



# CAPABILITY STATEMENT

## INDUSTRIAL BUILDINGS



# 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 11 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 PERITAS

## RECENT PROJECTS:

### INDUSTRIAL PRECINCTS ~ 100+ BUILDINGS

- HAZELMERE INDUSTRIAL PRECINCT
- JANDAKOT AIRPORT PRECINCT
- WELSHPOOL & KEWDALE INDUSTRIAL PRECINCTS
- MADDINGTON INDUSTRIAL PRECINCT
- ROE HIGHWAY LOGISTICS PARK
- TONKIN HIGHWAY INDUSTRIAL PARK

### WAREHOUSES

- TIANQI LITHIUM PROCESSING PLANT, KWINANA WA
- ALBEMARLE LITHIUM PROCESSING PLANT, KEMERTON WA
- LAVERTON MULTI-USER FACILITY, VIC
- MCPHEE TRANSPORT, TRUGANINA VIC

### WORKSHOPS

- DHL FACILITY, HAZELMERE WA
- OCEANEERING, JANDAKOT WA
- SCHENK PROCESS, JANDAKOT WA
- UTILITIES BUILDING, CAPE LAMBERT, RIO TINTO

### BULK STORAGE

- MINERAL SANDS STORAGE FACILITIES, WA
- CBH GRAIN STORAGE, GERALDTON PORT WA
- APPLETON DOCKS, MELBOURNE VIC

### COLD STORAGE / TEMPERATURE CONTROL

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



BUNNINGS DC, MADDINGTON WA



UTILITIES BUILDING, CAPE LAMBERT



## 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

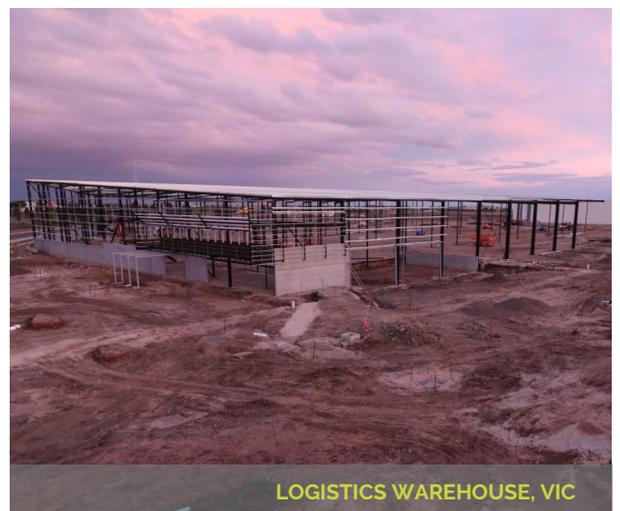
We provide support throughout the construction phase of projects to ensure compliance is achieved. As queries arise our experienced staff are always available to provide prompt responses to avoid delays on site. For civil based aspects we provide a full engineering service including full-time site supervision, 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 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 250,000m<sup>2</sup>.

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



# CASE STUDY - INDUSTRIAL PRECINCTS



## CLIENT

Jandakot Airport Holdings Pty Ltd

## VALUE

\$200 million in total est construction value.

## EXPERTISE

Structural & civil design, documentation and site supervision.

## JANDAKOT PRECINCT - WA

### PROJECT NOTES:

Peritas have been the structural and civil designers for a large number of the industrial buildings in Jandakot Airport's Industrial Precinct. Since 2010 we've provided structural design on 15 buildings with a total area of approximately 200,000m<sup>2</sup>.

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

- Oceaneering Workshops, Warehouses & Office
- Schenk Process, Workshop & Office
- Western Diagnostics Office & Warehouse
- West Coast Energy Office & Warehouse
- RFDS Jandakot Hanger & Office
- Aveiling Offices
- GE Hardstand Facility
- MRC Global - Crane Installations

We continue to provide engineering services to the developer, builders and tenants at these facilities.



