

EUROCLAD



Curved profiles

Technical
specifications



Introduction

The development of contoured metal profiled cladding has been one of the significant innovations in recent years.

It is now widely accepted by architects and is equally suitable for exterior or internal use, on a refurbishment project, or as a primary feature of a new development. The affect is dynamic whether the cladding is fixed vertically, horizontally, or a blend of both. The total impact is heightened when curves are combined with subtle use of the Accent, RAL or Prisma colour ranges.

Curved profiles have afforded architects a new freedom and an opportunity for creative design on cladding projects. It also has practical advantages in providing an efficient system of ridge and eave closure saving on fixings, fillers and flashings. Gutter details can be sited more conveniently or concealed, the options are extensive.

The range of profiles available in the curved form is catalogued in the following pages. Reference should also be made to the 'Manufacturers Recommendations' brochure on curved details, when specifying.

Contents

Euroseam	Curved	3
	Tapered	4
SF500 Secret-fix		5
38/914 forward		6
Internal curve		7
32/1000 forward		8
32/1000 forward 'S'		8
Liner panels	19/1000	9
	20/1066 (or 914)	9
20/1066 forward		10
MW5		11
QC13 ¹ / ₂ /3		12





Euroseam

Euroseam can be used to achieve a whole range of curves from large barrel vaults to details at the eaves or even covered walkways and canopies.

The sheets can be formed into sinusoidal curves or can even combine curved and tapered sheets to produce domes.

Curves can be achieved by the ability of the sheet to self curve, by use of a curving machine to induce a smooth curve or by crimping for smaller radii.

Attention should be given to the design of curved roofs with reference to the potential spread of cover width encountered which is common with this type of system.

Availability of all complex curves (i.e. convex running into concave, straight sheet into curve or tapered curved) and halter spacings, must be confirmed through consultation with the Euroseam technical literature.

Closer purlin centres on tight radii and at the point of contraflexure on waveform curves will assist in the thermal movement of the sheet.

We are continuously investing in curving equipment and smaller radii are possible - however, close consultation is required with us if you have a radius lower than those stated.

The figures given refer to Plain Mill Stucco Embossed only. Please refer to the Euroseam technical literature for other finishes.

Euroseam curves	
Type of curve	Minimum radius
Self curve convex	45 metres
Self curve concave	60 metres
Pre curve convex	5 metres*
Pre curve concave	5 metres*
Pre curve parabolic	5 metres
Pre curve waveform	5 metres

* Please consult Euroclad for information on other gauges.



Euroseam tapered

The ability to taper Euroseam allows the system to be taken around a wide range of curves on plan. The parameters are project specific and so Euroclad should be consulted early in the design process to clarify details.

As a general rule tapered sheets should be limited to maintain a widest pan of 400mm (otherwise the pan needs to be fully supported) the narrow end of the taper should be 135mm minimum.

