



APPLIED INNOVATIVE SOLUTIONS

IN EVERY INDUSTRY, THERE IS A NEED FOR ALTERNATIVE SOLUTIONS AND THINKING. For people and companies that look for truly creative solutions to problems and challenges. These sorts of people and companies are rare, but when one such company is called upon, they can create original and new concepts within their chosen field that not only solve the problem but also, quite often, save their clients vast amounts of time and money. One such company, as its name suggests, is Applied Innovative Solutions (AIS).

Specialising in construction engineering, Applied Innovative Solutions advice was sought by the Builder, Hansen Yunken to resolve the challenge provided by the Commonwealth Law Courts opal building's unusual shape, and the inability for conventional scaffolding to operate effectively or within cost parameters.

Best described as an upside down cone, the opal building required a new and more cost effective form of scaffold that would not only perform to the required standard but was required to span over the 20m sloping wall, without intermittent ties, so the delicate copper cladding interlocking pans can be installed.

AIS approached this challenge from an imaginative angle, utilizing advanced computer aided design software and the creative flair for which they have become well known, they came up with a solution. Designing a scaffold structure that hung suspended from the wall, not only solving the original problem, but also allowing work to continue underneath it.

The structure was constructed from lightweight tubing, purlins and ply. It was designed to conform to the scaffold design code. Created 3 bays wide, the tapered rectangular arrangement when finished and in place provided 9 working platforms, and was nearly half the cost of conventional scaffold. Due to its nature,

the structure was pre-assembled off site and delivered in two sections to site. The two sections were joined and together with the head frame were lifted into position by the site crane.

The answer provided by Applied Innovative Solutions for Hansen Yunken is a good example of their ability to see a challenge from an alternative angle. This ability has served them well on a number of other projects including the Rose & Wine Centre, where they again created an individual scaffolding solution that followed the unusual curves of the centres roof to a height of 20 meters, and traversed on rails.

They have also been involved in the Hindmarsh Island Bridge project where they developed a travelling framework that enabled the developers to lay concrete decks in 33 meter sections and effected significant time and cost savings, this project won an Engineering Excellence Award in 1998. Another of their innovations was a climbing screen that negated the need for conventional scaffolding during the demolition of the 12 storey SAPOL HQ building and again resulted in considerable cost and timesavings for the Demolition Contractor.

AIS and their involvement in the Commonwealth Law Courts have once again demonstrated their unique ability to provide cost effective and imaginative solutions to complex and expensive problems.

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