Oceaneering



Schenk Process



Western Diagnostics



West Coast Energy



### 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

Linc Property & Gibb Group

### VALUE

\$9 million in approx construction value.

### EXPERTISE

Structural design, documentation and construction support.

### TIME FRAME

1 month design.

## EXPRO WORKSHOP & OFFICE, ROE HIGHWAY LOGISTICS PARK WA

### PROJECT NOTES:

Peritas provided civil and structural engineering design documentation & construction supervision for the Expro's Workshop & Office facility at Roe Highway's Logistic Park, Kenwick.

Whilst the project had tight deadlines, Peritas fastracked the design to ensure the D&C builder was able to completed their build on time and on budget without incident or injury.

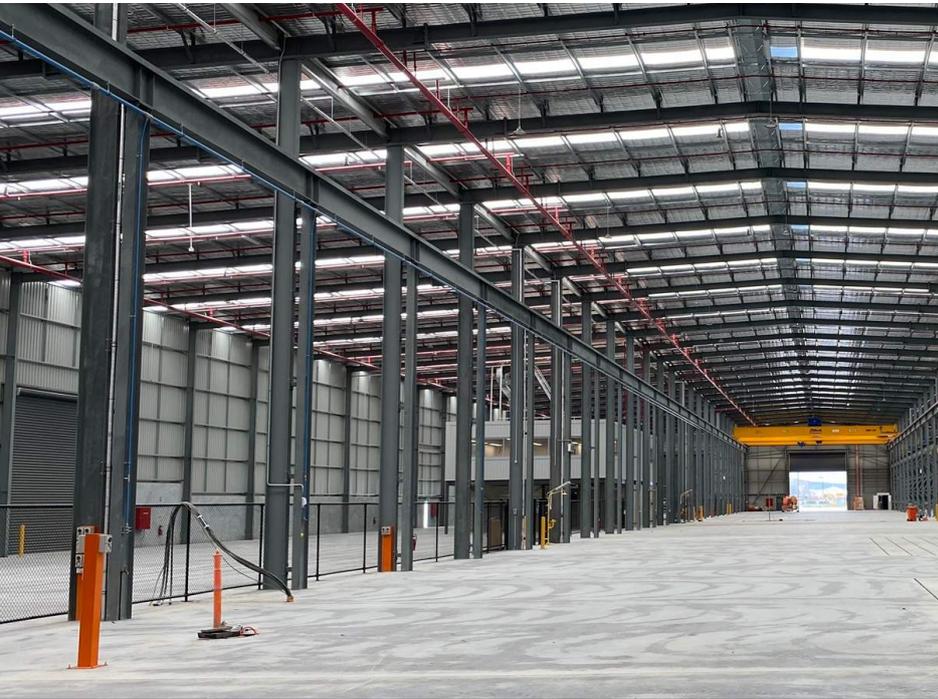
Expro's facility houses tests bays, laboratories, overhead gantry cranes and heavy duty hardstands to provide a quality facility for an oil and gas services company.

Peritas also provided consultation on future expansions opportunities to the builder as Expro's business grows.

We're proud to have provided another bespoke building to the RHLP estate.



## 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

Hodgson Group.

### EXPERTISE

Structural & civil design documentation & site supervision.

