 1007

SECUREMESH SHUTTER

VISUAL SCREENING

Solid infill blocks sightlines where privacy is part of the security requirement.

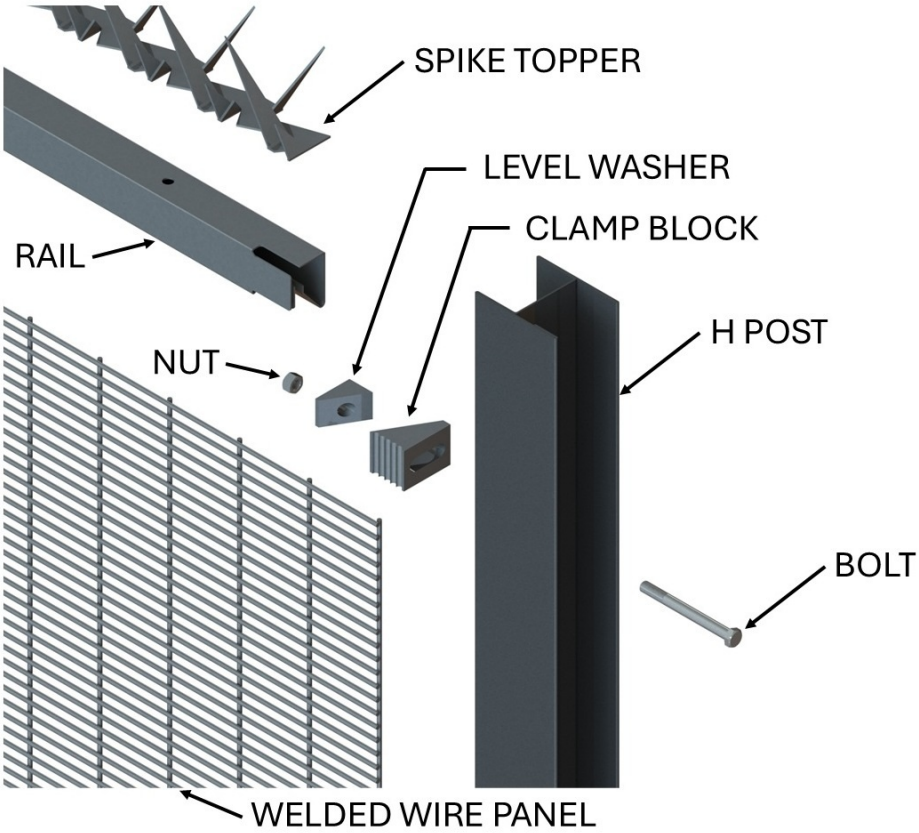
AVBD 1010

SECUREMESH TEMPORARY

RAPID DEPLOY

The SecureMesh platform as a temporary fence and gate system for sites, events and staging.

SIMPLE DESIGN. ONE HARDENED LINE.



1 Welded Wire Panel

358 mesh, 3″ × 0.5″ aperture, 6–10.5ga (8ga standard). Welded at every intersection.

2 H Post

Rolled H-section at 97½″ O.C. Embedded — no baseplate to defeat.

3 Clamp Block

Formed block captures the panel against the post face — the concealed heart of the fixture.

4 Level Washer

Seats the clamp and takes up tolerance for a flush, even panel line.

5 Bolt & Nut

5/16″ × 3″ mushroom-head security bolt with nut and washer. Internal only.

6 Rail

Optional horizontal rail adds rigidity and span — the SecureMesh Alpha configuration.

7 Spike Topper

One of five toppers — spike, flat spike, barbed, razor wire or razor mesh.

TAMPER-PROOF BY DESIGN

No exposed fasteners

The clamp block, washer, bolt and nut sit inside the post line. There is nothing on the unsecure side for a tool to grab — the panel cannot be unbolted from outside.

Welded, not woven

Every wire intersection is welded, so the mesh resists bolt-cutters and grinders far better than chain-link or bolted-panel systems.

Modular & repairable

Panels step cleanly down a grade and install without field welding. A damaged panel unclamps and swaps from the friendly side — no cutting out the line.

GALVANIZED FIRST. THEN ARMORED.

SecureMesh is hot-dip galvanized, then powder coated — a true duplex finish. The zinc protects sacrificially even where the coating is later scratched; the powder coat seals the zinc and carries the color.

