CASE
STUDY

ADELAIDE SHOWGROUNDS TRAIN STATION

PROFILE: Fielders FreeForm™
ARCHITECT: Tectvs
BUILDER: McConnell Dowell
ROOFER: S&LJ Roofing Contractors Pty Ltd

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PROJECT SPECIFICS

2,550m² of 0.75mm tapered FreeForm™ | 400mm profile in Surfmist colour | 18 metre sheet lengths | Steel grade: G300 | Roof pitch increase from 2 degrees to 8 degrees

THE PROJECT

As part of South Australia's Rail Network Electrification project, the $16.5 million Adelaide Showgrounds Train Station was built in 2013 to replace the temporary station constructed annually for the Royal Adelaide Show.

Opened in early 2014, the state-of-the-art facility has been designed as a fully covered, weatherproof station to cater for Adelaide Metro's new electric trains, with a striking overpass footbridge completing the design.

Fielders were contracted by Tectvs and McConnell Dowell to provide FreeForm™ roofing material to cover the entire station, making it the first project in South Australia to utilise the brand new standing-seam profile.

THE SOLUTION

During the planning phase, FreeForm™ was selected by the architect due to its compliance with the original brief of a standing-seam roof profile with clean, visible lines supplied in a 400mm wide pan profile.

A total of 2,550m² tapered Surfmist COLORBOND® Steel in 0.75mm BMT material was supplied for the roof. Encorporating a gradual pitch change, the roof varies from eight degrees to two degrees in the plane.

THE PROCESS

The Fielders Mobile Mill was based on-site at Wayville to roll the FreeForm™ sheets, delivering a faster turnaround of supply and longer sheet lengths by eliminating the need to transport the profile by road.

After being rolled, the 18 metre long sheets were hoisted by a crane to the top of the station using a spreader bar to safely install the material to the roof.

FreeForm™

Fielders **FreeForm™**

FreeForm™ is part of the standing-seam family of architectural roof cladding profiles available from Fielders and is distinguished by its ability to create shapes and curves existing profiles on the market are unable to replicate. Suitable for a large range of roofing configurations, its versatility in curved application enables the sheets to be convex or concave curved vertically or horizontally, with an unmatched natural curve limit of up to 80m radii. FreeForm™ sheets can also be mechanically curved down to a 1mm radius.

Project uses include standard purlin construction, single skin roof applications, vertical wall, conical tapered roof profiles, and structural deck and cassette type roof applications, re-roof framing and plywood substrate roofing situations.

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