### LOCATION

33 Clifford St, Maddington WA 6109

## BUNNINGS DISTRIBUTION CENTRE, MADDINGTON WA

### PROJECT NOTES:

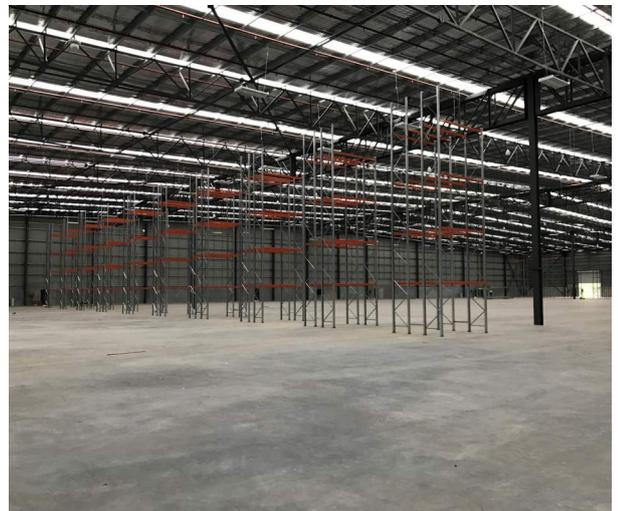
The continuous improvement approach at Peritas has continued to pay dividends to our long standing client for this Bunnings Distribution Centre.

30,000m<sup>2</sup> 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

\$15 million in construction value.

### EXPERTISE

Structural design, documentation and construction support.

### MATERIALS

Structural aluminium.

### TIME FRAME

2 months design.

## UNITRANS WAREHOUSE ADAMS DRIVE, WELSHPOOL WA

### PROJECT NOTES:

Peritas were requested to achieve a high springing clearance, a low maximum roof height (by modern standards) and a 30m x 30m column grid. Consequently our engineers decided on using a traditional portal frame supported by girder trusses.

To achieve an efficient design, we carefully considered the wind loading, taking into account the orientation of the building and its surrounding region. Once confident of the correct loading as per the Australian Standard for wind load, we modelled the entire building in 3 dimensions in our advanced structural analysis software. This allowed us to minimise all structural sections to the most efficient, yet compliant size.

The structural internal slab consists of large fibre reinforced panels with no saw cuts. Every floor joint is reinforced with armor edging to guarantee minimum maintenance for the owner and maximum performance for the occupier.

A stable soil base allowed us to utilise efficient pad footings to support the structure.





### 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 5000m<sup>2</sup> Warehouse and a 400m<sup>2</sup> 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.





### CLIENT

Tianqi Lithium

### EXPERTISE

Structural & civil design documentation  
& site supervision.

### LOCATION

61 Donaldson Rd, Kwinana Beach WA  
6167

## LITHIUM PROCESSING PLANT, KWINANA WA

### PROJECT NOTES:

Peritas were engaged by Kerman Contracting to provide competitive design solutions for the non-process infrastructure at the Tianqi Lithium processing plant.

Peritas worked with Kermans to develop an innovative design for tender purposes and then worked closely with the construction team to deliver the building designs seamlessly.

The design consisted of 4 buildings with a combined square meterage of 10,500 m<sup>2</sup>.

Peritas have a long association with NPI and materials handling projects and this expertise provided fruitful for all involved.





### EXPERTISE

Structural design, documentation and site supervision.

### LOCATION

634 Karel Ave, Jandakot WA 6164

## OCEANEERING, JANDAKOT WA

### PROJECT NOTES:

Peritas worked with the successful design and construct contractor during the tender phase to propose an efficient steel and concrete structure.

The three workshops house a 100 tonne gantry crane, two 10 tonne gantry cranes and also incorporate a double-storey office structure.

The result is a successful project that meets the highest quality standards and satisfies all relevant stakeholders.

Since the development we have worked on several successful projects with the same team,

Peritas are proud to have provided cost saving methods through the tender and efficient documentation through out the design phases.



## CASE STUDY - INDUSTRIAL



QUBE LOGISTICS FACILITY, ROUS HEAD WA

### CLIENT

Q Design & Construct  
Ahrens Group  
Credentia Construction

### VALUE

\$25 million in total construction value.

### EXPERTISE

Structural & civil design, documentation and site supervision.

### TIME FRAME

2 months design.

## VARIOUS FACILITIES ROUS HEAD, FREMANTLE WA

Peritas have provided civil and structural engineering design, documentation and construction support to a number of successful projects at Rous Head.

We were engaged because of our extensive experience with the design of non-corrosive materials and areas with high wind.

