



Bullistic Barriers LLC provides Bullet Resistant products that provide aesthetically pleasing ballistic protection that eliminates ricochet, is non-combustible, and is practically unscalable.

For additional information, contact:

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BULLET RESISTANT FENCE

MasterFormat 2020:

Section 32 31 00 Fences and Gates

Notes to Specifier:

1. Where several alternative parameters or specifications exist, or where, the specifier has the option of inserting text, such choices are presented in **<bold text>**.
2. Explanatory notes and comments are presented in *italicized colored* text.

CLASS 1 BULLET RESISTANT FENCE

PART 1 GENERAL

1.01 SUMMARY

- A Section includes an aluminum fence, furnished with all components, and designed and tested to provide bullet resistance per UL-752, Standard for Bullet-Resisting Equipment, levels 1, 2, 3, and 6.
- B Related Requirements
 - 1. Division 03 Concrete
 - a. 03 00 00 Concrete
 - 2. Division 08 Openings
 - a. 08 34 56 Security Gates
 - 3. Division 28 Electronic Safety and Security
 - a. 28 10 00 Access Control
 - 4. Division 31 Earthwork
 - a. 31 60 00 Special Foundations and Load Bearing Elements

1.02 REFERENCES

- A Reference Standards
 - 1. Underwriters' Laboratories (UL)
 - a. UL 752 - Standard for Bullet-Resisting Equipment
 - 1) Level 1: 9 mm, 124 grain, full metal copper jacket with lead core; 1175 -1293 ft/sec;
3 shots
 - 2) Level 2: .357 Magnum, 158 grain, jacketed lead soft point; 1250 - 1375 ft/sec;
3 shots
 - 3) Level 3: .357 Magnum, 240 grain, lead semi-wadcutter gas checked; 1350 - 1485 ft/sec;
3 shots
 - 4) Level 6: 9 mm, 124 grain, full metal copper jacket with lead core; 0400 - 1540 ft/sec;
5 shots
 - 2. National Institute of Justice (NIJ)
 - a. NIJ Standard 0108.01 Ballistic Resistant Protective Materials, Armor Types I and II
 - 3. ASTM International
 - a. ASTM B117 - Practice for Operating Salt-Spray (Fog) Apparatus
 - b. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes
 - c. ASTM D822 - Practice for Conducting Tests on Paint and Related Coatings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus

1.03 SUBMITTALS

- A Product Data
 - 1. Manufacturer's printed or electronic data sheets
 - 2. Manufacturer's installation and operation manuals
 - 3. Independent testing agency certification of product performance satisfactory to Owner's representative.

1.04 QUALIFICATIONS

- A Manufacturer's products shall be manufactured in the United States of America.

END OF SECTION

PART 2 PRODUCTS

2.01 EQUIPMENT

- A Manufacturer: Bullistic Barriers, LLC
1406 West Kings Highway
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Phone: +1 717 869-2775
Web: www.bullisticbarriers.com
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- B Models: Class 1 Fence
- C Alternates: None

2.02 DESCRIPTION

- A The Class 1 bullet-resistant fence ("fence") shall be an aluminum fence skeleton, furnished with all components required to provide a complete structure including panels, panel tops, posts, post caps, and gates.

2.03 MATERIAL

- A Material for the fence structure, to include posts, panel skins and panel tops, shall be aluminum conforming to ASTM B221.
 - 1. Aluminum extrusions shall conform to Alloy and Temper Designation 6063 T5 or 6061 T-6.
- B The engineered panel shall be processed through a 7 step, blasting, multi-stage pretreatment, prime and powder-coat topcoat. Topcoat shall be Tiger Drylac AAMA 2604 Super Durable Series 38 Argento 314 38/90018.
- C Aluminum castings shall be used for post caps.
In a coastal environment, specify Alloy 535 for maximum corrosion resistance.

2.04 CONSTRUCTION

- A Posts to accept the fence panels shall be 5" square H-posts.
- B Post spacing shall be 10 feet on-center unless otherwise noted in drawings.
10 foot is typical spacing value for a 119 inch wide panel with a 2 foot louver top. Consult factory for additional height options and spacing requirements.

C The fence panel shall be 1 inch nominal thickness in a tongue and groove design.

2.05 PERFORMANCE

A The fence shall meet the following ballistic requirements:

- a. UL-752 Levels 1, 2, 3, and 6
- b. NIJ-I and NIJ-II, 2 levels of ammo, 5 shots
- c. 12 GA. shotgun, 2 ¾ slug and buck shot

2.06 AESTHETIC

1. The Manufacturer shall offer as a minimum the following appearance options:

- a. Cascade
- b. Classic
- c. Contemporary
- d. Louvre

d1. Louvre can be placed at a 45-degree angle for wind to pass through but engineered to provide Class 1 Bullet Resistance on a horizontal plane.

- e. Villanova

END OF SECTION

PART 3 EXECUTION

3.01 INSTALLERS

A Installers will be pre-accredited by Bullistic Barriers LLC.

B Contractor personnel shall comply with all applicable state and local licensing requirements.

3.02 PRODUCT HANDLING AND STORAGE

A Upon receipt at the job site, all materials shall be verified to ensure that no damage occurred during shipping or handling. Materials shall be stored in such a way that will ensure protection from damage, weather, vandalism and theft.

3.03 PREPARATION

A All new installation shall be laid out by the contractor in accordance with the construction plans.

3.04 INSTALLATION

A Contractor shall follow Manufacturers recommended installation guidelines.

B Fence Installation

- 1. Post holes shall be dug, and posts shall be installed in accordance with engineered specifications. Details include rebar location/ diameter/ number, hole depth/ width, and properly concreted.
- 2. Drilling holes, cutting open, or otherwise tampering with the ballistic integrity of the manufactured Class 1 panel shall be prohibited without the clear written consent of the Manufacturer.

C Gate Installation

- 1. Gate posts shall be spaced according to the manufacturers' gate drawings. Manufacturer's provided hinges and hardware shall be installed in conformance with intended application.

END OF SECTION