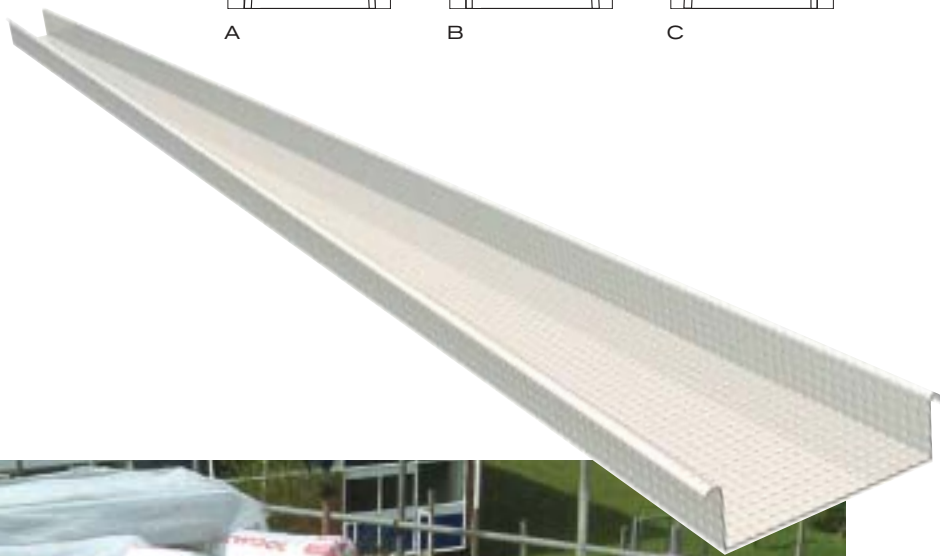
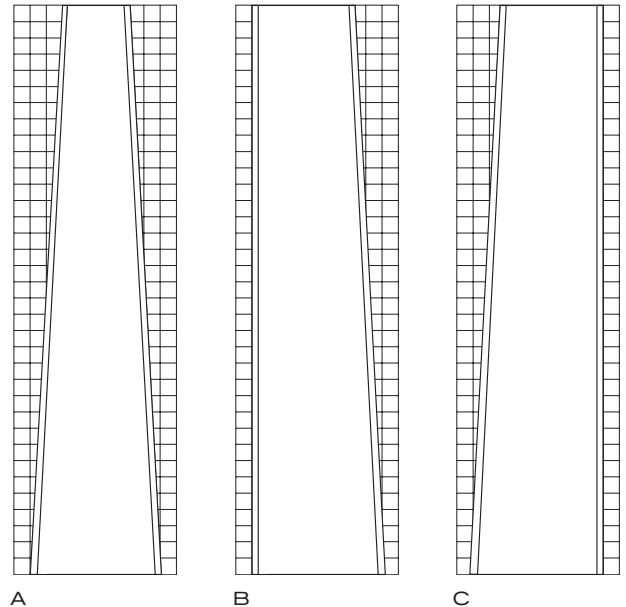
Setting out is critical and site dimensions should always be checked before a call-off is made for factory produced tapers.

These tapers are rollformed to a maximum length of 10 metres. The pan of the sheet is flat from the shoulder.

There are three options available on tapered sheets:

- A Symmetrical
- B Asymmetrical taper right
- C Asymmetrical taper left

Combinations of underlap and overlap are available.



SF500 Secret-fix

Unlike other systems, which need extra fasteners, or brackets, SF500 Secret-fix has an integral, hidden fixing system.

That not only makes it easier and quicker to install, but it completely eliminates one of the major sources of leaks: penetration of the outer sheet.

In fact SF500 Secret-fix can be used with complete confidence down to a 2½° roof pitch, while the fluted base gives superior strength and resistance to ponding.

Longer lengths can also be accommodated by the rolling of SF500 Secret-fix on site (special provision for this must be made with Euroclad beforehand).

Euroclad SF500 Secret-fix can be fixed directly to the main structure, or it can be used in conjunction with a liner. SF500 Secret-fix provides a clean, uncluttered roof line, available in an extensive choice of durable colours that should last for decades.

Euroclad's SF500 Secret-fix is manufactured exclusively from Corus's Colorcoat HPS200, or Prisma. HPS200 has the added benefit of the full 'Confidex' guarantee package.

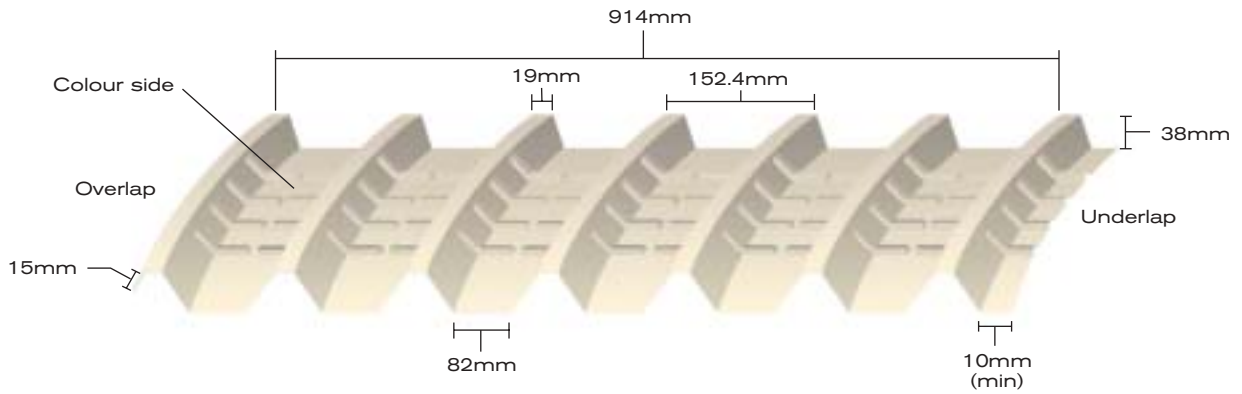
Colorcoat HPS200 with Confidex

And, as you'd expect from a registered company with a quality system which conforms to the requirements of BS EN ISO : 9001 : 2000, with Euroclad you can also be sure of the highest level of quality and service.

