Pinnacle
Construction Group

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Mr Burak Dincel
Dincel Construction System Pty Ltd
101 Quarry Road
ERSKINE PARK NSW 2759

Dear Burak

RE: DINCEL WALL

We are building 56 luxury apartments split between two buildings at 3 and 5-11 Meriton Street, Gladesville. Both buildings are 9 storeys high (including 2 levels of basements).

In one building, Dincel Wall was utilised for the lift and stair shafts, external walls and for internal blade columns.

In the second building, Dincel Wall was again utilised for the lift and stair shafts, and external walls. However in this building, we used 110mm thick Dincel Walls for all party walls in lieu of the previous system using blade columns. This is when we truly understood the advantages of using Dincel as a structural system.

The reasons why I will favour using Dincel load bearing walls as a structural system for my future projects are as follows:

- 110mm Dincel Walls provide both space saving and concrete saving in comparison to thicker wall systems.
- 110mm Dincel Walls were used to achieve a Fire Rating Level of 90/90/90 on this project.
- Using 110mm Dincel Walls as the load bearing elements resulted in thinner slabs and less reinforcement used in comparison to if the slabs were supported by columns. For example, where a frame structure system is adopted (i.e. the slabs are supported by columns) the slabs are required to be minimum 200mm thick and bar or post-tensioned reinforcement must be used. In my project, using Dincel Walls, the slabs were reduced to 150mm thick which had mesh slab reinforcement only further adding to construction speed and significant cost savings. We saved 50mm of concrete per floor level once we used Dincel Walls as the load bearing party walls.
- Dincel Wall does not require horizontal reinforcement for crack control purposes; therefore the majority of Dincel Walls on this project were designed without the use of horizontal reinforcement.
- The internal party walls were 110mm thick Dincel with 200mm thick Dincel used for the external walls. At each floor level we used the 200mm thick external Dincel panels as a fall protection barrier. This eliminated our scaffolding requirements.

I am very pleased that Dincel advisors, together with the structural engineer for the project, allowed me to experience the true benefits of using Dincel as a structural system, which allowed us to achieve significant cost and time savings.

Yours faithfully

Andrew Tetlow
Construction Manager