



# TERMINAL OPTIONS. Rail, Block or Ceramic Post

www.transtech.com.au



**FIRE TESTED to IEC 331  
AS/NZS 3013:2005 Compliant**

**BPG-F Specification:**  
IP66/67 to IEC 60529:1989 plus A1:1999 plus A2:2013  
IK09 Impact level to EN 62262:2002 (IEC 62262:2002)  
-70°C to +130°C Temperature Range  
Lloyds Register of Shipping – Certificate MCH 700327

# CAPABILITY SUMMARY

## FIRE RATED ENCLOSURES, APPLICATIONS & EXPERIENCE

When installing essential systems such as emergency lighting or fire safety controls, great emphasis is placed upon the fire survivability of the critical components such as fire dampers, actuators and cables that are contained in the area.

Often the specification of the junction boxes is neglected with respect to fire survival.

On the basis that any system is only as good as the weakest part, it is important that attention is paid to the junction boxes being utilised for essential systems. ABTECH have many years experience of ensuring the fire survival of junction boxes using both the **SX** (stainless steel) and **BPG** (glass reinforced polyester) ranges.

ABTECH have supplied major projects worldwide with fire rated junction boxes including the Channel Tunnel, Dartford Tunnel and the Tengiz Oil Refinery in Kazakhstan to name but a few.

In conclusion, the ABTECH SX and BPG ranges, when fitted with ceramic terminals, are suitable for use in areas which are designated to require fire resistant cables. The type of enclosure to be used will depend on the individual circumstances of the area and advice on the most suitable enclosure should be sought from Transtech's Technical Sales Department on 08 93022044.

### ABTECH Stainless Steel and GRP ranges.

#### IEC331 Fire Test

750°C for 3 hours followed by visual inspection • Then 5kV insulation resistance test

#### BS6387 Fire Test - 3 separate tests

1. Fire alone: Category C • Flame at 950°C for 3 hours, cables powered
2. Fire with Water: Category W • Flame at 650°C for 15 minutes then flame and water spray for 15 minutes
3. Fire with Mechanical shock: Category Z • Flame at 950°C with mechanical shock applied at 15s intervals for 15minutes.

**Note: All fire rated enclosures must be fitted with ceramic terminals**

The Standard IEC 331.1970 became IEC 60331 which forms the technical basis for AS/NZS 1660.5.5 (technically aligned to IEC 60331, 750°C for 3 hours followed by visual inspection then 5kV insulation test.

The ABTECH range is compliant with Standard AS/NZS 3013:2005 – equivalent to WS52W / IP67 / IK09.

The BPGF range of GRP enclosures offer the following:

**IP66/67 to IEC 60529:1989 plus A1:1999 plus A2:2013**  
**IK09 Impact level to EN 62262:2002 (IEC 62262:2002)**  
**-70°C to +130°C Temperature Range**  
**Lloyds Register of Shipping – Certificate MCH 700327**

### Available Range

Model No and Sizes

| GRP Range<br>Polyester Reinforced |           |           |           | SX Range<br>#316 Stainless Steel |           |           |           |
|-----------------------------------|-----------|-----------|-----------|----------------------------------|-----------|-----------|-----------|
| Part No                           | W<br>(mm) | H<br>(mm) | D<br>(mm) | Part No                          | W<br>(mm) | H<br>(mm) | D<br>(mm) |
| BPG1                              | 80        | 75        | 55        | SX45                             | 114       | 114       | 51        |
| BPG2                              | 110       | 75        | 55        | SX64                             | 102       | 152       | 63        |
| BPG3                              | 160       | 75        | 55        | SX66                             | 152       | 152       | 102       |
| BPG4                              | 190       | 75        | 55        | SX0                              | 152       | 229       | 140/200   |
| BPG4.5                            | 190       | 75        | 75        | SX0.5                            | 184       | 274       | 140/200   |
| BPG5                              | 230       | 75        | 55        | SX1                              | 234       | 324       | 140/200   |
| BPG6                              | 122       | 120       | 90        | SX1.5                            | 306       | 306       | 140/200   |
| BPG7                              | 220       | 120       | 90        | SX2                              | 372       | 324       | 140/200   |
| BPG8                              | 160       | 160       | 90        | SX3                              | 372       | 448       | 140/200   |
| BPG9                              | 260       | 160       | 90        | SX45                             | 372       | 510       | 140/200   |
| BPG10                             | 360       | 160       | 90        | SX5                              | 510       | 510       | 140/200   |
| BPG11                             | 560       | 160       | 90        | SX6                              | 510       | 780       | 140/200   |
| BPG12                             | 255       | 250       | 120       | SX7                              | 650       | 950       | 140/200   |
| BPG13                             | 400       | 250       | 120       | SX8                              | 800       | 1250      | 140/200   |
| BPG13.5                           | 400       | 250       | 160       |                                  |           |           |           |
| BPG14                             | 600       | 250       | 120       |                                  |           |           |           |
| BPG15                             | 400       | 405       | 120       |                                  |           |           |           |