

Technical Data Sheet

Blazetrapp[®] Rapid Outlet Box System (ROBS)

Revision 6 - 18th May 2026



WINNER OF THE 2024
 **Constructing
Excellence**
Awards 2024





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General Product Description

Blazetrap® Rapid Outlet Box System (ROBS) is a groundbreaking Passive Fire Protection product, recently winning the UK Construction Excellence National Award for Innovation.

Advanced Fire Protection: Many current electrical back boxes are designed only for electrical connections with little fire protection. Blazetrap® ROBS addresses this with a Stainless Steel Electrical Back Box featuring a unique injection-moulded Intumescent insert (ROBS Intumescent System) made from high-quality exfoliated graphite.

Innovative Technology: The ROBS Intumescent System reacts when exposed to fire, forming a solid char around cables, thus insulating the substrate, thereby starving the fire of essential elements for combustion and preventing the passage of fire from one compartment to another. This technology is patented and trademarked.

Complete System: No separate box outers needed, eliminating the risk of incorrect sizes, depths, and materials.

Ease of Installation: Integrated pushout fixing tabs, quick installation of the ROBS intumescent System, no sealants or supporting brackets needed, one size, Blazetrap® ROBS fits all cavity wall depths.

Cost Efficiency: Reduces installation costs, requires zero maintenance, and offers a longer product lifespan.

Traceability: Full product traceability from manufacture to end user and back again.

Product Specifications:

Single Gang

Blazetrap® ROBS 1 - 12.5/25mm Single Gang Fire Rated Back Box

Blazetrap® ROBS 1 - 15/30mm Single Gang Fire Rated Back Box

Blazetrap® ROBS 1 - 12.5/25mm. 74 x 74 x 50mm stainless steel back box designed for 30/60 minute fire rated partition walls. Suitable for installations using 1 x 12.5mm or 2 x 12.5mm Fireline plasterboard. Includes push out fixing positions specifically configured for 12.5mm board thickness configurations ensuring secure installation and performance.

Blazetrap® ROBS 1 - 15/30mm. 74 x 74 x 50mm stainless steel back box designed for 90/120 minute fire rated partition walls. Suitable for installations using 1 x 15mm or 2 x 15mm Fireline plasterboard. Includes push out fixing positions specifically configured for 15mm board thickness ensuring correct fixing engagement and compliance.

Double Gang

Blazetrap® ROBS 2 - 12.5/25mm Double Gang Fire Rated Back Box

Blazetrap® ROBS 2 - 15/30mm Double Gang Fire Rated Back Box

Blazetrap® ROBS 2 - 12.5/25mm. 134 x 74 x 50mm stainless steel back box designed for 30/60 minute fire rated partition walls. Suitable for installations using 1 x 12.5mm or 2 x 12.5mm Fireline plasterboard. Includes push out fixing positions specifically configured for 12.5mm board thickness ensuring secure installation and performance.

Blazetrap® ROBS 2 - 15/30mm. 134 x 74 x 50mm stainless steel back box designed for 90/120 minute fire rated partition walls. Suitable for installations using 1 x 15mm or 2 x 15mm Fireline plasterboard. Includes push out fixing positions specifically configured for 15mm board thickness ensuring correct fixing engagement and compliance.

Liability Reduction: The Blazetrap® Rapid Outlet Box System (ROBS) significantly reduces liability risks associated with electrical installations as well as different trade use installations. Unlike alternative products on the market, such as Putty pads, which require separate purchases from different suppliers and may not be fire-rated or tested together, Blazetrap® offers a complete, tested system. This comprehensive solution ensures enhanced fire protection and compliance with safety standards, providing peace of mind for specifiers, design engineers, architects, installation contractors, main contractors, development owners, and residents. The liability is effectively omitted, eliminating risks associated with incomplete or untested systems.

Experience the future of Passive Fire Protection with Blazetrap® ROBS. Ensure safety and compliance with this cutting-edge solution.

