



ROOFING & PROFILES (FIJI) LTD.

Build With Confidence
ROOFING & SHEETMETAL MANUFACTURERS

CRIMPED CURVED ROOFING SYSTEMS



Superdek® (Trimdek®) Crimped Curved Roofing

Crimp Curved Sheets

- ★ Machine crimped across the profile pans. Each crimp forms the sheet to a fixed angle and the radius required for the curve is achieved by altering the crimp spacing.
- ★ Made from Colorbond® Steel 0.55BMT G300 – 15 different colours available.
- ★ Available only in Superdek® (Trimdek®) metal profiles.
- ★ Single curves or combinations of straight and convex are available, but with some restrictions that must be discussed at the design stage of each project.
- ★ Attention at the design and installation stages must be given to correct sheet layout, end laps, and water catchments for low pitch areas.
- ★ Regular washing of crimp curved sheets may be required to remove dirt build-up at the crimps or in areas not naturally washed by rainfall.
- ★ Transport and handling will limit sheet lengths and shapes and must be discussed at the design stage of each project.

Profile Material and BMT (mm) Minimum Radius

Profile	Material and BMT (mm)		Minimum Radius
Superdek® (Trimdek®)	Steel G300	0.55	* 260mm

* Designs must be discussed before production.

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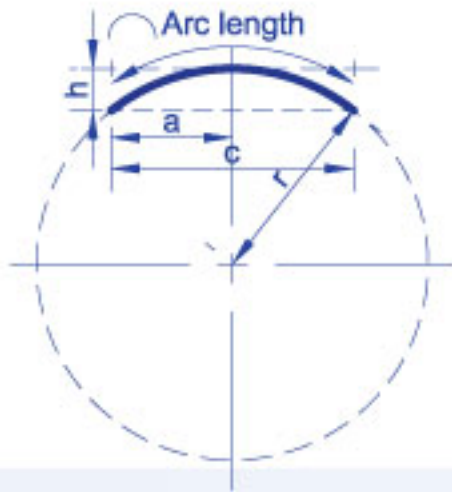
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CRIMPED CURVED ROOFING SYSTEM DESIGN

Combinations of curves and straight sections must be laid out on the roof to fit purlin locations where fastening and sheet end laps occur. Basic rules that govern the design are:

1. Straight tails on curves must span across at least two purlins.
2. Maximum length from curve to tail end is normally limited by transport and handling to 6m.
3. Laps must be in areas of roof pitch that meet the minimum pitch requirement for the profile.



To get accurate picture of curve, some of the stated variables will be required. eg: h & c.

Recommended Curve Radius

Minimum Radius

The minimum curve radius is restricted by the appearance of the roof sheet. As the radius is reduced the "pan" of the profile will begin to exhibit compression ripples that will detract from a clean appearance, and eventually reach a level that is generally regarded as unacceptable.

The minimum radius given (*260mm) for the profile, together with the purlin spacing recommended for use at the minimum radius, will ensure the clean appearance of the curved roof with minimal ripple effect.

Maximum Radius

The maximum curve radius is restricted by the need to have the profile roof-sheeting reach its minimum recommended pitch at the gutter line. This restriction ensures large radius "flat" roofs are not used.

In addition, the maximum radius limitation ensures that water catchments on the low pitch area of the curve will not overflow the profile valleys due to inadequate run-off.

INSTALLATION DETAILS

Framing And Fasteners

It is critical to the fitting and the final appearance of curved roofing that the purlin and/or girt framing is located true to line. The installer should not fit the sheeting to out-of-line members. A recommended tolerance from the true purlin alignment is $\pm 5\text{mm}$. The tighter the tolerance, the better the final appearance will be.

A trial fitting of crimped curved sheet is recommend to the purlins before the order is run, to check the curve fits the framing. An allowance of an extra 2 weeks should be built into the lead time to allow for this

Fasteners for crimped curved are as for straight sheets.

There shall not be any part of the curved roof section or any part of the roof to have fall that could allow pondings to occur. This is critical at the top of curved sheets where the roof pitch is level. If necessary, purlins may need to be closed up in this region to give support to the roof and avoid ponding.

On areas of curved roof below the profile minimum pitch, an additional 3mm thick (min) bead of silicone sealant should be applied continuously on the top of the under lap rib, before the next sheet is laid over.

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