Panels run an 11-stage pretreatment and coating line. Cleaning, rinse and phosphate stages strip the salts and conductivity that make coatings fail from underneath; a base coat is cured before the top coat is applied electrostatically and cured again.

The result is a finish built to hold its own through the full **20-year** durability and weathering warranty — in coastal, industrial and high-UV environments alike.

FINISH AT A GLANCE	
Base	**Hot-dip galvanized** steel
Top	**Polyester powder coat**, BS EN 13438
Pretreatment	**11-stage** line
Standard color	**Black** RAL 9005

Coating conforms to ASTM A123 (galvanizing) and BS EN 13438 (powder). Salt-spray hours per test report.

STANDARD COLORS

Black
RAL 9005

Desert Tan
RAL 1001

Green
RAL 6002

Bronze
RAL 8016

White
RAL 9010

Custom colors matched to any customer-supplied RAL reference. On-screen swatches are representative — request a physical sample for color-critical work.

WIND-LOAD ENGINEERED

Every panel and post is engineered to **ASCE 7** wind load, up to **180 mph** for High-Velocity Hurricane Zones. Panels install without site modification, stepping cleanly down grade changes — the fence adapts to the site, not the other way around.

180 MPH

ASCE 7 WIND LOAD, HVHZ ENGINEERED

STANDARD & DELAY.

AVBD 1001

SECUREMESH

BASE SYSTEM

The core 358 anti-climb platform. Near-transparent for cameras and guards, finger-proof to a climber, welded solid against cutters. Configured with two or more rails and a choice of toppers — barbed wire, razor wire, razor mesh, top spike or flat spike — to match the threat.

Best for: commercial, industrial, utility and data-center perimeters where visibility and cost efficiency matter.

AVBD 1003

SECUREMESH DELAY

CERTIFIED CUT-DELAY

When the metric is **time-to-breach**, Delay is the answer. This configuration is independently ASTM cut-delay tested, using heavier gauge and a tightened build to resist hand and power tools long enough for a response force to arrive. Security isn't just about stopping entry — it's about buying minutes.

Best for: critical infrastructure and high-consequence sites operating to a defined response-time standard.

TOPPER OPTIONS — ALL CONFIGURATIONS

Barbed Wire	Razor Wire	Razor Mesh	Top Spike	Flat Spike
General deterrent	Aggressive deterrent	Continuous coverage	Anti-perch / anti-climb	Low-profile deterrent

Rails make it Alpha. Adding horizontal rails to the standard SecureMesh panel is the **SecureMesh Alpha** configuration — extra rigidity and span for taller runs, same platform and hardware.

CORRECTIONAL & SHUTTER.

AVBD 1006

SECUREMESH CORRECTIONAL

DETENTION-GRADE

Purpose-built for prisons and secure institutions: taller panels, heavier posts and a razor-wire-ready top detail, engineered to the forced-entry and no-climb demands of detention perimeters. Keeps sightlines open for tower and camera observation while denying any hand or foothold.

Best for: correctional facilities, secure hospitals and institutional perimeters.

AVBD 1007

SECUREMESH SHUTTER

VISUAL SCREENING

Where privacy is part of the security requirement, Shutter adds solid infill to the mesh platform — blocking sightlines into the protected area while keeping the hardened anti-climb, anti-cut structure behind it. Hide the asset, keep the barrier.

Best for: substations, utility yards, staging areas and any site where what's inside shouldn't be seen from outside.

CORRECTIONAL — WHY IT'S DIFFERENT

Taller build (to 20′), heavier post section for the load and the threat, and a razor-topped detail rated for the aggressive forced-entry profile a detention perimeter has to hold.

SHUTTER — WHY IT'S DIFFERENT

Solid screening panels integrate into the same H-post line, so you get visual privacy without giving up the welded anti-climb structure or adding a separate screen wall.

A FENCE THAT ALSO STOPS THE TRUCK.

SecureMesh Integrated — welded mesh line with BSP passive cable barrier and bollard anchors.

Cable barrier runs behind the mesh, secured at height by clamp brackets — the fence provides the climb and cut resistance, the cable absorbs the vehicle impact.

SecureMesh Integrated combines the anti-climb mesh line with BSP's crash-rated passive cable barrier — one system that stops the climber **and** the 15,000-lb truck, from one manufacturer, under one warranty.