**Qube Logistics Facility** - \$5 Million in construction value.

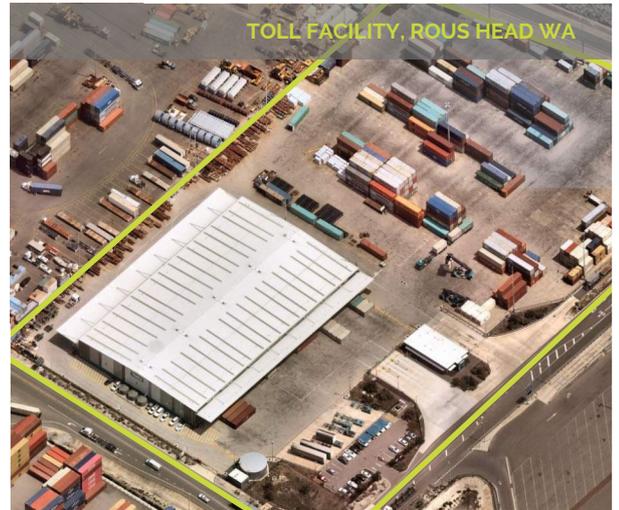
- 6,500m<sup>2</sup> Warehouse
- 2,000m<sup>2</sup> Asphalt hardstand

**Toll Facility** - \$10 Million in construction value.

- 6,000m<sup>2</sup> Warehouse
- 25,000m<sup>2</sup> Concrete hardstand

**Qube Area C Facility** - \$10 Million in construction value.

- 400m<sup>2</sup> Two storey office
- 60,000m<sup>2</sup> Asphalt hardstand
- 1,000m<sup>2</sup> warehouse

