

# BLAST DOORS

## Custom designed Special Purpose Door

**TECH SHEET** – SPBL01

Issue: 01-10-03

**Custom designed doors for the protection of explosion and fire**

### DESCRIPTION

Pyropanel Blast doors are custom designed for each specific project for protection from the forces generated in an explosion. Available with a fire resistance level of up to 4 hours.

### APPLICATIONS

Especially designed for protection from explosions in motor, generator and substation rooms. These doors are used extensively in industries such as mining, petrochemical and refinery, grain and milling, and are now used as a protection aid against terrorism.

### QUESTIONNAIRE

The following questionnaire provides the initial basis for the door design. Further information may be required to correctly design the door for the particular purpose.

1. What is the blast pressure (Kpa)?
2. What is the duration of the pulse?
3. Is negative pressure to follow positive pressure, and if so, what is the duration of negative pressure?
4. Is the blast force acting to open or close the door?
5. What fire rating is required on the door (up to 4hrs)?
6. Is the door required to be opened after the blast?
7. Is protection required from flying objects? If so, please specify requirements.
8. What is the normal pressure differential across the door?
9. Is sealing against gas leakage required when door is shut during normal operation?
10. Are there likely to be further blasts resulting from the first blast?

### QUESTIONNAIRE CONTINUED

11. Would the blast be;
  - a. In free air
  - b. On the ground
  - c. In a confined area
12. What type of Protection is required?
  - a. Life
  - b. Equipment
  - c. From Fragments
  - d. From Further Detonations
  - e. Sound Protection
  - f. Smoke
  - g. Security
13. Other items to be specified;
  - a. Vision Panel
  - b. Automatic Closing
  - c. Locking requirements
  - d. Construction of wall
  - e. How frame is to be fixed to wall

### HOW TO SPECIFY

To specify Pyropanel Blast doors, please answer the above questionnaire, and then forward your completed answers to your local Pyropanel distributor, or to Pyropanel directly. The door will be designed by Pyropanel Developments, and then installed by an authorised installer under the supervision of Pyropanel Developments.

...“Doors to be Pyropanel Blast door as engineered and designed by Pyropanel Developments”....



## UNITED DOORMAKERS

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