BLAST DOORS



European EMC Products Ltd

Blast Doors

Unlike most other doors, a blast door is provided as a complete assembly including the door, frame, hardware, and accessories. This is necessary as the items, such as the door, frame, latches, and hinges, are of special manufacture and are independent parts of the blast resistance. To facilitate the specification of individual door assemblies, the door type, blast effects, rebound, deformation limits, operating forces, hardware, and accessories for each door are brought together under a 'Blast door assembly specification' in part 2, where assembly specification paragraphs for the various door types are provided.

Structural steel doors are flush mounted in frames, or surface mounted. Reinforced concrete doors are surface mounted. Doors can be manually operated, side hinged, swinging type. Each doors assembly shall include the door, frame, anchors, hardware, and accessories, provided by EEP.

Frames and anchors will be capable of transferring blast and rebound reactions to the adjacent supporting structure. Resistance

to blast shall be demonstrated either by design calculations or tests on prototype design assemblies.



Design Requirements

EEP design blast doors for a wide range of applications, particularly for EMPP (Electro-Magnetic Pulse Protection). Careful design is required to take into consideration the following:

Static Material Strength

Dynamic Material Strength

Structural Member Design

Dynamic Analysis and

Deformation

Rebound Resistance

Blast Effects

Overpressure

Overpressure Direction

Fragment Resistance



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Surface Treatment

The frames are primed for a high level of corrosion protection. Other finishes are available on request.

Installation

European EMC Products can offer a complete installation service for their doors.









All EEP blast door designs have been evaluated by independent testing



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