Technical Data

ROBS Outer	430 Stainless Steel
Heat Resistance	815c in continuous service
Corrosion	Resistance to acid/moisture
ROBS Intumescent System Insert	Halogen-free based on expandable graphite
Material Structure	Injection Molded
Liner Thickness	0.5-2mm
Start of Reaction	From ca. 175°C
Expansion Ratio	Ca. 16 times
Expansion Pressure	Ca. 0.45
(N/mm2) Colour	Anthracite grey
Fire Tested	Fire Tested: BS EN 1366-3: 2021 Fire tested for insulated & non insulated walls BS1366-3: 2021
Acoustic Tested	BS EN ISO 10140-2:2010
Product Sizes	Blazetrap® ROBS 1 Single Gang Electrical Back Box: 74x74x50mm, 12.5/25mm. Blazetrap® ROBS 1 Single Gang Electrical Back Box: 74x74x50mm, 15/30mm. Blazetrap® ROBS 2 Double Gang Electrical Back Box: 134x74x50mm, 12.5/25mm. Blazetrap® ROBS 2 Double Gang Electrical Back Box: 134x74x50mm, 15/30mm.
Electrical Fittings	Allows for 20mm and 25mm fire shield gland fittings Rear, Top and Bottom cable entry Integrated box fixings suitable for plasterboards 12.5 – 30mm thicknesses

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Blaze Trap Ltd Unit 29 Penraevons Light Industrial Estate, Jackson Road, Leeds, West Yorkshire, LS7 2AP	
CE 2821-CPR-0354	
BS EN 1366-3: 2021	
Blazetrap® Rapid Outlet Box System (ROBS 1 & 2)	
For fire compartmentation and / or fire protection or performance	
Essential Characteristics	Performance/Harmonized Technical Specification
Reaction to Fire	Class E according to EN13051-1
Resistance to Fire	Resistance to fire performance & field of application in accordance with EN13501-2 See ETA 25/0262 clause - Annex A
Dangerous Substances	See ETA 25/0262 Clause 1
Service & Durability	Type: X Intended for use in conditions exposed to weathering in accordance with EOTA technical documents TR024
Acoustic	BS EN ISO 10140 – 2: 2010
Other	Not applicable/No performance determined

Tools & Equipment

- Blazetrap® Rapid Outlet Box System (ROBS 1 or ROBS 2)
- Screwdriver
- Pen/Pencil
- Spirit level
- Drill
- Multi-tool or plasterboard saw
- Utility knife
- M3.5 x 50mm electrical socket screws electrical socket screws

1. Preparation

- Ensure the **power is turned off** at the main circuit breaker.
- Gather all necessary tools and materials.



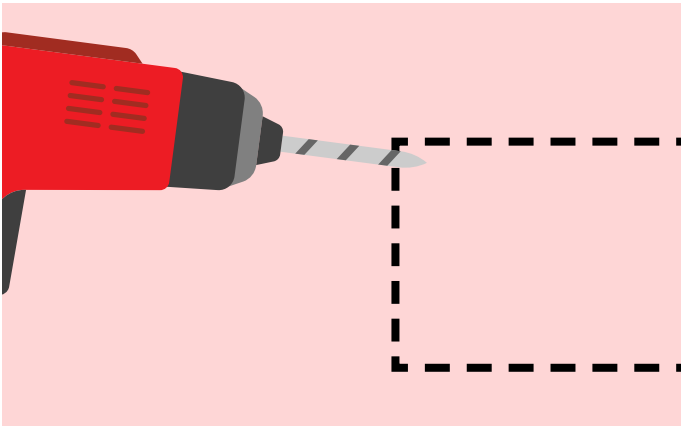
2. Marking the Location

- Choose the location for the Blazetrap® ROBS socket box.
- Use a pencil/pen to mark the position on the wall where the box will be installed, using the stainless steel box outer as a marking guide drawing around the outer circumference of the box. **NOTE:** Ensure the box is level using a spirit level.



