

## Specification for Steel Hinged Blast Doors

### Construction

Blast Doors are constructed using Steel box section and steel sheet, which is fully welded as per the design specification. The frame is designed for casting into the door opening. It is recommended that Blast Door frames are **CAST** into the buildings fabric. This provides a stronger mounting and means no drilling or unnecessary penetrations through the host building wall around the opening.

### Standard Specification

The standard specification will exceed the following specification: 25 psi and the blast effect of a 500 lb bomb within 100ft (30m). Class A fragment penetration. The blast proof doors are to be designed to resist the effects of a cased 500lb charge (standard US MK117 Bomb) at 100ft standoff. In the absence of further detailed information, this has been interpreted as a standard general purpose bomb.

Total charge weight (H-6/Tritonal) = 734lb (334kgs)  
Equivalent TNT = 488lb (222kgs)  
Peak Reflected Pressure,  $P_r$  = 99.1kPa  
Reflected Impulse,  $I_r$  = 752.9kPa-ms  
Idealised Triangular-decay duration,  $t$  = 15.2ms  
LPG weapon direct hit



### Installation

Complete or supervised installation is optional by EEP.

### European EMC Products

European EMC Products Ltd was established in July 1996 to supply high quality products and services to the Electromagnetic Compatibility (EMC) market.

### Quality

European EMC Products are registered to BS EN ISO 9000:2008, certificate No. FS 38901. License scope: The design, assembly, servicing and testing of RF Shielded structures and equipment including EMI shielding and thermal management materials; Gas tight doors; and specialised mobile electromagnetic pulse protected (EMPP) containers.