

Article Overview

Fireproof cable trays in Australia must comply with AS/NZS3013:2005, ensuring 2-hour fire resistance and proper support systems for safe and reliable cable management.

Standards and Compliance

Fireproof cable trays in Australia are governed by AS/NZS3013:2005, which specifies fire-rated cable management systems with a WS5X classification capable of withstanding 2 hours at 1050°C. Compliance requires using certified trays, ladders, and support systems, and following manufacturer installation instructions to maintain fire rating integrity.

Types of Fireproof Cable Trays

- o Cable Trays: Provide continuous support along the entire length, typically in 3m sections, suitable for light to medium loads.
- o Cable Ladders: Offer higher strength with welded rungs, available in 3m or 6m lengths, ideal for heavy-duty applications.
- o Ladder Trays and Mesh Systems: Designed for specific load requirements and environments, including high-risk or industrial sites.

Support Systems and Installation

- o Trapeze Brackets: Single, twin, or multi-tiered supports for horizontal, vertical, or on-edge installation.
- o Cantilever Brackets: Provide additional flexibility for heavy loads or complex layouts.
- o H-Frame Assemblies: Floor-mounted supports for large cable runs.
- o Load and Span Considerations: Maximum support spans depend on cable weight; shorter spans support heavier loads with less deflection.

Materials and Finishes

- o Steel: Pre-galvanised or hot-dip galvanised for corrosion resistance.
- o Powder Coating: Optional for aesthetic or non-reflective environments, including tunnels.
- o Stainless Steel (316): For harsh outdoor or corrosive conditions.

Fireproofing and Passive Protection

- o Cable Coatings and Wraps: Systems like Pyro-Safe Flammotect-A or FyreWrap prevent flame spread and

Installation of Fire-Resistant Cable Trays in Australia

maintain circuit integrity .

- o Fire Rated Enclosures: Vermiculite sprays or fireproof boards can protect entire cable tray runs in critical areas .
- o Penetrations: Fire-rated collars or cast-in plates ensure walls and slabs maintain fire compartmentation .

Suppliers and Resources

- o EzyStrut: Offers AS/NZS3013:2005 certified trays, ladders, and custom solutions with full technical support .
- o Burndy CSS: Provides a wide range of fire-rated cable support systems with load ratings up to 150 kg/m and various finishes .
- o Kounis Group: Supplies flexible fire-rated cable trays and ladders with 2-hour fire rating and multiple support options .
- o Ozstrut: Fire-rated trays for commercial and industrial projects, tested for circuit integrity .
- o Trafalgar Fire: Specializes in passive fire stopping, cable coatings, and fireproofing systems for critical circuits .

Installation Best Practices

- o Select the correct tray or ladder type based on load, span, and environment.
- o Use certified support brackets and follow manufacturer spacing guidelines.
- o Ensure proper orientation: horizontal, vertical, or on-edge as required.
- o Apply fireproof coatings or wraps where necessary, especially at penetrations.
- o Verify compliance with AS/NZS3013:2005 and National Construction Code requirements.
- o Coordinate with suppliers for complete kits including trays, supports, fasteners, and accessories to simplify installation . By adhering to these standards and using certified products, fireproof cable tray installations in Australia can maintain circuit integrity, prevent fire spread, and ensure long-term safety and compliance.

Check out detailed instructions on fire-resistant installations on our brochure [Download brochure](#) in

Electrical installations are the number one cause of fire in modern buildings in Australia. Fire rated cable support systems can reduce

Proper cable tray installation is essential in managing and protecting electrical cables in

It outlines the requirements that all cables and associated trunking, conduits or cable trays should, wherever possible,

Choosing the right cable tray system is vital for your solar installation's safety, performance, and future

Installation of Fire-Resistant Cable Trays in Australia

scalability. Ensure your trays

We now have a NEW range of fire rated cantilever assemblies for cable ladder and ET3 cable tray; expanding your choice when it

Fire Rated AS/NZ 3013:2005 Introduction Electrical installations are the number one cause of fire in modern buildings in Australia.

We offer a range of FRP or GRP Cable Management Systems including trays, ground ducts, ladders, accessories, supports, fittings,

The modular design integrates seamlessly into our cable support systems, enabling faster installation and long-term reliability.

Nearly every aspect of cable tray design and installation has been explored for the use of the reader. If a topic has not been covered

The Kounis Group Fire Rated Medium Duty Ladder Tray System has been designed as an economical solution for Medium fire rated

The Electra Fire Rated Cable installation guide details procedures required to maintain performance of the

Learn how fire protection for cable trays enhances industrial safety by preventing fire hazards in critical areas and

Compliance with Australian Standards: Ensure your chosen cable tray system complies with relevant Australian safety standards like

We construct and supply both solid and ventilated trays with pre-assembled fittings with pre-drilled straight sections. This allows

FLAMMOTECT-A fire protection coating and DG-CR 0.7 fire protection tape are highly resistant and form a

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