

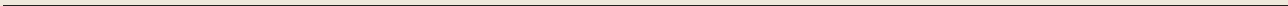


VADUM

NEWCASTLE · SYDNEY



CAPABILITY STATEMENT



Vadum is a structural engineering consultancy working across Newcastle and Sydney. We take on design, assessment and certification work, from a single beam to a complete structure.

The experience behind the practice spans residential, industrial and infrastructure work. At one end that is renovation design, footing inspections and construction-stage attendance. At the other it is warehouse and industrial structures, substation footings and switchrooms, bridge analysis and load rating, and materials handling plant. A lintel over a garage opening and a transfer tower are the same problem at different scales, and every job gets the same judgement.

Heavy industry also teaches habits that do not switch off on smaller work. Loads are assessed rather than assumed. Structures often have to be evaluated while they stay in service, and an optimistic assumption is expensive to unwind. On a smaller job, that means a design checked against the way it will actually be built. It also means an early phone call when the drawings and the site disagree.

The engineer who takes your first call is the engineer who designs the work and issues the drawings. There is no handover once the fee is agreed and no rotating point of contact.

Vadum is Latin for a ford. The shallow place where a river can be crossed.



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Design

Footings, framing, retention, new structures and alterations to existing ones.

We design in steel, reinforced concrete, masonry and timber, and we size the analysis to the problem: a hand calculation where that settles it, a model where it does not. A finite element model is a tool for the cases that need one. It is not a substitute for understanding where the load goes.

CAPABILITY

- Reinforced and post-tensioned concrete
 - Structural steel framing, bracing and connections
 - Masonry and timber framing
 - Pad, strip, raft and piled footings
 - Retaining structures
 - Temporary works and propping schemes
 - Openings and alterations in existing structure
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Assessment

Inspections, condition reporting and adequacy assessment of existing structures.

Existing structures are rarely built exactly as they were drawn, and many were never drawn at all. So assessment starts with what is actually there: measured on site, not inferred from a drawing set that may record an intention rather than an outcome.

CAPABILITY

- Structural condition inspection and reporting
 - Adequacy assessment against current standards
 - Capacity assessment of undocumented structure
 - Defect investigation and cause analysis
 - Remedial and strengthening design
 - Pre-pour footing and construction-stage inspection
 - Dilapidation survey
 - Monitoring regimes and periodic review
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Certification

Documentation and sign-off arranged to suit the approval pathway your project requires.

We confirm the approval pathway before the work starts, not at lodgement. How the documentation is prepared depends on what a given authority will accept, in what form and from whom. We settle that first.

Where certification must be issued by a registered practitioner, we arrange it through a suitably registered engineer. We say so at the outset, and set out what it means for the programme and the fee. The alternative is a project that reaches the approval stage and stalls there.

CAPABILITY

- Documentation prepared for the nominated approval pathway
- Compliance statements against the standards nominated for the work
- Certification arranged through a suitably registered engineer where registration is required
- Construction-stage inspection and records
- Coordination with the certifier and the approval authority
- Design intent statements issued for construction



EXPERIENCE BY SECTOR

RESIDENTIAL & INSPECTION

Structural design for renovations and alterations, together with pre-pour footing inspections and construction-stage site attendance.

TEMPORARY WORKS

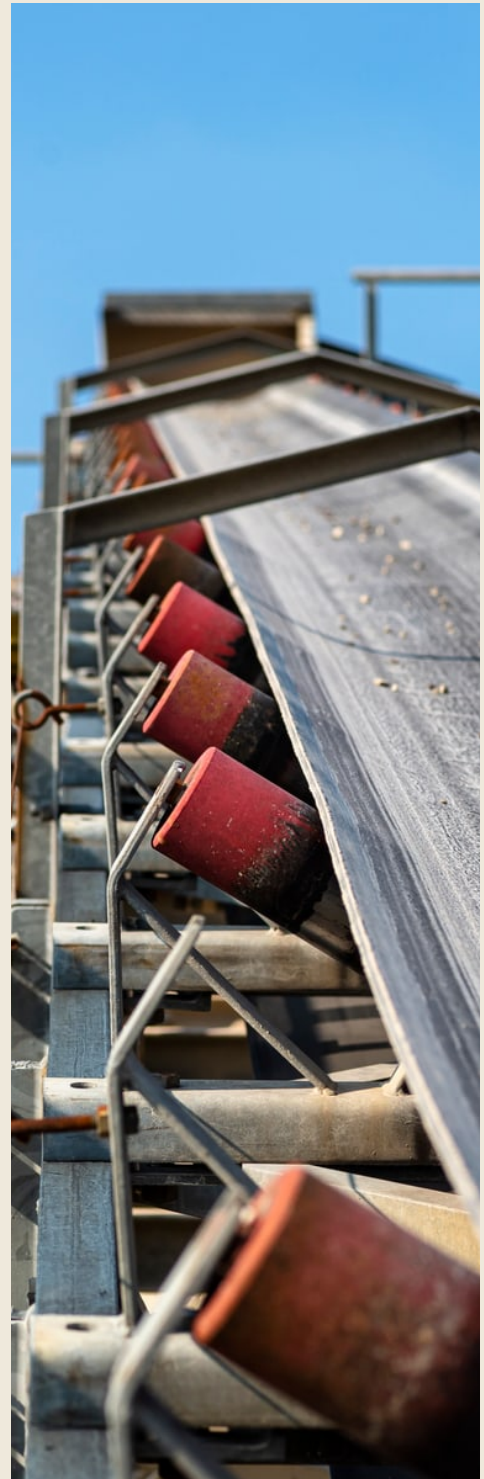
Design of propping schemes and temporary support for structures during alteration and construction.

ENERGY

Design of electrical switchrooms, substation footings and steelwork, and structures for battery storage.

CIVIL & INDUSTRIAL

Design of culverts, retaining walls, industrial pavements and warehouse structures.



MINING & MATERIALS HANDLING

Design of chutes, transfer towers and conveyor gantries, together with strengthening of wharf structures.

BRIDGES

Design, load rating and analysis for pedestrian, rail and road bridges.



ENGAGEMENT

We work to a fixed fee or a schedule of rates. Terms are provided with every proposal, before any work starts. A fixed fee names what is included and what is not. Variations are agreed in writing before the work is done, not raised on the invoice afterwards.

INSPECTIONS

Where a site visit is needed, the engineer doing the assessment is the one who attends. Drawings and photographs sent ahead are useful and often decide what is worth looking at on the day. If a site visit cannot happen inside the programme, we say so rather than work around it.

PROGRAMME

Turnaround is quoted with the fee and confirmed at engagement. If a date is going to be missed, you hear before the date rather than after it, with a revised date attached.

ISSUE

Advice is dated and drawings carry a revision. What was known at the time of writing is stated as such, so a later change of circumstance can be traced to exactly what it changes.



CONTACT

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