

CAPABILITY STATEMENT

INDUSTRIAL BUILDINGS - AUSTRALIA

CAPABILITY STATEMENT - INDUSTRIAL BUILDINGS

OVERVIEW

Peritas have a long-standing history with industrial buildings across the commercial, logistics and mining markets in Australia. Over the past 13 years, we have delivered in excess of 100 projects ranging from \$1- \$60 million in construction value. The industrial sector is the cornerstone of our business and we are renowned for our cost-effective and lightweight steel designs. We deliver high-quality detailed engineering solutions across a variety of industrial structures.

HAZELMERE INDUSTRIAL PRECINCT WA PERITAS

RECENT PROJECTS:

INDUSTRIAL PRECINCTS ~ 100+ BUILDINGS

HAZELMERE INDUSTRIAL PRECINCT WA
JANDAKOT AIRPORT PRECINCT WA
WELSHPOOL & KEWDALE INDUSTRIAL PRECINCTS WA
MADDINGTON INDUSTRIAL PRECINCT WA

WAREHOUSES

EAGLE FARM DISTRIBUTION CENTRE, QLD
LANG'S CALOUNDRA EXTENSION, QLD
AMAZON DISTRIBUTION CENTRE, RAVENHALL VIC
MCPHEE TRANSPORT, TRUGANINA VIC
DEX HAMMOND WAREHOUSE, DANDENONG VIC
LAVERTON MULTI-USER FACILITY, VIC
APPLETON DOCKS, MELBOURNE VIC
LOT 9 ENDEAVOUR COURT, DANDENONG VIC
TIANQI LITHIUM PROCESSING PLANT, KWINANA WA
ALBEMARLE LITHIUM PROCESSING PLANT, KEMERTON WA

WORKSHOPS

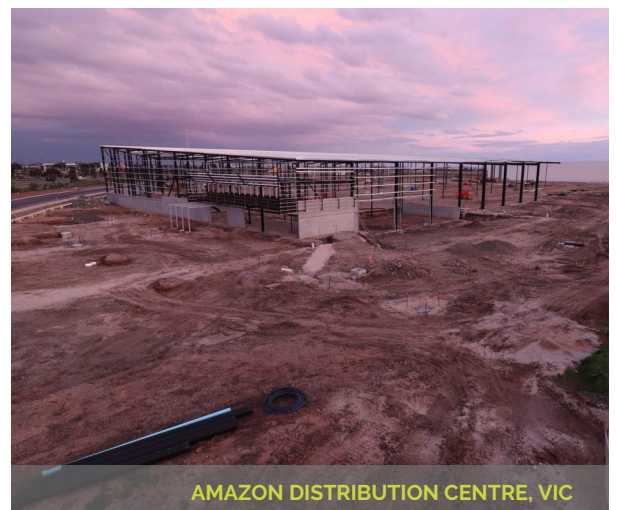
BOOTH TRANSPORT, BURTON SA
BOOTH TRANSPORT, HOPE VALLEY WA
DHL FACILITY, HAZELMERE WA
OCEANEERING, JANDAKOT WA
SCHENK PROCESS, JANDAKOT WA

COLD STORAGE / TEMPERATURE CONTROL

RAND REFRIGERATION, HAZELMERE WA
LION DAIRY & DRINKS, BENTLEY WA
BALDIVIS NEIGHBOURHOOD (AKA SPUDSHED), WA
CHEESE PROCESSING FACILITY, SA



EAGLE FARM DISTRIBUTION CENTRE, QLD



AMAZON DISTRIBUTION CENTRE, VIC

DISCIPLINES

STRUCTURAL & CIVIL DESIGN

- Early budget planning & feasibility.
- Masterplanning.
- Landfill management.
- Preliminary documentation for tenders.
- Concept, schematic and detailed design, documentation.
- Construction support.
- Storm water drainage, management & disposal.
- Flood mitigation & management.
- Temporary Works Engineering

HIGH-PERFORMANCE FLOORS

- PPR Consultation
- Design Review
- Pre-pour Planning & Inspections
- Pour Supervision
- Post-Pour Compliance
 - Flatness & Levelness Testing
 - Abrasion Testing

SCHENCK PROCESS WORKSHOP, JANDAKOT WA

SPECIALIST COMPETENCIES

Pre-Commencement Workshops

- Masterplanning.
- Risk workshops.
- Sustainability assessment.
- Accurate concept design.
- Constructability review.

