CASE
STUDY

SYDNEY CRICKET GROUND

MA NOBLE & DONALD BRADMAN STAND

PRODUCT: Fielders *FreeForm*®
ARCHITECT: Cox Architects
CONTRACTOR: AW Edwards Pty Ltd

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PROJECT SPECIFICS

Over 5,000m² of tapered *FreeForm*© | Tapered from 380mm down to 220mm | Sheets rolled to a maximum length of 41m | Steel grade: G300

THE PROJECT

The $197.5m redevelopment of the MA Noble and Donald Bradman stand at the Sydney Cricket Ground (SCG) was completed in July 2014 to provide an additional 13,360 seats for the ground and deliver a world-class sports and recreation facility for NSW.

Fielders were contracted by AW Edwards Pty Ltd and Cox Architects to provide a roofing solution for the large canopy of the new pavilion, to provide coverage for 85% of the new seating.

THE SOLUTION

Given the unique curved shape of the pavilion's roof, the FreeForm© standing seam profile was selected by the architect and builder as it was one of the only solutions capable of delivering on the complexity of the design brief.

The roof was to be sprung curved in both directions, creating convex radii from 120m in the centre, curving down to 55m at both ends, which relied on the flexibility of the FreeForm© system to create the natural curves required to synthesise with the 'helmet' style outline of the canopy.

Over 5,000m² of tapered Surfmist® COLORBOND® FreeForm© 0.75mm BMT was supplied, the material was tapered from 380mm down to 220mm to meet the natural curves of the structure.

THE PROCESS

The Fielders mobile roll-former was based on site at the SCG to roll 450 individual FreeForm© sheets to assist in a faster turnaround of the sheeting. The materials were hoisted by a crane to the top of the pavilion using a 48m spreader bar, in what was a 20 day roll and installation process from start to finish.

Fielders also provided the soffit lining to the underside of the structure which was fitted in the S-Rib profile to complete the project.

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. The systems of smooth or crank curving allow for previously unthinkable architectural designs to be a reality.

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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