

Extreme Temperature Junction Box

Abtech enclosures provide exceptional levels of fire resistance. These can be used to ensure that safety-critical systems maintain circuit integrity during prolonged exposure to extreme temperatures and flames:

- Emergency Lighting utilising Central Batteries
- Fire Suppression Systems
- Building Monitoring and Warning Controls

Our GRP and Stainless enclosures exceed the requirements of BS EN 50200 and provide 120 minutes of fire resistance. Tested in accordance with BS8434-2:2003+A2:2009 to temperatures of over 930°C.



BPGF Range (EBGF_)

Two sizes of pre-assembled GRP enclosures supplied with Abtech's ceramic terminal block. Supplied with 4 x M20 threaded entries and two permanent stainless plugs for quick installation:

- PH120 resistance to fire with mechanical shock
- 8-way or 12-way ceramic terminals
- IP66/67

We also offer the BPGF range with a fuse.



Product Reference	Width (mm)	Height (mm)	Depth (mm)	No. of Terminals	Max Conductor Size	Weight (kg)
EBPG6F-120	122	120	90	8	6mm ²	0.95
EBPG8F-160	160	160	90	12	6mm ²	1.2

SX Range (ESSX_)

The SX enclosure is made from 316L stainless steel and can be fitted with ceramic components to provide superior environmental protection in the harshest environments:

- PH120 resistance to fire with mechanical shock
- LU 1-085 approval for LUL/TfL use
- IP66/67
- Available in a range of standard sizing and custom up to 2m x 2m



Product Reference	Width (mm)	Height (mm)	Depth (mm)	Weight (kg)
SX0	152	229	140/200	3.2/4.0
SX0.5	184	274	140/200	5.0/6.0
SX1	234	324	140/200	6.3/7.2
SX1.5	306	306	140/200/300	7.3/8.8/11.3
SX2	372	324	140/200/300	9.5/11.3/14.3
SX3	372	448	140/200/300	11.3/13.3/16.6
SX4	372	510	140/200/300	12.7/14.8/18.3
SX5	510	510	140/200/300	17.0/20.0/25.0
SX6	510	780	140/200/300	24.0/27.0/32.0
SX7	650	950	140/200/300	35.0/39.0/45.0
SX8	800	1250	140/200/300	40.0/52.0/72.0

Fire Resistance for Rail

Abtech's ZP range of polycarbonate enclosures is suitable for use in Railway technology applications. They have been tested in accordance with EN 45545-2, the European Railway standard for Fire Safety.



Cabling and Internal Components

All fire-rated applications must consider the complete electrical circuit and its integrity. All internal components, such as terminals and fuse holders, must be able to withstand the extreme temperature required.

Contact our sales team:

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