Drawings & Documentation

Our team are proficient users of BIM Modelling software (REVIT and TEKLA) where we adopt the most recent software versions.

Construction Support & Contract Administration

We provide support throughout the construction phase of projects to ensure compliance is achieved. As queries arise our experienced staff are always available to provide prompt responses to avoid delays on site. For civil based aspects we provide a full engineering service including full-time site supervision, contract administration and superintendence of contracts.

Specialist Analysis

Our capabilities include Finite Element Analysis and Dynamic Response Analysis to ensure we're able to model any structure. Having the latest software our engineers are able to provide cons effective design solutions for any structure.



WORKSHOP, JANDAKOT WA



LOGISTICS WAREHOUSE, VIC

CASE STUDY - INDUSTRIAL

An aerial photograph of a large, modern industrial warehouse. The building has a grey corrugated metal roof with several large rectangular solar panel arrays installed. It is situated next to a multi-lane highway with traffic. A parking lot with several cars is visible in front of the building.

CLIENT

Qanstruct / Dexus

VALUE

\$25 million in construction value.

EXPERTISE

Structural & civil design, documentation and construction support.

TIME FRAME

5 months design.

DISTRIBUTION CENTRE, RAVENHALL VIC

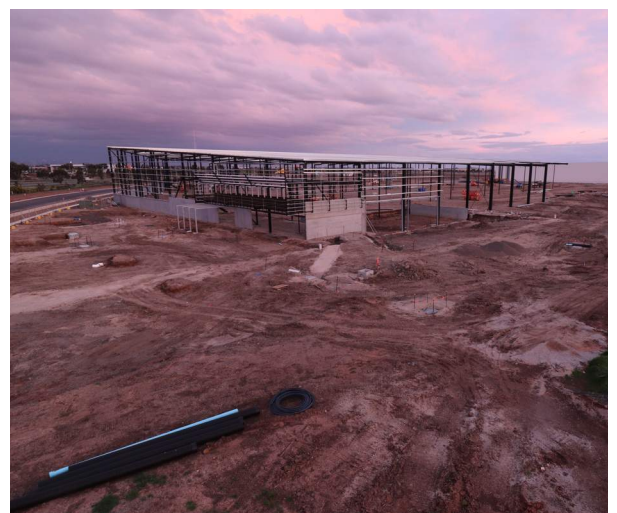
PROJECT NOTES:

Peritas were engaged by Qanstruct to provide an efficient design that would offer our client a competitive edge in the design and construct tender.

Peritas' initial scope was to provide a design for the speculative industrial development. The development consisted of 35,820 m² of warehouse space, 7,580 m² of super canopy and two double storey offices. Multiple scope changes during the construction period, including the change from a standard industrial building to a temperature-controlled facility, presented significant challenges, requiring re-designs to be carried out in parallel with fabrication and construction.

Peritas are proud to have maintained its bespoke level of service and quality, allowing our client to continue with work on site without the need for delays to the construction program. A result which our client was extremely satisfied with.

Peritas are proud to have delivered another successful industrial project with our partner Qanstruct.





CLIENT

Vaughan Construction

EXPERTISE

Structural & civil design, documentation and site supervision.

LOCATION

Edinburgh Parks, SA

DATE

Completion date is set for 2023.

VALUE

\$35 Million

LA CASA DEL FORMAGGIO EDINBURGH PARKS, SA

PROJECT NOTES:

Peritas was engaged to provide structural and civil engineering design & documentation on this 10,000sqm food processing facility for La Casa Del Formaggio in Edinburgh Parks, SA,

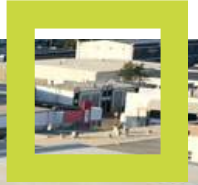
The purpose-built production facility is nearing completion & will see La Casa Del Formaggio meet the growing demand for its fresh cheese and dairy products in Australia and expand into new export markets.