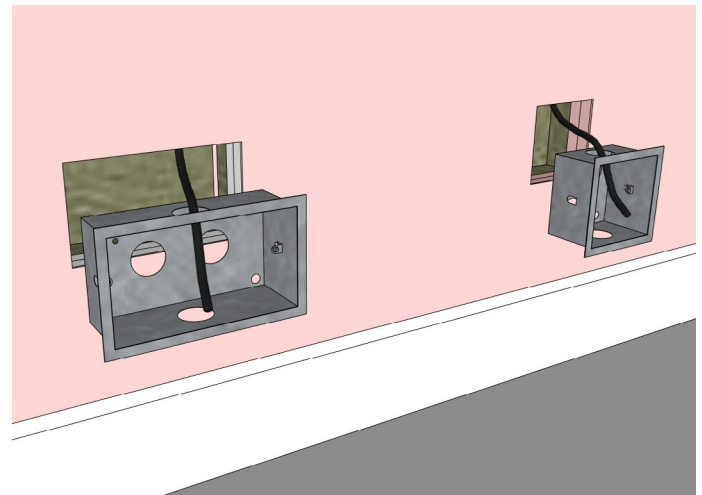
3. Cutting the Hole

- Use a drill to create pilot holes at the corners of the marked area.
- Carefully cut out the marked area using a multi-tool or plasterboard saw.



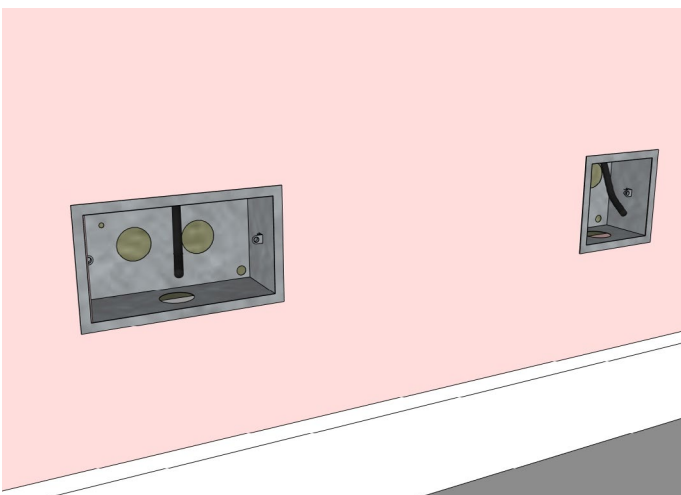
4. Installing the stainless steel box outer

- Feed the electrical cables through the box inlet holes provided.



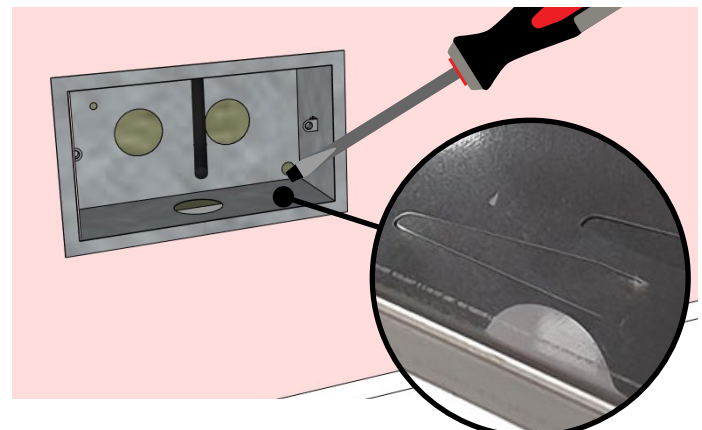
4. Installing the stainless steel box outer

- Insert the stainless steel box outer into the hole.



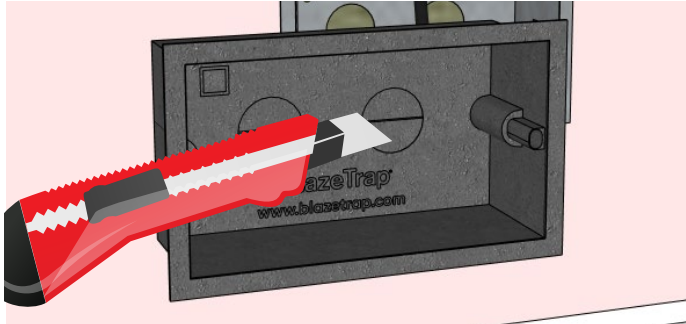
4. Installing the stainless steel box outer

- Secure the stainless steel box outer to the wall with a screwdriver to push the integral pushout fixing tabs/wings. **NOTE:** Select the integral pushout fixing tabs/wings depending on the plasterboard thickness.



