



## NSW Rail Network Restoration Trial

CABLEprotect MM RAILduct™

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The versatility, simplicity and impressive strength-to-weight properties of Cubis' modular cable trough system, MM RAILduct™, made it an ideal solution for a remote and complex installation in Wondabyne, New South Wales.

The installation also served as a field trial for the product's capability to meet Australian rail standards, with future observations to occur over a period of time to further verify the integrity of the MM RAILduct™ system.

## Project Challenges

- Improve trough integrity and security across asset network
- Provide increased health & safety benefits to contractor
- Reduced transportation and installation costs associated with the isolated site location

Due to the isolated location of the project, the contractor required all materials and labour to be transported to site across a barge with limited ramp access and uneven ballast at ground level prohibiting the use of heavy lifting machinery on site.

The use of a traditional concrete troughing system did not provide a viable option due to the complex location and access issues. A superior level of workplace health and safety was of utmost importance throughout the installation, including the safe loading and unloading of all equipment from the barge.

## Project Outcomes

Effectively addressing the priorities and challenges of the project, Cubis' MM RAILduct™ troughing system enabled rapid installation of the network restoring the damaged section of galvanised steel troughing and unprotected cables.

The lightweight Class A modular troughing system required no mechanical lifting with each one (1) meter section easily assembled into position on site manually by a small crew. Elimination of possible health and safety risks were addressed by the lightweight yet robust structure of the MM RAILduct™ system.



Superior asset protection was provided by the troughs interlocking tamper proof covers with secure locking bolts fitted on both sides. All remediation requirements, including excavation, assembly, integration with existing trough network, modification to the units and backfill were completed within hours using only standard power tools and no specialist labour or equipment.

The integrity of the overall rail troughing network was significantly improved by the MM RAILduct™ system whilst also resulting in a substantial reduction in costs associated with transportation and installation. The flexibility, strength and superior quality of the modular CABLEprotect troughing range developed by Cubis, in particular the MM RAILduct™, provides an innovative solution to easily overcome challenging project requirements or to simply speed up installation capabilities when time and money matter.



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## Driven by Innovation

Cubis Systems is Australia's leading manufacturer and supplier of network access pits and cable protection solutions used in the construction of infrastructure networks for Rail, Telecoms, Water, Defence, Construction and Power markets.

Cubis has developed an innovative approach in an old-fashioned industry. This has been achieved by developing quality products which replace traditional construction materials, like bricks and concrete, with lightweight plastics incorporating intelligent design features. These can then be installed faster and ultimately save our customers both time & money.

Cubis manufactures its preformed network access pit systems STAKKAbOX™, cable protection system RAILduct™, MULTIduct™ multiple duct system and various AX-S™ access covers at its manufacturing sites throughout the UK and Ireland. These products are exported to more than 25 countries throughout the world. With additional manufacturing facilities located throughout Australia, Cubis provides customised, highly-engineered underground access solutions including their robust precast concrete and MONObOX™ access pit systems, developed in partnership with leading Authorities and Asset Owners.

At Cubis we pride ourselves on delivering technical customer support, new innovation, product quality and the highest levels of customer satisfaction.