The new facility includes 1,600m² office space, 3,930m² of temperature-controlled production area, 1,775m² of chilled and ambient storage area and 7,260m² of external concrete pavement. 1,012m² of external plant area consisting of milk storage tanks, fuelling station, boiler equipment and trade waste tanks were also included.

Peritas are proud to have delivered another successful cold storage & food processing facility.



CASE STUDY - INDUSTRIAL



CLIENT

Tomkins Commercial & Industrial Builders

VALUE

\$6 million in estimated construction value.

EXPERTISE

Structural design, documentation and construction support.

TIME FRAME

2 months design.



CULLEN AVE, EAGLE FARM QLD

PROJECT NOTES:

Peritas were engaged by Tomkins to provide an efficient schematic design that would offer our client a competitive edge in the design and construct tender.

Peritas' project scope was to design a 3,145 m² industrial building, with 390 m² of double-storey office space. The warehouse building was to be designed to provide the end client with the option to install a 10 tonne overhead crane in the future.

Peritas focused on efficiency, constructability and sustainability when preparing our design. This allowed the contractor to achieve cost savings through reduced material required and reduced labour costs due to minimizing time on site.

Construction work has recently commenced on site and Peritas look forward to successfully delivering another successful industrial project.



CASE STUDY - INDUSTRIAL



CLIENT

Jandakot Airport Holdings (JAH)

VALUE

\$20 million in construction value.

EXPERTISE

Structural design, documentation, 3D BIM Modelling and construction support.

TIME FRAME

4 months design.

SCHENCK PROCESS , JANDAKOT WA

Peritas provided expert structural design and documentation, 3D BIM Modelling and construction support for this state of the art facility custom designed for the relocation of a large scale mining services tenant.

Peritas' involvement began by assisting the contractor to refine, and successful bid for this state of the art facility by preparing preliminary designs and quantities.

Upon award, Peritas consulted key project stakeholders (tenant, owner, contractor, architect and consultant team) to formulate requirements and ensure the design concept addressed key operational issues and was efficient, yet compliant.

The development included a large scale heavy-duty workshop with 2x 20t gantry cranes, extensive hardstand and an administration building with 200+ car bays.

Peritas are proud to have been PS Structures engineer for another successful project in Jandakot.



CASE STUDY - INDUSTRIAL



CLIENT

Vaughans Construction

VALUE

\$25 million in construction value.

EXPERTISE

Structural & civil design, documentation and construction support.

TIME FRAME

4 months design.

MCPHEE TRANSPORT FACILITY, TRUGANINA VIC

PROJECT NOTES:

Peritas were again engaged by Vaughan Construction after the successful completion of the Dex Hammond project in Dandenong for a project with a long-term client McPhee Transport.

This 30,700sqm transport facility boasts a 30,000sqm fibre-reinforced internal ground slab, 27 roller doors, ten loading docks, a 3,500sqm bitumen carpark, a 34 metre-wide super canopy and finally 12,600sqm of heavy-duty concrete hardstand.

During the design and construction period, Victoria was in lockdown due to the global pandemic, which presented significant challenges.

Excellent teamwork saw a tight program achieved allowing the customer to gain early access so that its Melbourne-based operations were not disrupted.

Peritas are proud to have provided civil and structural engineering design, documentation and construction support to Vaughans.



CASE STUDY - INDUSTRIAL



CLIENT

Hodgson Group.

EXPERTISE

Structural & civil design documentation & site supervision.

LOCATION

33 Clifford St, Maddington WA 6109

BUNNINGS DISTRIBUTION CENTRE, MADDINGTON WA

PROJECT NOTES:

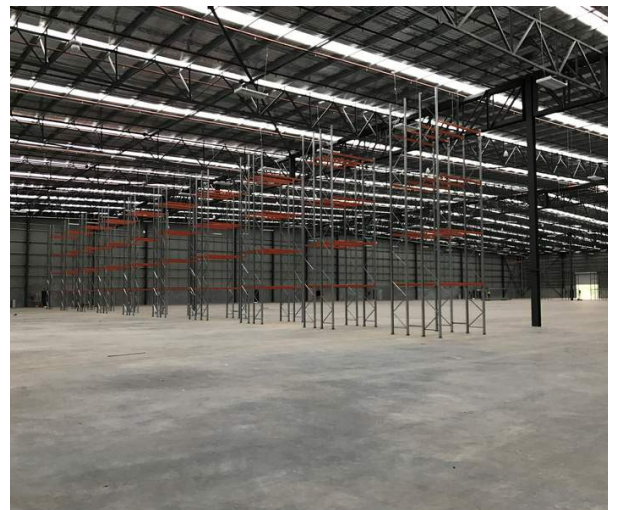
The continuous improvement approach at Peritas has continued to pay dividends to our long standing client for this Bunnings Distribution Centre.

