The following blast standards pertain to windows, doors, walls, vehicle barriers and other miscellaneous items. This document provides a broad overview, but may not include all related standards. If you have any questions, or would like to discuss any physical security needs, please email Holly@StoneSecurityEngineering.com.

Window Standards

Organization	Document Title	Brief Description
AAMA	510-06	Voluntary Guide Specification For Blast Hazard Mitigation For Fenestration Systems
ASTM	C1172-09e1	Standard Specification For Laminated Architectural Flat Glass
ASTM	C1349-10	Standard Specification For Architectural Flat Glass Clad Polycarbonate
ASTM	C1564-04	Standard Guide For Use Of Silicone Sealants For Protective Glazing Systems
ASTM	E1300	General Buildings: Standard evaluation of the static capacity of laminated glass. Required by DoD to determine the performance of glass using a static approach.
ASTM	F1233-08	Standard Test Method for Security Glazing Materials and Systems
ASTM	F1642-12	Standard Test Method For Glazing And Glazing Systems Subject To Airblast Loadings
ASTM	F2248-12	Standard Practice For Specifying An Equivalent 3-Second Duration Design Loading For Blast Resistant Glazing Fabricated With Laminated Glass
ASTM	F2912-11	Standard Specification For Glazing And Glazing Systems Subject To Airblast Loading
BSI	6375-3:2009+A1:2013	Performance Of Windows And Doors. Classification For Additional Performance Characteristics And Guidance On Selection And Specification
BSI	EN 13541:2012	Glass In Building. Security Glazing. Testing And Classification Of Resistance Against Explosion Pressure
ISO	16933:2007	Glass in building -- Explosion-resistant security glazing -- Test and classification for arena air-blast loading
ISO	ISO 16934:2007	Glass in building – Explosion-resistant security glazing – Test and classification by shock-tube loading
UFC	4-010-01	The Unified Facilities Criteria (UFC) system is prescribed by MIL-STD 3007 and provides planning, design, construction, sustainment, restoration, and modernization criteria, and applies to the Military Departments, the Defense Agencies, and the DoD Field Activities in accordance with USD (AT&L) Memorandum dated 29 May 2002.
UFGS	08 56 53	Blast Resistant Tempered Glass Windows

Door Standards

Organization	Document Title	Brief Description
ASTM	F2247-11	Standard Test Method For Metal Doors Used In Blast Resistant Applications (Equivalent Static Load Method)
ASTM	F2927 - 12	Standard Test Method For Door Systems Subject To Airblast Loadings
UFC	4-010-01	The Unified Facilities Criteria (UFC) system is prescribed by MIL-STD 3007 and provides planning, design, construction, sustainment, restoration, and modernization criteria, and applies to the Military Departments, the Defense Agencies, and the DoD Field Activities in accordance with USD (AT&L) Memorandum dated 29 May 2002
UFGS	08 39 53	Blast Resistant Doors (Oval Arch Magazines)
UFGS	08 39 54	Blast Resistant Doors

Vehicle Barrier

Organization	Document Title	Brief Description
ASTM	ASTM-2656-07	Standard Test Method for Vehicle Crash Testing of Perimeter Barriers
UFC	UFC 4-022-02	Selection and Application of Vehicle Barriers
DoS	SD-STD-02.01	Vehicle Crash Testing of Perimeter Barriers and Gates
PAS	PAS 68:2013	Impact test specifications for vehicle security barriers
PAS	PAS 69:2013	Guidance for the selection, installation and use of vehicle security barrier systems

Testing

Organization	Document Title	Brief Description
ASTM	E2639 - 12	Standard Test Method for Blast Resistance of Trash Receptacles
ASTM	F1233-08	Standard Test Method for Security Glazing Materials and Systems
ASTM	F1642	Standard Test Method For Glazing And Glazing Systems Subject To Airblast Loadings
ASTM	F1642-12	Standard Test Method For Glazing And Glazing Systems Subject To Airblast Loadings

Organization	Document Title	Brief Description
BSI	EN 13123-1:2001	Windows, Doors And Shutters. Explosion Resistance. Requirements And Classification For Shock Tube
BSI	EN 13123-2:2004	Windows, Doors, And Shutters. Explosion Resistance. Requirements And Classification. Range Test
BSI	EN 13124-1:2001	Windows, Doors And Shutters. Explosion Resistance. Test Method for Shock Tube.
BSI	EN 13124-2:2004	Windows, Doors And Shutters. Explosion Resistance. Test Method-Range Test
GSA	GSA-TS01-2003	Standard Test Method for Glazing and Window Systems Subject to Dynamic Overpressure Loadings

Trash Receptacles

Organization	Document Title	Brief Description
BSI	E2639 - 12	Standard Test Method for Blast Resistance of Trash Receptacles
BSI	E2740-12E1	Standard Specification for Trash Receptacles Subjected to Blast Resistant Testing
BSI	E2831/ E2831M-11	Standard Guide for Deployment of Blast Resistant Trash Receptacles in Crowded Places

Design Guidelines

Organization	Document Title	Brief Description
AISC	Design Guide 26	*Design of Blast Resistant Structures* provides guidance for the design of blast resistant structures and progressive collapse mitigation.
ASCE	59-11	*Blast Protection of Buildings* provides minimum requirements for planning, design, construction, and assessment of new and existing buildings subject to the effects of accidental or malicious explosions.
PDC	TR 10-02	Blast Resistant Design Methodology for Window Systems Designed Statically and Dynamically
PDC	TR 06-08	Single-Degree-of-Freedom Structural Response Limits for Antiterrorism Design
UFC	3-340-02	Structures to Resist the Effects of Accidental Explosions
UFC	4-010-01	The Unified Facilities Criteria (UFC) system is prescribed by MIL-STD 3007 and provides planning, design, construction, sustainment, restoration, and modernization criteria, and applies to the Military Departments, the Defense Agencies, and the DoD Field Activities in accordance with USD (AT&L) Memorandum dated 29 May 2002

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