

Case Study

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Lemonwood Grove School Canterbury

Situated on a 4-hectare site in Rolleston, Lemonwood Grove is a brand new school built to cater for a growing community.

Southbase Construction partnered with Concision on this project in order to deliver on the Ministry of Education's rigorous 'Green Star' principals within a challenging timeframe. As a result, Lemonwood Grove was the first school in New Zealand to be constructed entirely from pre-fabricated wall and roof panels. It has set the benchmark for innovative construction in the education sector.

At 2800m² the school has been designed for eventual capacity of 750 students and is being built in two stages. Stage One provides learning spaces for 450 students alongside infrastructure for the full 750 students including administration, hall/gymnasium and playground spaces.

Involving Concision at the design phase meant we were able to achieve an efficient panel layout, consisting of 68 closed, warm wall panels and 140 warm roof panels. Further, in separating the roof and cladding from the structure, we achieved high efficiency thermal insulation, bringing greater value to the overall project.

Typically, these types of school projects take 18-24 months, start to finish, using traditional building methods. But with Concision manufacturing the exterior panels off-site at the same time as the steel was being erected on-site, the entire project was designed, consented and completed in just 13 months – at least five months ahead of schedule.

Architect: Stephenson & Turner
Engineer: Lewis Bradford
Builder: Southbase Construction with Concision

Lemonwood Grove is the first New Zealand school constructed entirely through off-site manufacturing – setting the benchmark for innovative construction in the education sector.