30,000m² of crack free ground slabs with 35x35m armored joints and zero saw cuts was an innovative design devised in conjunction with the steel fibre supplier.

Further to that, joint-less ground slab construction was utilised on the loading dock hardstand to further minimise maintenance at this facility. 15m cantilever canopies to each side of the warehouse provided challenges for wind dynamics design which was accounted for by our experienced engineers.

Bunnings had concerns over the curing method adopted on the slab due to previous experience of line marking deteriorating. We worked with the builder to adopt the traditional method of water curing with hessian.

Bunnings has commented that the slab produced was one of the better slabs that they have seen. Peritas are proud to be a part of another successful Bunnings industrial project.



CASE STUDY - INDUSTRIAL

CLIENT

Hodgson Group.

VALUE

\$26 million in total construction value.

EXPERTISE

Structural & civil design, documentation and site supervision.

TIME FRAME

6 months design across various stages.

WEST GATE DRIVE MULTI-USER FACILITY, LAVERTON VIC

PROJECT NOTES:

A long term client of Peritas engaged us to deliver a warehouse and office development in Laverton North. This includes the following:

- Building 1 - Canopy Extension.
- Building 2 - 14,000m² food processing facility.
- Building 3 - 12,000m² of logistics facility,
- Building 4 - 7,300m² extension to logistics facility.
- Building 5 - 9,600m² logistics facility.
- Building 6&7 - 50,000m² transport & logistics facilities.

We utilised our design philosophy and connection details that were refined over many years with this client to provide an efficient and timely design.

During construction, it was evident that rock existed close to the surface. We worked with the builder to develop rock anchoring techniques to minimise rock excavations yet provide the tie-downs that the structure demanded.





CLIENT

AAT

VALUE

\$3.5 million in construction value.

EXPERTISE

Structural design, documentation and site supervision.

LOCATION

Shed D, Appleton Dock Road, West Melbourne, VIC

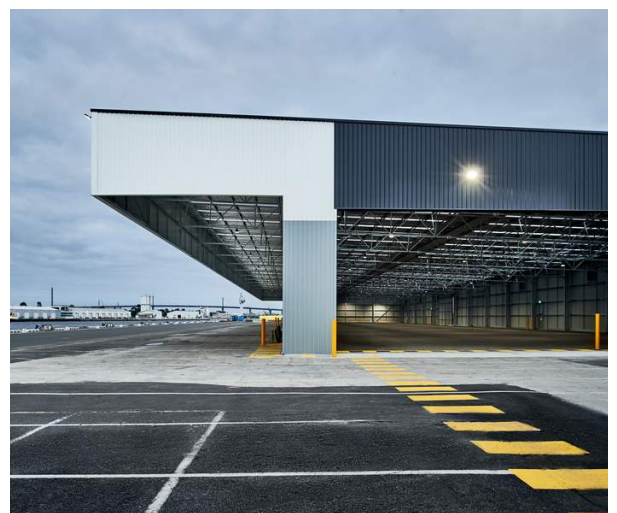
APPLETON DOCKS LOGISTICS FACILITY, MELBOURNE VIC

PROJECT NOTES:

Peritas was engaged to provide structural and civil engineering design, documentation and site supervision on this 6,000sqm logistics storage facility at the Appleton Docks in Melbourne.

With cost saving in mind, we reused existing concrete retaining walls to reduce the foundation costs. We also minimised footing excavation, thus costs associated with contaminated soils work.

The building includes an effortless 35m clear span, as well as an 8m cantilever awning facing the port.



CASE STUDY - INDUSTRIAL



CLIENT

Linc Property & Gibb Group

VALUE

\$15 million in construction value.

