



**Owner :** Grocon Constructors Pty Ltd  
**Engineer :** Bonacci Group

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**Subsidiary(ies) :** Freyssinet Australia

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**Beginning of works :** 02/2006  
**End of works :** 05/2007

### Description of the work :

Grocon Constructors were awarded the Design and Construct contract for the new 11 storey 60,000m<sup>2</sup> headquarters for AXA Australia in Collins Street Docklands. Building on the relationships fostered during previous projects such as Eureka Tower, MCG Northern Stand Redevelopment and QV Village, Austress Freyssinet worked closely with Grocon during the initial design and construction planning stages to produce an efficient design which meet Grocons' construction requirements and the client's needs.




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### Freyssinet mission :

Freyssinet Australia was awarded the supply contract for the post-tensioning works in December 2005. During the early design phases, Freyssinet Australia worked with Bonacci Group to optimize quantities, while ensuring the strict deflection criteria's were achieved. The solution adopted for the typical floor plates was a one way 180mm post-tensioned slab spanning to a 500D x 2400W post-tensioned band beam. The client imposed a stringent deflection criterion on the floor plates, only allowing 15mm total long term deflection. To add to the difficulties of the design, Grocon required the slabs to be capable of supporting a 'wet concrete' level above without need for back propping, therefore significantly increasing the capacity of the slabs and beams. This gave Grocon the ability to reduce back propping costs, while allowing finishing trades to begin within weeks of the concrete pour.

