



Wagners Composite Fibre Technologies (CFT)

Pole Shield™ with FireFix™ Technology

Pole Shield™ with FireFix™ technology has been developed to provide an added layer of bushfire protection for Wagners' fire resilient FRP utility poles, supporting improved asset resilience in high-risk bushfire environments.

The system has been tested to CSIRO bushfire conditions for flame zone bushfire exposure, supporting specification in high-risk areas for bushfire, or hard to access areas where regular vegetation management is problematic.

Engineered for multi-event performance, Pole Shield™ is designed to maintain protective capability across repeated bushfire exposures. This helps utilities reduce the risk of asset damage, network disruption and costs associated with repeated intervention following fire events.



Performance Advantages



Tested to CSIRO bushfire conditions - for flame zone bushfire exposure, supporting specification in high-risk bushfire environments



Enhanced bushfire protection for FRP utility poles - adds an external thermal barrier over fire resilient FRP poles



Multi-event performance - maintains protection across repeated bushfire exposures



Live network retrofitting - can be installed on existing FRP utility poles without the need for network shutdown



Modular exoskeleton design - One metre segments simplify transport and assembly



Scalable coverage - stackable segments adapt to site specific protection needs



Lightweight - reduced weight helping crews install the system safely and efficiently in field



80-year design life - engineered for long-term network resilience



Reduced maintenance demand - minimises post-fire inspection, repair and replacement requirements



Proprietary FireFix™ Technology - powered by Wagners geopolymer-based technology to provide advanced thermal protection inspired by aerospace thermal shielding systems

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Pole Shield™ has also been designed with practical network deployment in mind. The system can be retrofitted to existing FRP utility poles without the need for network shutdown, allowing utilities to enhance bushfire protection across installed assets with minimal disruption. Its modular exoskeleton design uses stackable one-metre segments, simplifying transport, handling and on-site assembly. This scalable format allows coverage heights to be tailored to site-specific requirements, including local bushfire risk, terrain, vegetation load and asset criticality.

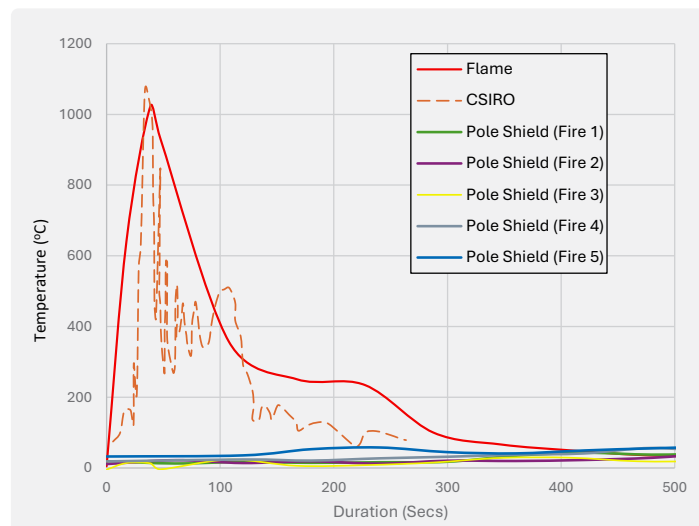
Each segment is lightweight, helping reduce manual handling effort and supporting safer, more efficient field installation. The modular format also allows crews to work with manageable components rather than large, heavy units, improving installation practicality in remote or difficult access locations.

Built for long-term infrastructure performance, Pole Shield™ is engineered for an 80-year design life, aligning with the durability expectations of modern utility networks. By adding a robust external protection layer, the system can also help reduce maintenance demand by minimising post-fire inspection, repair and replacement requirements.

At the heart of the system is Wagners' proprietary FireFix™ technology. Powered by advanced geopolymer based materials, FireFix™ provides high-performance thermal protection inspired by aerospace thermal shielding systems.

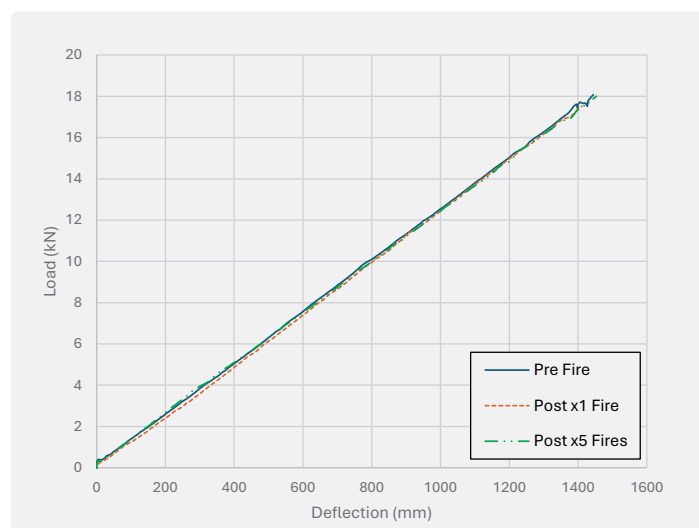


Pole Shield with FireFix™ Technology



CSIRO curve bushfire testing - demonstrating consistent thermal barrier performance across repeated bushfire exposures

Full Scale Load Deflection Curve



Full scale cantilever test results - demonstrating no reduction in structural performance post exposure to repeated bushfire events

Wagners CFT meets the international management standards for:



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