EXPERTISE

Structural design, documentation and site supervision.

MATERIALS

Steel fiber reinforced ground slab, Fibre/mesh combi hardstand & structural steel superstructure.

TIME FRAME

1 month design

SILK LOGISTICS, ROE HIGHWAY LOGISTICS PARK WA

PROJECT NOTES:

Peritas were engaged by a design and construct builder to provide the structural design on the new Silk Logistics facility in the recently created Roe Highway Logistics Park.

The site was challenging due to a perched ground water level and a mixture of clay and sand soils. Peritas modified site drainage conditions to assist in dissipating ground water. The loading dock level is below ground water level and thus was designed as a water retaining structure with redundancy built in.

Structural steel was minimised with an efficient design as is standard practice at Peritas. Part of the warehouse incorporates storage for dangerous goods, where concrete panels were used to provide protection.

Internal floors were designed using steel fibres with large panels and no saw cuts. All joint edges were protected with armor edging which will minimise maintenance for the owner.

This project was a highly successful project for all involved and is a perfect example of Peritas expertise and experienced being utilised to their fullest.



CASE STUDY - INDUSTRIAL



CLIENT

Vaughan Construction

VALUE

\$5 million in construction value.

EXPERTISE

Structural design, documentation and construction support.

TIME FRAME

2 months design.

DEX HAMMOND, DANDENONG VIC

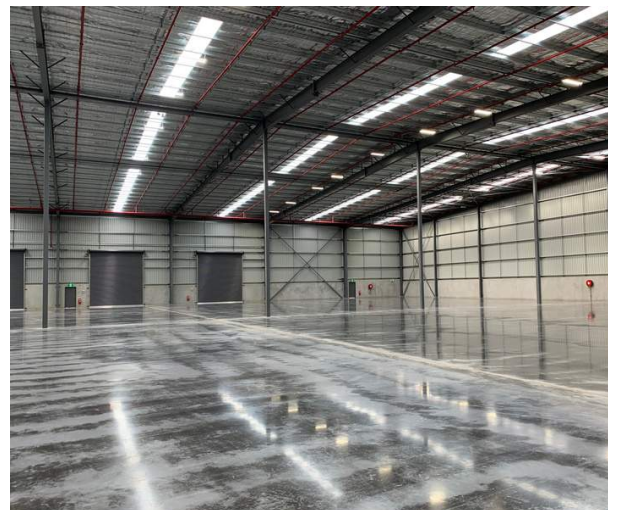
PROJECT NOTES:

Consisting of a 5000m² Warehouse and a 400m² Office, This project allowed Peritas to showcase our extensive experience in the efficient design of industrial buildings.

The soil conditions were typical of the area with reactive clays throughout. Careful management of subsoil moisture allowed our engineers to specify large panels of fibre reinforced ground slabs with armor edging.

The office consisted of a typical steel frame supported on a stiffened raft ground slab.

The cantilever canopy over the roller doors extends an impressive 12m from the side of the building. This is supported off the portal frames which are supported with a single prop column at the centre of the 64m wide warehouse.



CASE STUDY - INDUSTRIAL PRECINCTS



CLIENT

Hogeson Group

VALUE

\$250 million in total construction value.

EXPERTISE

Structural & civil design, documentation and site supervision.

HAZELMERE INDUSTRIAL PRECINCT, WA

PROJECT NOTES:

Peritas have been the structural and civil designers for a majority of the buildings in Hazelmere Industrial Precinct since 2008. We've provided structural design on 15 buildings with a total area of approximately 250,000m².

Buildings range from warehouse to workshop to cold storage and distribution facilities, a few include:

- Ceva Warehousing
- Rand Refrigeration - Cold Storage
- Chevron / Toll Energy Logistics
- Bunnings Trade
- Mainfreight Logistics
- Centurion
- Whites Group
- Wridgways Logistics
- The Reject Shop
- Total Furniture Logistics
- Austrans

Peritas have also completed similar industrial precincts at:

- Jandakot Airport
- Maddington
- Kewdale
- Welshpool
- Kenwick Link - Roe Highway Logistics Park

Bunnings Trade



Mainfreight



Rand Refrigeration



Ceva Logistics



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