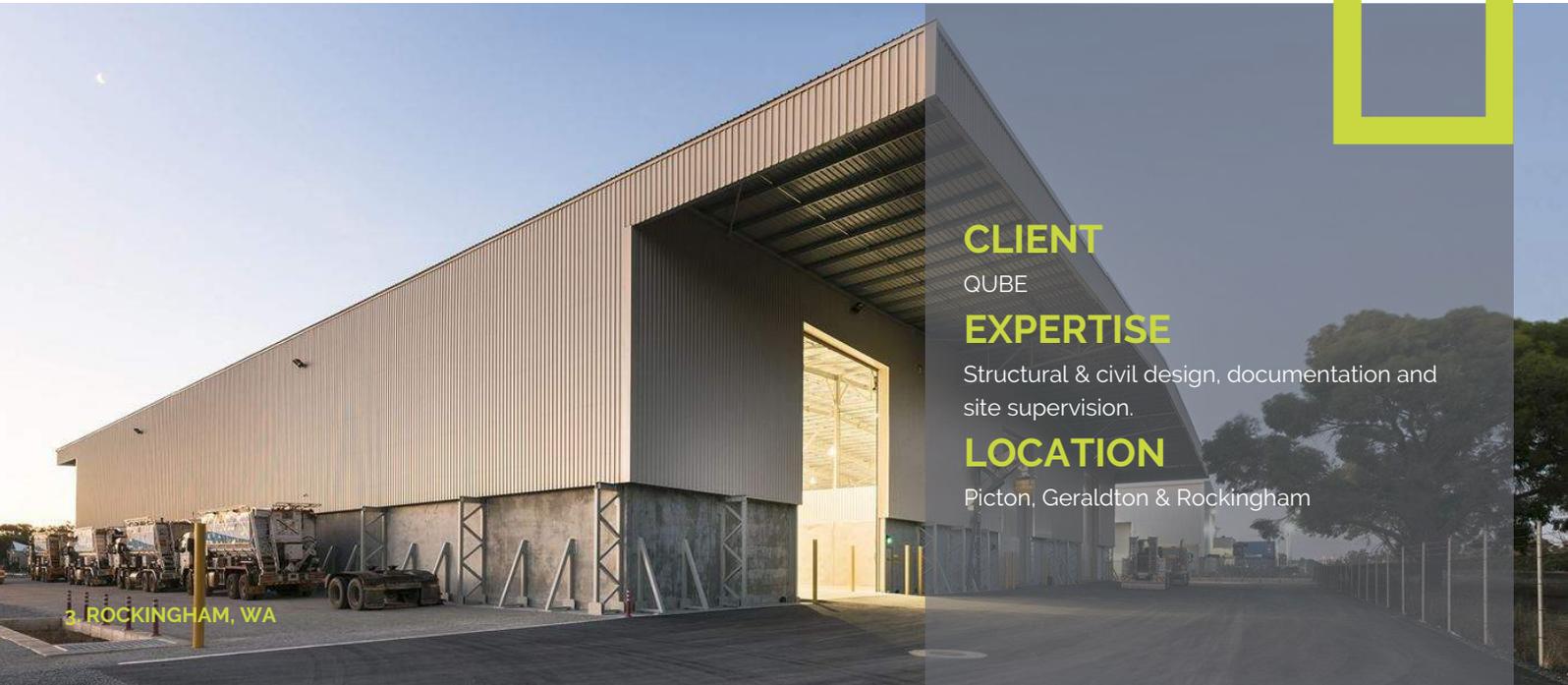


TOLL FACILITY, ROUS HEAD WA



QUBE AREA C FACILITY, ROUS HEAD WA

## CASE STUDY - INDUSTRIAL



### CLIENT

QUBE

### EXPERTISE

Structural & civil design, documentation and site supervision.

### LOCATION

Picton, Geraldton & Rockingham

3. ROCKINGHAM, WA

## STORAGE FACILITIES, WA. PICTON, GERALDTON & ROCKINGHAM

### PROJECT NOTES:

The first of these three projects was built in Picton, Bunbury WA which is a 5,000sqm, 15m-high bulk storage warehouse that comprised of 6 individually separated cells. The facility included 4m-high tilt up concrete retaining walls, steel framed and cladded to dust proof each cell from cross contamination.

Next came Geraldton, where Peritas refined the design to incorporate a more efficient building layout and precast panels supported by structural steel columns. This 15m-high, 5,000sqm facility comprises of 6 individually separated cells

