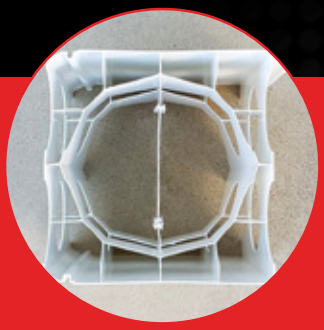
DINCEL STRUCTURAL WALLING | UTS



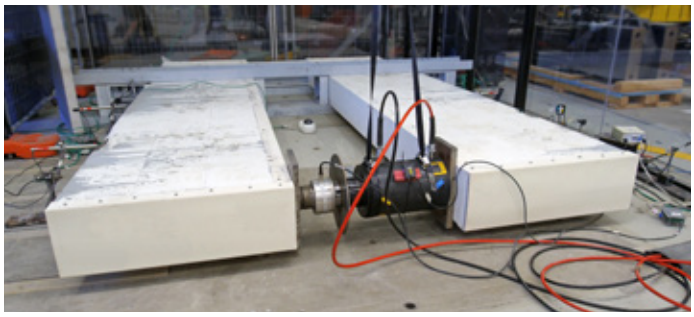
DINCEL 275 – MORE THAN JUST FORMWORK

The composite structural behaviour of Dincel 275 wall has been verified by the University of Technology Sydney (UTS) to AS3600-2018 (Appendix B)

It was found that Dincel 275 with it's unique ring webbing provides significant benefits against a range of structural actions.

Testing was completed with the following infill types:

- Plain mass concrete
- Macro synthetic fibre (BarChip) reinforced concrete
- Steel bar reinforced concrete



Flexural Testing

- Dincel 275 shell provides additional flexural capacity, opening up the possibility for fibre reinforced basement/retaining walls (such walls have already been designed within Australian projects).
- Dincel 275 walls can be backfilled 24 hours after concrete infill (when suitably braced).

Stiffness Testing

- Reinforced Dincel 275 offers fully ductile behaviour (μ=6), allowing for enhanced earthquake/wind design to AS3600 and NZS 3101.
- Effective flexural rigidity (lateral stiffness) not reduced compared to conventionally formed counterpart.

Shear Testing

- Interface shear capacity is comparable to a conventional concrete wall.
- The confinement offered by Dincel 275 wall enhances shear capacity.

Download the full UTS Report

Case Study Video

To secure a 2021 presentation time slot or for any questions, contact us at:

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