

TEST AND EVALUATION CENTRE

An Australian-first, state-of-the-art facility in Knoxfield, Victoria providing simulated testing for Pelican™ cases at the point of manufacture.



PELICAN™ CERTIFIED CASE SOLUTIONS

With over 45 years of experience designing and engineering case solutions for the most diverse and challenging shipment, storage and usage needs, including military deployments and extreme environments, no challenge is too big for our team.

We've taken our unmatched expertise to the next level by building a state-of-the-art testing facility in Australia. The Pelican Test and Evaluation Centre (PTEC) is conveniently located under the same roof as our design and manufacturing facility.

We leverage world-leading capabilities to simulate the most diverse conditions imaginable - including military deployments - plus extreme environments from desert to polar expeditions. We create simulated environmental and mechanical conditions, such as vibration, bounce during transit and free-fall drops.

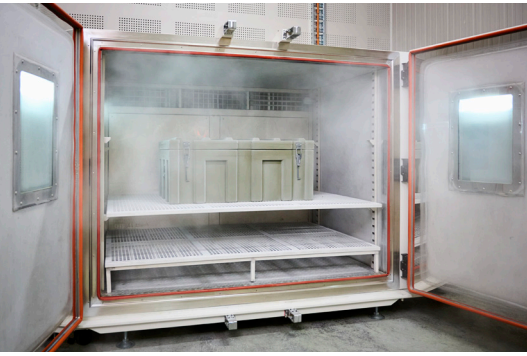
Our robust testing guarantees peak performance across the products' lifespan, ensuring your operations run smoothly and protecting all that you value - through virtually any journey.

HOW IT WORKS



TYPES OF TESTS

The tests conducted at PTEC prevent product failure in the field by modelling common and extreme conditions experienced throughout the product's lifespan.



ENVIRONMENTAL CONDITIONING TEST

- + Controlled temperature testing ranging from - 60°C to + 150°C.
- + Simulated diverse weather conditions from desert to polar environments.
- + Humidity testing between 5% RH and 98% RH across temperature range.
- + Climatic chamber measuring up to 1600mm x 1200mm x 1000 mm (WxHxD).
- + Tested to DEF (AUST) 1000C (other standards applicable upon request).



BOUNCE TEST

- + Frequencies from 2 to 5 Hz (120 - 300 RPM).
- + Simulated military and commercial transport across land, air and sea. For example, loose cargo in wheeled vehicle transit.
- + Testing for articles measuring up to 1900mm x 1140mm (WxD) and weighing up to 200kg.
- + Tested to DEF (AUST) 1000C (other standards applicable upon request).



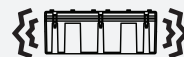
DROP TEST

- + NATO Level 1 testing for complete protection in unpredictable and complex environments.
- + Testing for packages weighing up to 500 kg.
- + Customisable free-fall height from 300 mm to 2000 mm.
- + Simulated military and commercial handling across land, air and sea. Examples include end users, baggage handlers and mechanical handling.
- + Tested to DEF (AUST) 1000C (other standards applicable upon request).



ELECTRODYNAMIC VIBRATION TEST

- + Shock force applied to 100,000 N.
- + Wide frequency spectrum from 3 - 2700 Hz.(Vertical or Horizontal Vibration)
- + For articles up to 1300mm x 1300 mm (WxD). With mass up to 390kg (vertical test) and 430kg (horizontal test)
- + Simulated military and commercial transport across land, air and sea.
- + Sine force and/or Random force applied to 50,000 N.
- + Tested to DEF (AUST) 1000C (other standards applicable upon request).



WATER SPRAY TEST

- + Accommodating test articles up to 5.5m x 2.5m (ambient) or 1.6m x 1.2m x 1m (conditioned).
- + Evaluates an item's resistance to continuous water spray.
- + Simulates exposure to water through events such as natural rainfall or ocean spray.
- + Tested to DEF (AUST) 1000C (other standards applicable upon request)



Contact our PTEC Team for more information about our capabilities.
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