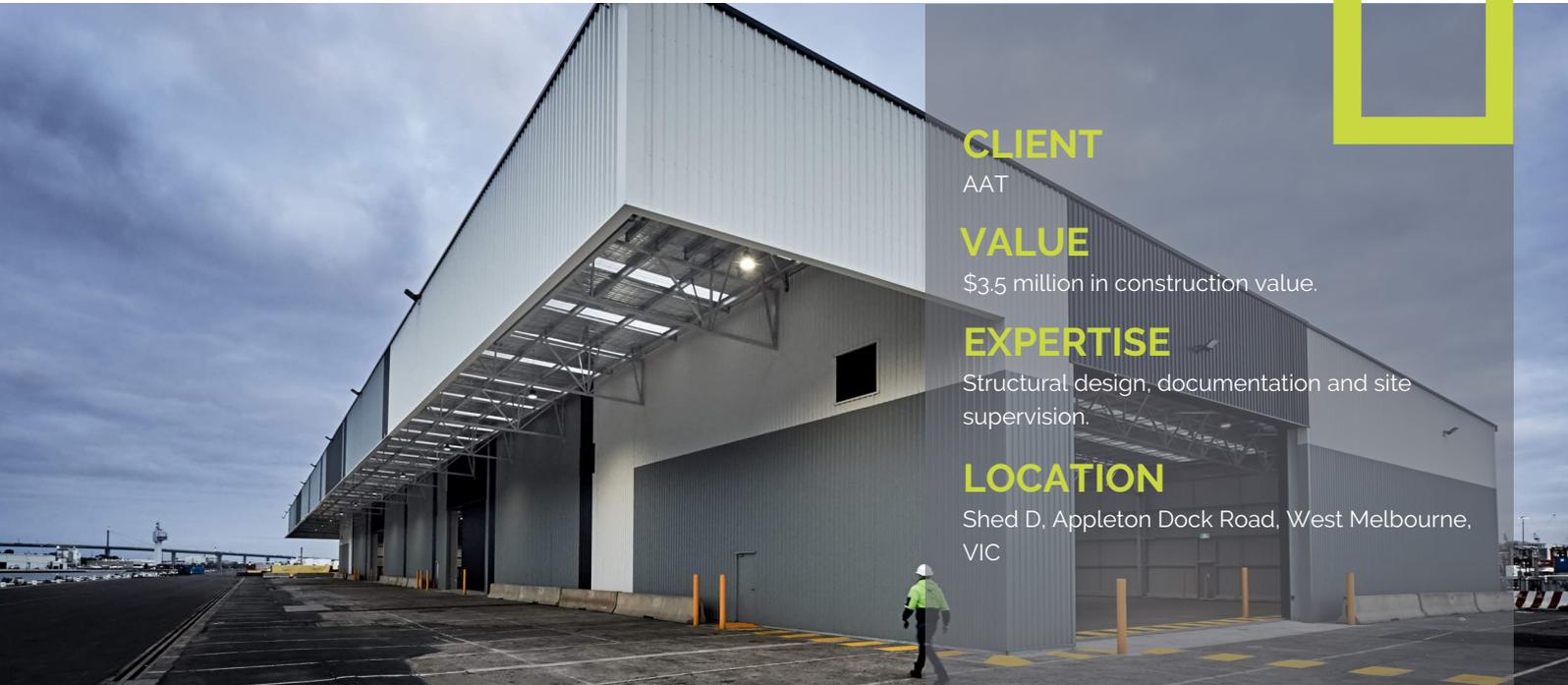
Finally Rockingham was designed to combine the best of the previous two structures. A 5,000sqm bulk storage facility to retain fertiliser materials. This included over 2,000sqm of concrete in the floor and 4m-high, 170mm thick concrete precast retaining walls that supported the steel superstructure.

Our continual improvement approach was again on display and has contributed to successful projects for all stakeholders.



2. GERALDTON, WA





### 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.





### CLIENT

Jandakot Airport Holdings

### EXPERTISE

Structural & civil design  
documentation & site supervision

### LOCATION

3 Eagle Drive, Jandakot WA

## RFDS, JANDAKOT WA

### PROJECT NOTES:

Peritas provided civil and structural engineering services to a D&C builder for the development of the Royal Flying Doctor Service Hanger & Office in Jandakot WA.

A 40m wide opening to the front of this hangar provides unimpeded access for the jet aircraft to access the large-span hangar floor.

Our engineers precambered the vertical door header truss to provide a sag-free door head to the significant sliding doors.

Combined with our efficient steel design, this project was a success, being both on time and budget for the builder and client. Peritas are proud to have implemented cost-saving design methods through the design process.





# CONTACT DETAILS

---

## PERTH

P: +61 8 6336 9299  
E: [enquiries@peritasgroup.com.au](mailto:enquiries@peritasgroup.com.au)  
A: 74 Goodwood Parade, Burswood WA 6100

## MELBOURNE

P: +61 3 8657 9292  
E: [enquiries@peritasgroup.com.au](mailto:enquiries@peritasgroup.com.au)  
A: Suite 704, 1 Queens Road, Melbourne VIC 3004

## BRISBANE

P: +61 3 8657 9292  
E: [enquiries@peritasgroup.com.au](mailto:enquiries@peritasgroup.com.au)  
A: Level 38, 71 Eagle Street, Brisbane QLD, 4000

## NEW BUSINESS ENQUIRIES

Attention: Matt Waring - Business Development Manager  
E: [mwaring@peritasgroup.com.au](mailto:mwaring@peritasgroup.com.au)  
P: +61 477 990 171

[www.peritasgroup.com.au](http://www.peritasgroup.com.au)