All in all, it's easy to see that Euroclad's SF500 Secret-fix has a great deal to offer.



38/914mm forward

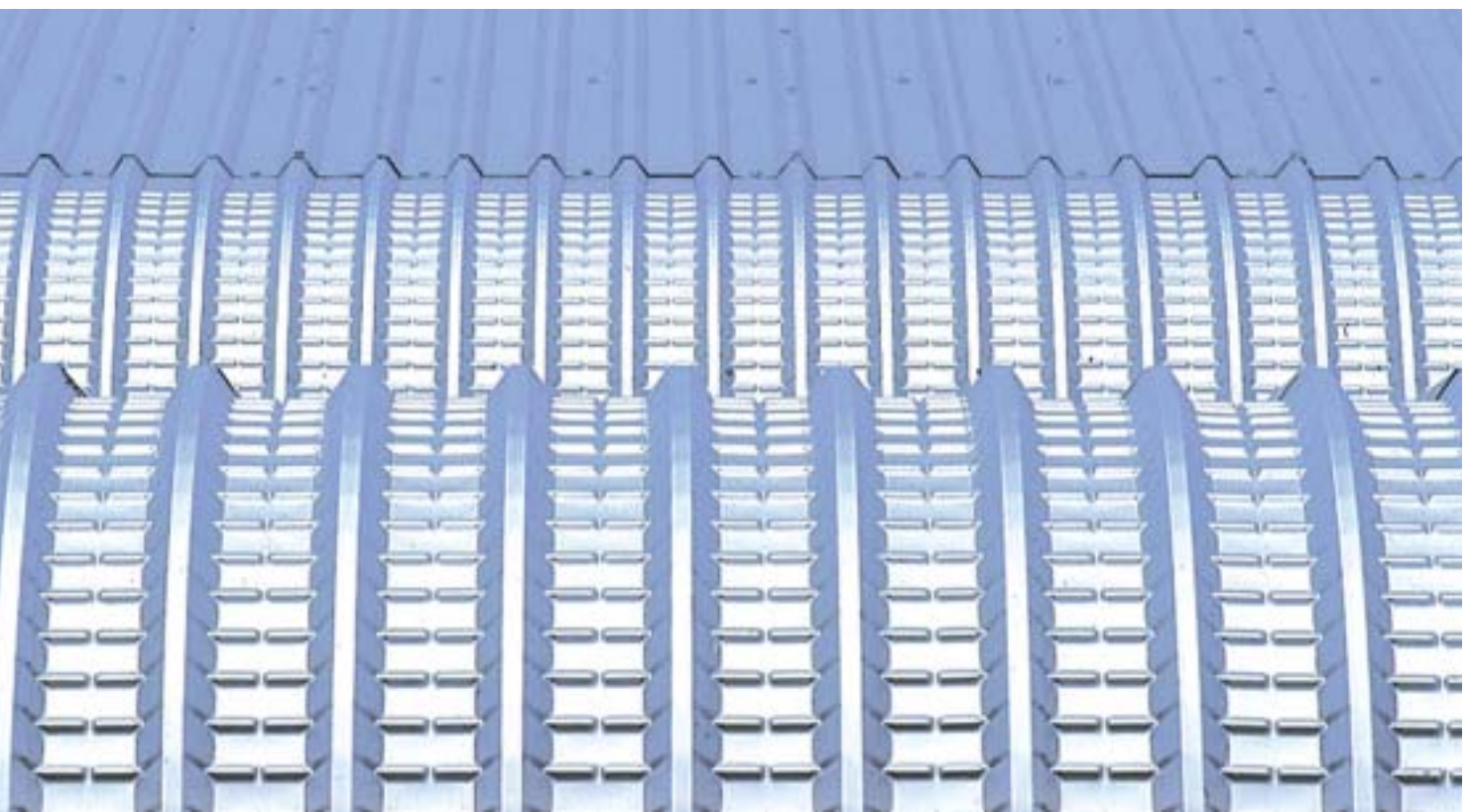


The 38mm profile lends itself ideally to the curved eave situation. The regular profile is ideal for the roof with its wide crest and visual appeal on vertical elevations.

