

# ENGINEERED SAFETY BY ANALYSIS PTY LTD

## Summary

We provide world class, client-focused and cost effective engineering solutions using our expertise in investigative, analytical and computational engineering skills. We strive to deliver safe engineered solutions with excellent project management, maintain interactive communication and executing the strategically-planned project. We strive to deliver the project outcomes within the agreed time-frame.

## Business Summary

Structural Analysis and Failure Analysis	Noise and Vibration Assessment
We carry out works to assess the integrity of structural components using a combination of measurement and computational techniques. We also conduct material and component testing in accordance to AS, ISO and ASTM. We have expertise in advanced engineering computational analysis to analyse the durability of a structural component made from engineering metals, engineering plastics and fibre-reinforced plastics.	We carry out works to assess noise levels in accordance to environmental protection authorities legislations, and noise and vibration measurements in accordance to AS and ISO. We also perform investigations to assess the effects of vibrations on the durability of machine and electrical/electronic components. Furthermore, we will recommend noise and vibration abatement schemes if necessary. We provide cost effective and practical engineered solution to our clients.

## Facilities and Equipment

We use advanced noise and vibration measurement equipment and a range of computer controlled mechanical test machines for our work. Our unique and superior service results from our ability to develop test fixtures and analysis software to suit the needs of each project.

## Expertise

All engineering work is overseen by our Director who is a Chartered Professional Engineer with 25 years of experience in noise and vibration consulting engineering, and structural engineering. He is an Associate Editor of Structural Health Monitoring-An International Journal, Journal of Polymers and Polymer Composites and is a member of the National Committee of Applied Mechanics (Engineers Australia).

## Completed Projects Brief

Expert witness reports in industrial incidents; Engineering failure analysis; On-site testing of engineering structures; Engineered re-design to achieve safer working conditions; Strategic planning of mechanical analysis to achieve safe engineered solutions; Noise survey and noise mapping in manufacturing facilities; Noise monitoring and assessment in accordance to EPA legislations; Noise and vibration measurements to determine human habitability in accordance to ISO; Vibration analysis to identify offending sources and development of abatement strategies; Vibration measurement to ascertain dynamic strains; and much more... striving to achieve safe engineered solutions.

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