



Fielders FreeForm™

FIELDERS BUILDING SYSTEMS
Ideas to Shape the Future

FIELDERS

INTRODUCING

FreeForm™

Fielders Roofscape Design Series

FreeForm™ is part of the 'standing-seam' family of architectural roof cladding profiles. It is the world's most thoroughly tested and developed structural standing-seam roofing system. FreeForm™ can meet the most demanding architectural requirements through the successful combination of outstanding functionality and stunning aesthetics.

FreeForm™

400 Profile (2 or 3 swage)

220 - 400 Profile (2 swage*)

*Curved and tapered.

- Available in most steel finishes
- Available in Aluminium
- Available in Colorbond® colours
- Water tight mechanically seamed profile
- Airtight capability (extreme conditions)

FreeForm™ is engineered for design flexibility in varying construction applications architects require, including; standard purlin construction (single skin roof applications, such as sheeting to purlin with no ceiling), vertical wall, conical tapered roof profile and built up roof system applications. Available in both pre-painted Colorbond® steel and aluminium finishes, Fielders has the ability to roll the material onsite to any length or size using the Fielders Mobile Mill roll former.

FreeForm™ panels accommodate the most complex roof configurations including curved surfaces allowing smooth transitions between roof planes and between the roof and other building elements. A variety of end panels and ridge covers cap off the most complex roof design.

The unique tapering can be done from our standard 400mm profile and reduce to 220mm. On special designs we can make a 600mm cover width sheet that will taper down to 220mm.

This allows curved buildings like sports stadia to be accommodated with ease.

Description	Colorbond®	Aluminium
Thickness (BMT)	0.55mm/0.75mm (Steel grade G300)	0.90mm, 1.20mm
Sheet Dimension (Minimum roof pitch)	1.5 degrees for roof sheeting without end-lap. 3 degrees for roof length with end-lap.	

Profile Particulars

- Standard Cover= 400mm (Note: This is the standard cover width, however there are tapered options of 220mm to 400mm profile widths for general and wider for applications).
- Rib Height= 65mm.
- Capillary groove on the male rib prevents siphoning action and with the addition of the mechanical zipper this provides an impenetrable weather barrier against rain, wind, snow and ice. Fielders unique and extensive 20 Year Concealed Watertight Installation Guarantee (WIG) is available for the FreeForm™ profile.

Rolling Capabilities

FreeForm™ can be roll-formed on site (mobile roll former) with a maximum length of 150m depending on site conditions, and in most cases this entails a full-length ridge-to-eave panel which in turn eliminates the need for end laps. The on site roll-former can be set at ground or roof levels.

FreeForm™ can be factory rolled to standard lengths of up to 30m (Subject to transportation limitations).

Materials / Finishes

Available in both pre-painted Colorbond® steel (G300) and Aluminium finishes (various types of Aluminium grades and tempers available). Colorbond® available in 0.55mm to 0.75mm BMT, Aluminium available in 0.9mm & 1.2mm BMT. Aluminium can also be finished in a range of colours, please contact Fielders for advice.

Curving Capabilities

The exclusive feature of FreeForm™ is its versatility in curved applications. FreeForm™ can be convex or concave curved to vertically or horizontally profiled sheets. FreeForm™ can be curved to radii that no other roofing profile can match.

Curving Capabilities

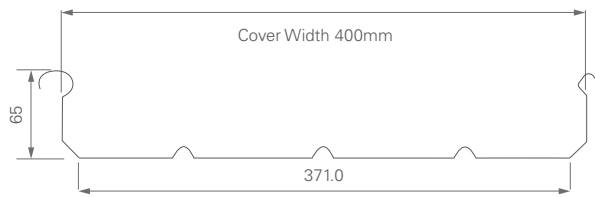
- FreeForm™ can be sprung curved (naturally curved) to a maximum limit of 80m radii.
- FreeForm™ can be mechanically curved via a smooth curve machine to radii of 20m*.
- FreeForm™ can also be mechanically curved via a crimped/ cranked curved machine to radii of 2m* (Please note this is limited to a "bullnose" type roof)

*Please note: Mechanical Curving is only available upon request, lead times also apply - please speak to your local Fielders Representative for further information.

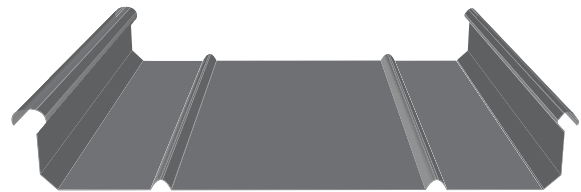
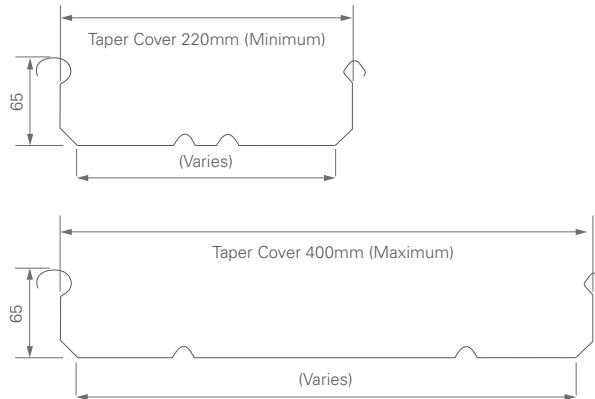
Tapered Capability

FreeForm™ has the capability of being tapered for conical or other roof surfaces.