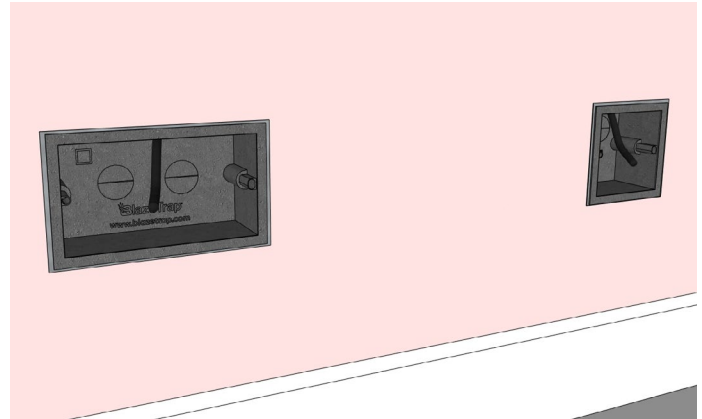
5. Installing the Intumescent Box Liner

- If using Kopex-style cable protection glands, cut away the inlet guide holes.
- If using standard cables, feed them through the inlet guide holes.
- When using top or bottom entry, slit/cut the intumescent liner using a utility knife and feed the cables through.



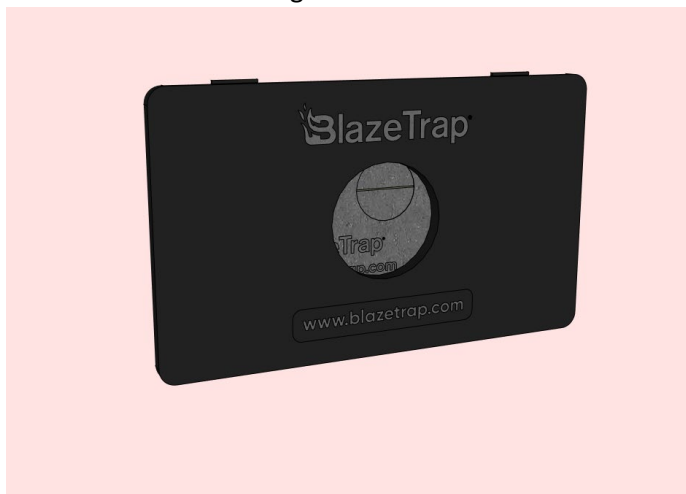
5. Installing the Intumescent Box Liner

- Push the intumescent liner into the stainless steel box outer. **NOTE:** Ensure the stainless steel box outer switch plate threaded screw inserts are aligned before pushing the liner back to its guide holes.



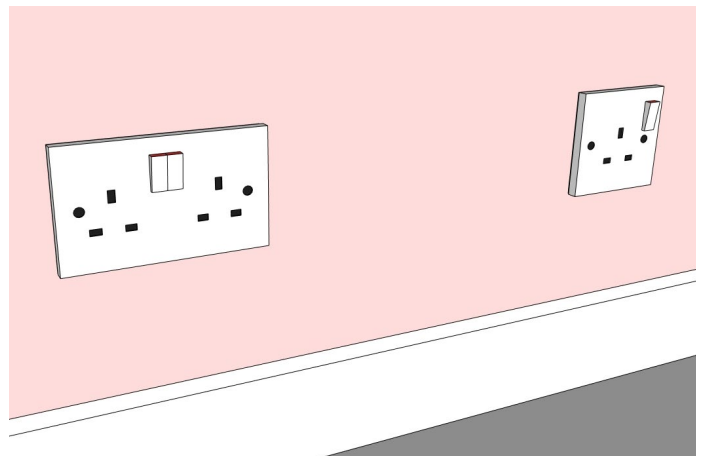
6. Final Steps

- If purchased (Optional extra), push fit the BlazeTrap® Plaster protection plate to the front of the intumescent liner prior to any application of plaster or decorative coatings



6. Final Steps

- You are now ready to connect the electrical switch, data, fuse plate, etc., supplied by others. **NOTE:** Due to the depth of the box, you will require M3.5 x 50mm electrical socket screws, supplied by others.
- Clean up the work area.



Safety Tips

- Always turn off the power before starting any electrical work.
- Double-check all connections before turning the power back on.
- If unsure about any step, consult a professional electrician.

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