The barrier is crash-tested to **ASTM F2656** at both the **M30 and M50** levels, each at **P1 and P2** penetration ratings, by accredited crash labs — and every one is listed by the U.S. Army Corps of Engineers Protective Design Center on the **DoD Anti-Ram Vehicle Barrier List**, the same public list a federal specifier checks when qualifying a barrier. Tested configurations span up to **200 ft** between anchors, sharply reducing foundations on long runs.

CRASH RATING	
Test standard	ASTM F2656-23
Ratings	M30 & M50
Penetration	P1 & P2 (both levels)
DoD status	All listed — Anti-Ram Vehicle Barrier List
Max tested span	200 ft anchor-to-anchor

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS, OMAHA DISTRICT
PROTECTIVE DESIGN CENTER
OMAHA, NE 68102-4901

January 31, 2023

Protective Design Center

Black Security Products
1 Security 2 Brand Cable Fence
Kalispell, Montana 59901

Dear Black Security Products:

The Protective Design Center received the submitted test report for the M50 P2 Black Security 2 Strand Cable Fence, 930' Span barrier from Calspan Corporation (ASTM F2656-20, test number BR9025, test date October 23, 2020, report date October 3, 2022) and determined it to be in accordance with the requirements of ASTM F2656 – Standard Test Method for Vehicle Crash Testing of Perimeter Barriers. The Protective Design Center will add the barrier to the Department of Defense Anti-Ram Vehicle Barrier List in February 2023.

The acceptance of the submitted test report only indicates that the test report met the criteria specified in ASTM F2656. Acceptance is neither an endorsement of the barrier nor a guarantee

VERIFIED, NOT SELF-DECLARED

The USACE Protective Design Center reviewed BSP's independent ASTM F2656 crash-test reports and added the cable barrier line to the DoD Anti-Ram Vehicle Barrier List at both M30 and M50, P1 and P2 — verifiable by any customer, on record with the government, and current to the F2656-23 edition. The same barrier line integrates behind SecurePale™ palisade as well.

HARDENED SECURITY, REDEPLOYABLE.

Most temporary fencing trades security for portability. SecureMesh Temporary doesn't — it puts the same 358 anti-climb panel on a foundation-free base, so a site gets real high-security perimeter without pouring concrete.

It sets the standard for rapid-deploy protection at data centers, critical infrastructure and government sites: no exposed fasteners, a **20-year** warranty, more configuration options and an easier, faster install than imported alternatives — with local Houston stock and **72-hour replacement** capability for key accounts.

Freestanding SecureMesh on surface-mounted base — full anti-climb mesh, no foundations

TWO FOUNDATION-FREE BASES

Base A — Earth Anchor / Sandbag

The standard. Higher overturn resistance with proper anchoring, lighter for lower shipping cost, quick to deploy, and a no-ground-penetration sandbag option that works on asphalt and indoors. Best for rapid installs and tight or cost-sensitive sites.

Base B — Weighted Ballast Box

Premium stability. Maximum overturn resistance, flexible fill (concrete, gravel, sand or water), an obstacle-free exterior for security patrols and no ground penetration. Best for high-wind sites, data centers and long-term temporary use.

CONFIGURE TO THE SITE

Mesh density

2″×6″ economical · 1″×3″ increased · ½″×3″ high-security (std). 6–10.5ga.

Toppers

None · support rail · flat spike · crown spike · razor mesh diagonal · razor mesh.

Future-proof

Optional 11′ H-posts convert the line to permanent in-ground later — no rebuy.

HEIGHTS 6′ TO 11′

Galvanized then powder-coated black, modular for grade changes, proudly made in Houston. Foundation-free, asphalt- and indoor-capable — the temporary line that's an actual barrier, not a formality.

No concrete
No exposed fasteners
72-hr replacement

DEPLOYED WORLDWIDE

WHERE IT STANDS ON GUARD.

Electric substation perimeter — SecureMesh with danger signage and razor top.

Data-center perimeter — near-transparent mesh for camera and guard observation.

INDUSTRIES & FACILITIES SERVED

- Military installations & bases
- Federal & agency facilities
- Correctional & detention centers
- Airports & transportation hubs
- Data centers & network facilities
- Electric utilities & substations
- Oil, gas & petrochemical sites
- LNG & energy infrastructure
- Water & wastewater treatment
- Industrial & manufacturing campuses
- Ports, rail & logistics yards
- International borders

TRUSTED BY

BSP perimeter systems protect facilities for the U.S. Army Corps of Engineers, NAVFAC, the U.S. Air Force, and federal agencies, alongside commercial leaders including Google, Lockheed Martin, Honeywell, ExxonMobil and AWS — and international operators from Saudi Aramco and ADNOC to the Mumbai Metro and Etihad Rail.

