

Cleveland District State High School, Redland City, QLD



Cleveland District State High School is located in Redlands, a city to the south east of Brisbane that has undergone a large population growth. The School now has the 4th largest student population within the Queensland State Education system.

Requirements

The general project scope included providing Insulated panels that could cover the roof in single spans. Thus, eliminating the requirement for any mid-span joining and any on-site fabrication work.

The roof was designed as a cantilever divided into 6 separate sections. Half of the roof requiring the panels to span 15.47 m while the balance of the roof panels measured 11.85 m.

meet the BCA requirements covering structural performance, energy efficiency & fire resistance.

The building site, in the middle of an existing cluster of school buildings, created site access and maneuverability issues, and it was necessary to develop practical solutions for the unloading of such large panels.

Solutions

Delta Panels' range of certified roofing products provided the solution that could meet the project specifications. The range of CodeMark certified panels have various core infills options, including mineral wool and fire-retardant EPS. DualCore panels comprise a combination of both materials.

technical requirements. All the roofing panels were finished with a Shale Grey trapezoid top sheet and a Surf Mist interlocking steel under-skin.

IRT roofing and Delta Panels were able to resolve the numerous on-site issues caused by the limited access and work space by coordinating extendable trailers; this allowed the panels to be hoisted directly to the roof tops. Thereby eliminating any need to store product in the already limited work site.



Assembly Area

Benefits

Without making any modifications to the project design the strategic placement of Delta Panel's DeltaTrim™-EPS-FR panels ensured that the roof met all BCA requirements while working in a crowded building site with very little site maneuverability and clear access.

Client: Queensland Department of Education Cleveland State High School
Builder: Adler Constructions
Roofing Contractor: IRT Roofing



Assembly Area 2

The roofing material for the project required a Code Mark Certificate of Conformity stating that the Panels

For this project the selection of the DeltaTrim™-EPS-FR panels, with a 150mm core, offered a ready-made solution that could meet the project's



Student Engagement Centre as seen from above



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