

Victoria Point State High School, Victoria Point, QLD



Victoria Point State High School is a Queensland Secondary State School which was first opened in 1997. Located in the heart of the rapidly growing Redlands City, the campus continues to expand to cater for an ever-growing student population. Recently, our DeltaTrim™-Mineral Wool insulated roofing panels were utilised in the construction of a modern two-storey technologies block.



External Connecting Walkway with HDG Structural Steel

Requirements

For the external connecting walkways surrounding the technology block, careful consideration was required to ensure the design interconnected the building with the surrounding campus, but importantly, it also complied with the fire properties outlined in NCC Clause 1.9 (e) (vii) & AS1530.1. To achieve these joint objectives, it was deemed that the installation of a non-combustible insulated panel was required.

Solution

Delta Panels manufacture a range of

insulated panels with alternative core options that offer differing fire-related performances to satisfy a diverse range of building applications. Our Mineral Wool core has been independently tested by the CSIRO to the test criteria Clause 3.4 of AS150.1:1994 and deemed not combustible.



Underside of External Connecting Walkway

When the Mineral Wool core material is laminated to steel skins, the resulting Delta Panels Mineral Wool insulated building panels meet all performance requirements in accordance with section C1.9 Non-combustible building elements of the National Construction Code. Furthermore, the range of Delta's Mineral Wool panels have undergone both AS 1530.3-1999 Early Fire Hazard Properties and Flameguard FRL system testing.

All of the independent testing has been certified by CodeMark Australia.

Results

For this specific project, the selection of DeltaTrim™-Mineral Wool panels offered a ready-made solution that could meet all of the project's technical requirements. The roofing panels were finished with a Monument® trapezoid top sheet and a Surfmist® interlocking steel under-skin. Approximately 300 square metres of insulated panels were utilised for the project. The spanning capacity of the Insulated panels with a 75mm mineral wool core allowed HDG Structural Steel to design the roof featuring a supporting beam at each end of the sheeting. There was no need to include any additional supporting structures.

Site access restrictions required the builders from Statewide Roofing to manually manoeuvre all of the panels onto the support structure. They did not encounter any difficulties due to the robust nature and length of the panel sheets.

Outcomes

Without making any modifications to the project design, the strategic placement of Delta Panel's DeltaTrim™-Mineral Wool panels ensured that the roof met all NCC and BCA requirements.

Client: Queensland Department of Education Victoria Point State High School

Contractor/Builder: Statewide Roofing

Photographer: Andrew Porfyri



Technologies Block & External Connecting Walkways as seen from above



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