

# CAPABILITY STATEMENT

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HIGH-PERFORMANCE FLOORS



### OVERVIEW

Peritas is dedicated to using its extensive experience in the industrial market to scope, plan, design, supervise, certify and maintain structural concrete slabs. Owners and operators must have input to this process as their needs drive the most appropriate solution to what is the most important investment in an industrial or commercial facility. Technology advancements have driven changes in the logistics market whereby automation is increasingly used. Facilities must be future-proofed to meet the requirements of tomorrow's tenants.

HAZELMERE INDUSTRIAL PRECINCT PERITAS

### 1 SCOPING & DESIGN

- SCOPE REVIEW & ADVISORY
- DESIGN TO T48, TR34 & FIBRES
- THIRD PARTY DESIGN REVIEW
- MIX DESIGN REVIEW & ADVISORY SPECIFICATION
- SUBGRADE INSPECTION



### 2 SUPERVISION

- SURVEY OF SUBBASE
- SUPPLY & POUR SUPERVISION
- FINISHING SUPERVISION



### 3 CERTIFICATION

- ABRASION TESTING
- FLOOR FLATNESS TESTING
- FLOOR LEVELNESS TESTING

### 4 MAINTENANCE

- REGULAR INSPECTIONS
- CRACK DIAGNOSIS & REPAIR
- JOINT MAINTENANCE





### 1 SCOPING & DESIGN STAGE

Prior to construction, Peritas offer project scope review, design and third party review to ensure owners have the appropriate solution for their facility & are future-proofed for tomorrow's tenants.

DEX HAMMOND, VIC

### THIS INCLUDES:

#### SCOPE

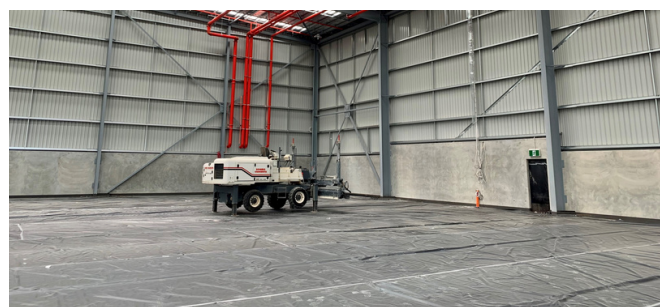
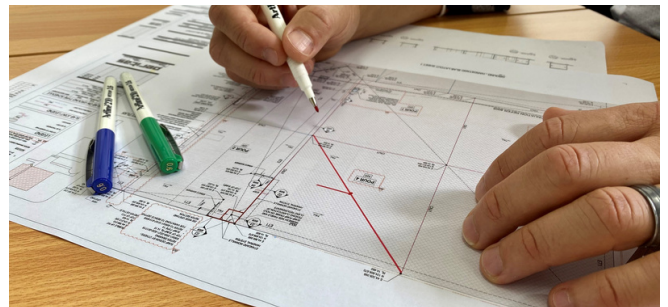
- Workshop current and future operational requirements.
- Confirm the floor loading requirements.
- Incorporate recommended wording into PPR or brief document.

#### DESIGN

- Review of the geotechnical report.
- Select appropriate structural solution including subgrade preparation and subbase.
- Design calculations to relevant industry standards.
- Confirmation of appropriate panel and pour sizes according to supply and placing resources.
- Conduct third-party reviews of designs by others.
- Mix design review and recommendations.

#### PRE-POUR INSPECTION

- Compaction (CBR) testing.
- Survey of the subgrade.
- Membrane inspection,
- Reinforcement and joint inspection.
- Confirmation of adequate isolation.



### 2 SUPERVISION STAGE

Peritas offer independent pour supervision services to ensure the contractor's works meet the requirements of the brief, design drawings & specifications.

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### THIS INCLUDES:

#### FIRSTLY

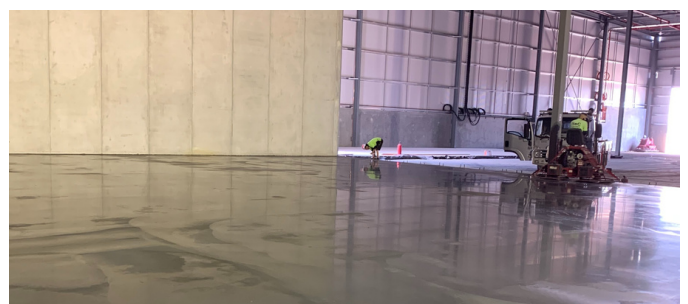
- Supervision of contractor QA processes,

#### SECONDLY

- Attend each concrete pour to supervise the concrete placement & ensure design compliance,
  - Concrete Mix
  - Fibre Dosage
  - Air Content
  - Time Limits
  - On-site additives
- Perform slump testing to ensure water to cement ratio is within the target band,
- Ensure rutting of the subbase remains below required levels,
- Ensure all reinforcement remains in place and within correct tolerance,
- Ensure all dowels remain in place and within correct tolerance,
- Conduct independent concrete cylinder tests.

#### FINALLY

- Visual inspections of finishing timing & methodology.





### 3 CERTIFICATION STAGE

Peritas offer post-pour compliance certification to validate that the floor meets the requirements set out in the brief. The aim of this testing is to confirm that the slab will be functionally fit for purpose (is flat and level) and will be durable for its life against wear. Flatness and levelness testing is confirmed to ensure that the slab meets the operational requirements for racking, forklifts or any automated robotic equipment. Abrasion resistance testing confirms that the slab is hard enough to resist the wearing effects of vehicles traversing the slab. Peritas will also inspect post-pour concrete strength testing to ensure that the concrete grade meets or exceeds the requirements set out in the design.

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### THIS INCLUDES:

#### ABRASION RESISTANCE TESTING

- Accelerated abrasion testing is carried out in accordance with BS EN 13892-4:2002.
- The results of the testing allows us to classify the floor in accordance with BS 8204-2, which will provide a guide as to the ability of the floor to resist wear from traffic thus the life of the floor.



#### FLATNESS TESTING

- Tested in accordance with TR34, DIN or the American F-number specifications.
- A flat floor is a requirement of the safe installation of racking and will result in the more efficient running of vehicles.



#### LEVELNESS TESTING

- Similar to flatness testing, a level floor will ensure that racking can be installed and MHE can operate safely and efficiently.
- By specifying the requirements at the early stage and supervising adequately the process is de-risked.



### 4 MAINTENANCE

To maintain the performance and lifespan of your concrete slab, Peritas recommend annual inspections, crack monitoring and remedial diagnosis & repair where required. Peritas offer maintenance services to ensure the lifecycle of the project is maximised and any remedial works are undertaken with the highest care.

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### THIS INCLUDES:

#### SLAB INSPECTION

Peritas will perform a thorough visual inspection to ensure that joints are performing per design and diagnose cracking early to allow remediation before costly deterioration occurs.

#### JOINT MAINTENANCE

- Thorough Clean Out
- Quality re-sealing

#### CRACK MANAGEMENT

- Diagnose and repair Internal and external concrete slabs

#### DEFECTS, DIAGNOSIS & REPAIR

Peritas are certified to consult on slab warranty issues and rectification, thus inspecting prior to warranty expiration is highly recommended.





# CONTACT DETAILS

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## NEW BUSINESS ENQUIRIES

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