







Smalls Road Public School (SRPS) is an innovative new build school developed by Schools Infrastructure.

With a budget of \$38M, the Architect along with Schools Infrastructure set an ambitious goal to build a new primary school for the residents of Ryde which also stands out as a landmark in the local community.

The project was delivered as a D&C contract with Richard Crookes Constructions and is located on the former Ryde High School grounds, a site which had been previously unutilised for around 30 years.



The school building itself is a 3-storey circular concrete structure designed to support up to 1000 children and 70 staff and was completed at the end of 2019. The school opened to its first intake of students in Term 1, 2020 and has been haled by all involved as a great success in terms of the design, construction time and its unique aesthetic.







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AREA	IENDER DESIGN	DESIGN & CONSTRUCTION CHANGES MADE		
Foundation	Pile Foundation	50% Pile foundation(bored piers) and 50% pad footing bearing in same materials		
Retaining walls	190 reinforced core filled block walls	200 AFS REDIWALL		
Ground floor	Conventional suspended RC concrete slab with beams supported by piles	Slab on Ground with void former to external edge of building where reactive clay present		
Level 1 and 2	Post tensioned floors with 1100 deep beam along column grids	Infill Ultrafloor® slab with precast Megabeam (750 deep x 15m span) along column grids		
Roof	Metal roof with structural steel framing	Metal roof with light weight steel framing – D&C by AUSTRUSS		
Columns	Conventionally formed RC columns	Combination of conventionally formed and preformed insitu columns, 12m high Rocla precast columns (D&C) to triple height Assembly Area		
Core walls (Stair and Lift)	Conventionally formed RC walls	Austral Double Wall full height precast panels		

SCP ULTRAFIOOT

Key S	tructural Elem	Nents VLTRAfloc Precosi Concrete Floor	
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## Design & Construction Process

For the construction of Level 1 & Level 2 suspended slabs, the ring building used two separate construction stages and methodologies.

## Stage 1

Construction of the typical internal floors with a combination of preformed and conventionally formed columns, 15m span precast beams (Megabeams) and Ultrafloor® infill.

## Stage 2

Construction of the conventional infill slab around the lift and stair cores which was built with full height Austral Double Wall precast panels.



SCP ULTRA floor





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