BLAST-RESISTANT SYSTEMS · ALUMINIUM

Aluminium blast-resistant doors

Glazed aluminium blast doors on the British Aluminium BA Blast 25 AD system.



Our own aluminium blast door system, single or double leaf, with blast glazing in the leaf. Leaf, frame, hinges, exit hardware, glazing and anchorage are engineered as one assembly, and the leaf stays in its frame under the design load.

DESIGN THREAT	OVERPRESSURE	BLAST GLAZING	LEAVES
25 kg TNT	3 psi	26 mm	1 or 2
UFC 4-020-01	Incident; 45 kPa reflected	ER2-NS to EN 13541	Outswing or inswing

Benefits

- **Our own system.** British Aluminium BA Blast 25 AD.
- **Approved on defence projects.** Designed to UFC 4-020-01.
- **One engineered assembly.** Leaf, frame, hardware and anchors.
- **Glazed vision panels.** Blast glass in the leaf.
- **Safe escape.** Single-action panic exit device.
- **Suits coastal sites.** Aluminium, powder coated or anodised.
- **Manufactured in Qatar.** Fabricated and finished in Doha.

Options

Single or double leaf · Vision panels · Access control · Hold-open device · RAL or anodised

Technical data

ITEM	SPECIFICATION
System	British Aluminium BA Blast 25 AD
Design threat	25 kg TNT · 3 psi incident overpressure
Design load	44.9 kPa reflected · 183 kPa·ms · 8.2 ms
Design method	UFC 4-020-01 · UFC 3-340-02, dynamic analysis
Configuration	Single or double leaf, outswing or inswing
Material	Aluminium, mill certified to ASTM B209
Glazing	26 mm laminated blast glass, ER2-NS · EN 13541
Hinges	Continuous, full height · ANSI/BHMA A156.26
Exit device	Panic exit device · EN 1125
Seals	Continuous neoprene perimeter seal
Anchorage	12 mm anchors at 200 to 300 mm centres
Finish	Powder coat · AAMA 2604 / Qualicoat Class 2

Where it is used

Control rooms and control buildings · Refineries and gas plants · LNG and export terminals · Petrochemical plants · Process and compressor buildings · Substations and power plants · Site offices and laboratories · Government and ministry buildings · Embassies and consulates · Defence and military facilities · Police and security buildings · Guard houses and gatehouses · Airports and ports · Data centres · Banks and cash centres · Hospitals · Safe rooms and shelters · Critical infrastructure

Confirm the complete configuration. Design loads shown are from project design calculations. Blast load, sizes and supporting structure are confirmed for each project before ordering.

Send us your drawings and specification.

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