Customer and agency references reflect deployments of BSP perimeter security systems. Named references available under NDA for qualified projects.

SITE ASSESSMENT

BSP provides free product and site assessments. Our engineering team specifies the configuration, gauge, height and topper to the actual threat — then backs it with stamped drawings and project-specific wind-load calculations.

sales@blacksp.com
(512) 926-0800
blacksp.com/contact

SPECIFICATIONS & STANDARDS.

PANEL & POST	
Mesh aperture	3″ × 0.5″
Wire gauge	6–10.5ga; 8ga std ("358")
Construction	Welded every intersection
Panel option	Pressed V-bend
Post section	H-profile
Post spacing	97½″ O.C.
Panel width	96″ nominal (8′)
System height	6′ to 20′
Pier / embedment	42″ min / 40″ typ
Fastener	5/16″ × 3″ mushroom-head
Exposed hardware	None — concealed
Finish	Hot-dip galv + polyester powder
Standards	ASTM A123 · BS EN 13438
Wind load	ASCE 7, to 180 mph (HVHZ)
Warranty	20-year durability
Origin	Made in the USA

RATINGS (by configuration)

ASTM F2781	Security fence — L/M/A threat
ASTM F1233	Class IV forced entry
UL 752	Bullet-resisting
NIJ 0108.01	Ballistic resistance
ASTM F2656	M30 & M50, P1/P2, DoD-listed (Integrated)

SECTION 32 31 19
HIGH-SECURITY WELDED WIRE MESH FENCING

2.01 MANUFACTURER
SecureMesh™, AVBD 1000 Series, by Black Security Products, LLC, Houston, TX. Configuration: [1001 Standard] [1002 Integrated PVB] [1003 Delay] [1006 Correctional] [1007 Shutter] [1010 Temporary].

2.02 MATERIALS
A. Mesh panels welded wire, 3″×0.5″ aperture, [8]ga (6–10.5ga available), welded every intersection.
B. H-profile posts at 97½″ O.C.; 96″ nominal panels.
C. Concealed clamp block and 5/16″×3″ mushroom-head security bolt. No exposed fasteners on the unsecure side. No field welding.

2.03 PERFORMANCE
A. Height [__] ft, to 20′ max. Engineered to ASCE 7, to 180 mph (HVHZ).
B. Certify to [ASTM F2781 __] [F1233 Class IV] [UL 752] [NIJ 0108.01] as indicated.

2.04 FINISH
Hot-dip galvanized (ASTM A123), polyester powder (BS EN 13438), 11-stage pretreatment. Color [RAL 9005] [specify].

2.05 WARRANTY
20 years, durability & weathering, all structural components.

CONFIGURATIONS

1001	SecureMesh
1002	Integrated PVB
1003	Delay
1006	Correctional
1007	Shutter
1010	Temporary

PROCUREMENT

CAGE	7MT82
NAICS	339999

CAD, BIM & stamped drawings with project wind-load calculations — blacksp.com.

BLACK SECURITY PRODUCTS

ANTICIPATE.
HARDEN. PROTECT.

Black Security Products designs and manufactures high-security perimeter systems for military installations, government facilities, data centers, utilities, correctional institutions and critical infrastructure worldwide — with an emphasis on anti-terrorism and force protection.

SECUREMESH™ CONFIGURATIONS

CORE

SecureMesh — AVBD 1001

SecureMesh Delay — AVBD 1003

SecureMesh Shutter — AVBD 1007

HARDENED

SecureMesh Correctional — AVBD 1006

SecureMesh Integrated PVB — AVBD 1002

M30 & M50 · P1/P2 · DoD-listed

DEPLOYABLE

SecureMesh Temporary — AVBD 1010

Fence & gate systems

HEADQUARTERS

6525 Cunningham Rd, Building E
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sales@blacksp.com
blacksp.com

PROCUREMENT

CAGE 7MT82
DUNS 83-888-8670
NAICS 339999
Made in the USA

REQUEST A FREE SITE ASSESSMENT

Talk to a BSP perimeter specialist about your project.

blacksp.com/contact

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