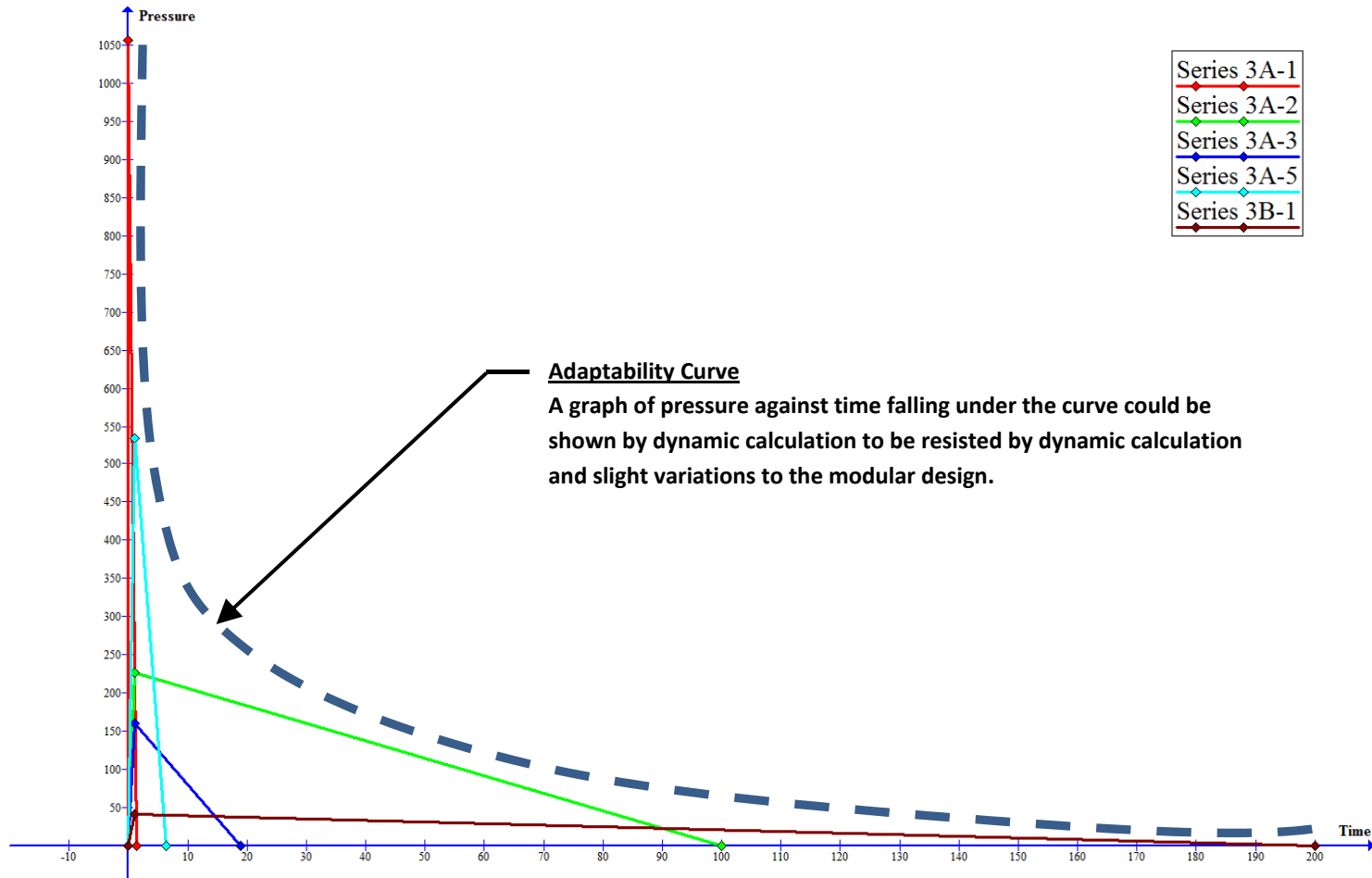


Protectex Door Matrix

The following table is a brief overview of our protectex range of doors showing typically high blast levels. The Series 3 Protectex range of doors can however be tailored to suit project specific requirements where doors and windows are required to provide a high level of protection from various threats. The range is in continual development and improvement as shown in the table under “planned development”.

| ■ | Proven | Quick reference | | | | | Glazing / Panel | | | | Blast | | | Fire | | Ballis tic | Forced Entry |
|--------|---------------------------|-----------------|------|-----------|--------------|---------------|-----------------|--------------|-------------|--------------|------------|-----------------|--------------------|---------------------|----------------------|---------------|-----------------------------------|
| | Planned development | | | | | | | | | | | | | | | | |
| Series | Description | Blast | Fire | Ballistic | Forced Entry | Thermal break | Solid | Vision panel | Half Glazed | Fully Glazed | Peak (kPa) | Duration (msec) | Impulse (kPa msec) | Integrity (minutes) | Insulation (minutes) | level | Level |
| 3A-1 | Steel Blast Door | ■ | □ | ■ | ■ | □ | ■ | ■ | | | 1056 | 1.4 | 728 | | | BR7 | |
| 3A-2 | Steel Blast Door | ■ | □ | ■ | ■ | □ | ■ | ■ | | | 227 | 100 | 11350 | | | BR6 | US DOS 60 minute 15 with VP |
| 3A-3 | Steel Blast Door | ■ | □ | | | □ | ■ | | | ■ | 160 | 19 | 1500 | | | | |
| 3A-4 | Steel Blast Window | ■ | □ | ■ | □ | □ | ■ | | | ■ | 227 | 100 | 11350 | | | BR7 | |
| 3A-5 | Steel Blast Door | ■ | □ | ■ | ■ | □ | ■ | ■ | | | 534 | 6.4 | 1707 | | | BR4 | |
| 3B-1 | Steel Blast and Fire Door | ■ | ■ | ■ | | □ | ■ | ■ | ■ | ■ | 41 | 200 | 4100 | 136 | 28 | BR4 | |

Series 3 Pressure / Time Graphs



Series 3a-2 Steel Blast Door (227/100)

A significant peak pressure with a significant duration, this door is suitable for both petrochemical and TNT equivalence blasts. This version of the protectex range of doors has been proven by dynamic calculation for blast and has been tested as a solid door with no vision panel to American Department of State forced entry and ballistic standards.

- Calculated to resist a blast with peak pressure of 227 kPa and duration of 100msec
- Ballistic tested to BR6
- Upgradable with 12mm SD-STD-01.01 DOS 15 minute with vision panel (60 minute solid door)

