



Dinzel 275 Profile Strength Tested at UTS



Industry first innovation

By omitting steel reinforcement bars, Dinzel 275 is able to offer the following benefits:

- ✓ **Faster, safer and less excavation resulting in incredibly cost-effective installation.**
- ✓ **Significant reduction in embodied energy and carbon footprint.** (reduced steel manufacturing)
- ✓ **Exceptional concrete compaction,** as the omission of horizontal steel reinforcement bars in particular enables unimpeded concrete flow. When coupled with 275 Dinzel's unique ability to handle up to 300mm slump concrete, air-voids are not possible. Air-void free concrete in Dinzel 275 ensures an increased asset life by preventing potential corrosion issues and eliminates the need for wall waterproofing.

The Dinzel 275 profile, which contains a unique cylindrical formwork shell, has undergone strength testing at the University of Technology Sydney (UTS). UTS has confirmed that **275 Dinzel can be designed and installed without the use of steel reinforcement bars**, consisting of the following concrete infill:

- Mass concrete, or
- Synthetic-fibre reinforced concrete

The testing was completed in accordance with the requirements of AS3600-2018 (Appendix B) and is **certified by UTS as compliant with the National Construction Code 'deemed-to-satisfy' provisions for structural requirements.**

In addition, the loading was applied onto Dinzel 275 walls containing either early-age concrete (after 24 hours) or later-age concrete (after 28 days). **Results demonstrate that Dinzel 275 walls can be backfilled 24 hours following concrete infill** (with appropriate bracing), which allows for construction of the superstructure to take place earlier.

For further information,



**Watch the
Dinzel 275 Video**



**Download The Dinzel 275
Report by UTS testing**



**Talk to our team
at 1300 DINCEL**