FreeForm™ 400 profile - (2 or 3 Swage)



FreeForm™ 220-400Taper profile - (2 Swage)



Roof Pitch Capabilities

- 1.5 degrees for roof sheets without end-lap.
- 3 degrees for roof length with end-lap.

FreeForm™ Clip

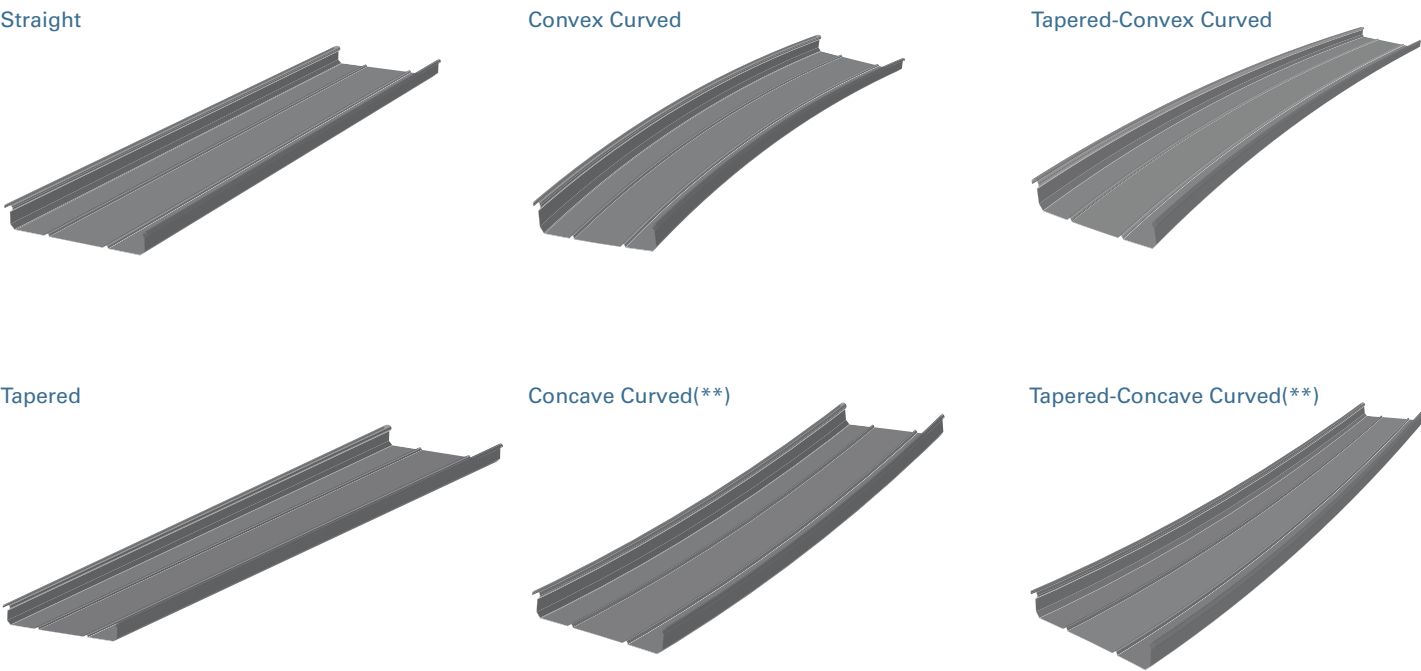
Concealed floating clip attachments, available in a variety of configurations to meet any substrate conditions, allow faster penetration at structural supports and side laps.

The clips allow panels to expand and contract freely in response to temperature variations whilst also remaining resistant to wind uplift forces.

The clips must be fixed to a steel, aluminium or timber structure. The clips are attached to the substructure with building authority-approved connecting elements.

Fielders FreeForm™

FreeForm™ available profile shapes



**Please note: Concave can be sprung to a limit of 80m. Crank curving not available with concave applications.

FreeForm™ Span Specifications (Steel Only)

Maximum Recommended Span (mm) FreeForm™ Non Cyclonic; G300		
Span Type	0.55 BMT Roof	0.75 BMT Roof
Single Span	800	1200
End Span	1000	1600
Internal Span	1400	2000
Unstiffened Overhang	150	150
Stiffened Overhang	200	250

- 1. Recommended maximum spans are based on roof foot trafficability only.
- 2. Contact Fielders Technical Services Group (TSG) for further technical information including wind pressure capacity data.

To Find Out More On Your Specific Project
Contact Fielders 1800 182 255 or tsg@fielders.com.au
www.fielders.com.au

