

INFORMATION

FOR

DESIGN ENGINEERS

DISCLAIMER

The information contained in this document is intended for the use of suitably qualified and experienced engineers. This information is not intended to replace design calculations or analysis normally associated with the design and specification of buildings and their components. Dincel Construction System Pty Ltd accepts no liability for any circumstances arising from the failure of a specifier or user of any part of Dincel Construction System to obtain appropriate professional advice about its use and installation or from failure to adhere to the requirements of appropriate Standards and Codes of Practice, and relevant Building Codes.

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What is the benefit for the Design Engineer specifying Dincel Construction System (DCS)?

- **Eliminates engineer's liability due to wall crackings and waterproofing.**

Many design engineers have already experienced litigations or at least wasted a considerable amount of time due to some of the following issues:

- Cement render crackings.
- Concrete slab shrinks and brick wall grows in time behaving totally opposite to each other and resulting in wall crackings.
- Foundation settlements due to supporting soil conditions resulting in wall crackings.
- Inappropriate jointing, concrete pouring practices, wall formwork movement leading to re-bar corrosion problems.
- Waterproofing problems due to many reasons ([Download – Waterproof Walls](#)).
- Structural behaviour of masonry walls when subjected to lateral loads ([Download – The Roles of Masonry Infill Walls In An Earthquake](#))

Many of these problems are beyond the control of the design engineer. The cause of the problem could be very hard to identify and defend, especially after the completion of the building's finishes.

No matter how perfect your design detailing and construction supervisions are, cracks will occur as brittle finishes do not need much movement to crack. As an engineer you can experience the above noted painful experience if the building you are associated with has brittle material/finishes and/or waterproofing problems. Today's litigious construction world always looks for someone to blame. The structural engineer is usually the first candidate for this blame.

Dincel-Walls' non-brittle, ductile polymer encapsulation offers near to perfect curing conditions, eliminates cracks, joints and waterproofing which are a potential liability for the design engineer. Unlike brittle masonry walls, Dincel-Wall behaves homogenously with concrete floor slabs.

- **DCS reduces the cost and time of construction which results in a return business to the engineers.** The cost and time reductions are the prime objectives of your customers. The structural system incorporating Dincel-Walls in lieu of slab-column frame structure with infill walls reduces the structural cost at each floor level significantly. Refer:

[\(Download – Compare AAC Walls With Dincel\)](#)

[\(Download – WHY DINCEL IS FASTER\)](#)

[\(Download – FAQ, Answer No: 21 – System Advantage/Construction\)](#)

- **Load bearing Dincel-Walls simplify and reduce engineering design and detailing time.** One way spanning in-situ or precast flooring supported by load bearing walls are simpler to design and detail.

The following information is provided for Engineer's use:

- Structural Design Engineering Manual – available to engineers upon request.
- [Download – Structural Engineering Design Certification.](#)
- Construction Manual – available upon request.
- [Download – Solution for Earthquake-proof Buildings](#)
- [Download – Dincel Solution to Concrete Problems and Cement Minimisation](#)
- [Download – Common Engineering Questions.](#)
- [Download – Why Engineers Can Omit Crack Control Steel in Dincel-Wall](#)
- [Download – Recommended Details For Engineers.](#)
- [Download – Dincel-Wall Fire Assessment.](#)
- [Download – Waterproof Walls.](#)