

Auburn Power Centre



Location

Lidcombe, Sydney, NSW, Australia

Client

Spotlight Property Group

Project Value

AUD\$80.0 Million

Office Responsible

Cardno Grogan Richards

Responsibilities

Structural, Civil & Traffic

Project Scope

Cardno Grogan Richards provided integrated structural, civil and traffic engineering services for this landmark bulky goods retail development. The building is located in Lidcombe, NSW, and has a retail floor area in excess of 30,000 square metres over two levels, with parking over 4 levels. An impressive cantilevered canopy and extensive water-features give the development a unique and striking street frontage.

The overall building dimensions of approximately 250m x 150m, required the structure to be sliced up into 15 isolated sections to allow for the expected shrinkage and thermal movements. The structural solution combines architectural steelwork, load bearing precast panels, and post-tensioned floors to create a very impressive building for a 'bulky goods' price. Cardno Grogan Richard's careful selection of the structural solution allowed this very large structure to be built in less than 12 months.

using a syphonic system, which feeds into a stormwater harvesting tank that in turn supplies the water-features. A large stormwater detention system was incorporated into the floor of the basement structure. The integrated structural and civil solutions allowed the high level outlet to comply with the stringent requirements of this flood prone area.

Innovative multi-disciplinary design was critical to incorporate two levels of loading docks at both ends of the project, requiring detailed analysis of swept paths, ramp gradients and, long span structures with very tight head heights.

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The massive roof areas are drained