The robust, well-designed profile provides a cost effective solution to cladding projects with strong aesthetic appeal.

Instant reference	
Gauges	.5/.7/.9mm
Cover width	914mm
Depth	38mm
Maximum sheet length	6,500mm
Minimum leg length	76mm
Span capability	As detailed in the 'Roof Profiles' leaflet
Minimum radius	250mm
Colour finish	All standard colours in: RAL*, Prisma* and HPS200 colours. Plus full Accent range.

* N.B. Prisma and RAL sheets can be supplied with a strippable film for protection during manufacture and erection.



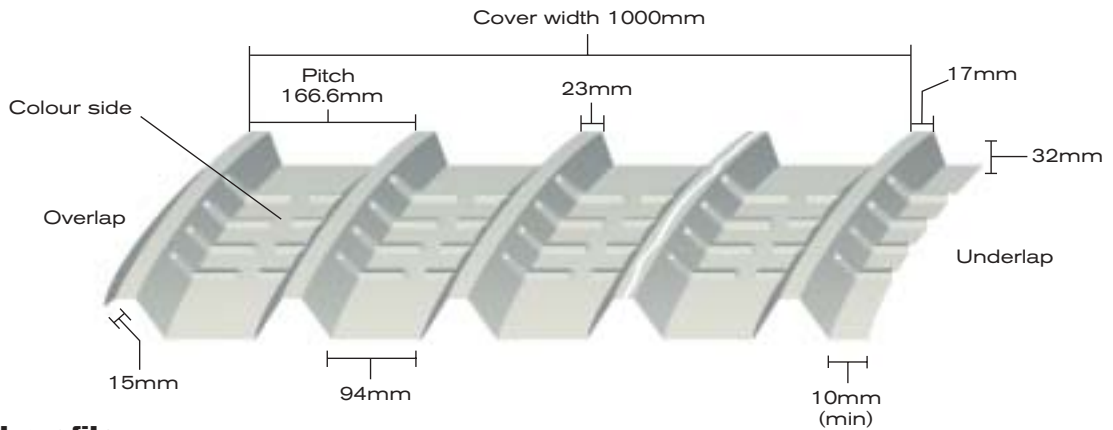
Internal curve



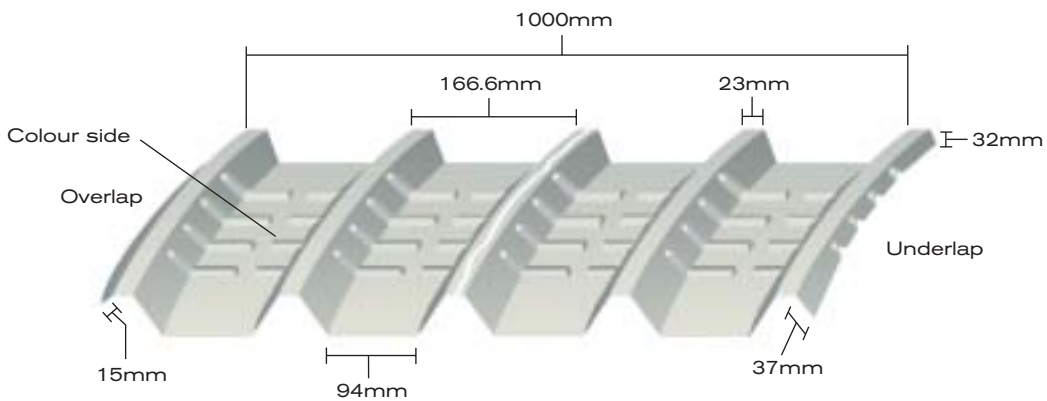
The profile can be curved externally (as with a curved eave situation), or internally (where vertical sheeting curves over to a canopy or extension). This allows the architect ultimate flexibility when incorporating this feature in the initial design.



32/1000mm forward and 32/1000mm forward 'S'



Forward profile



Forward 'S' profile

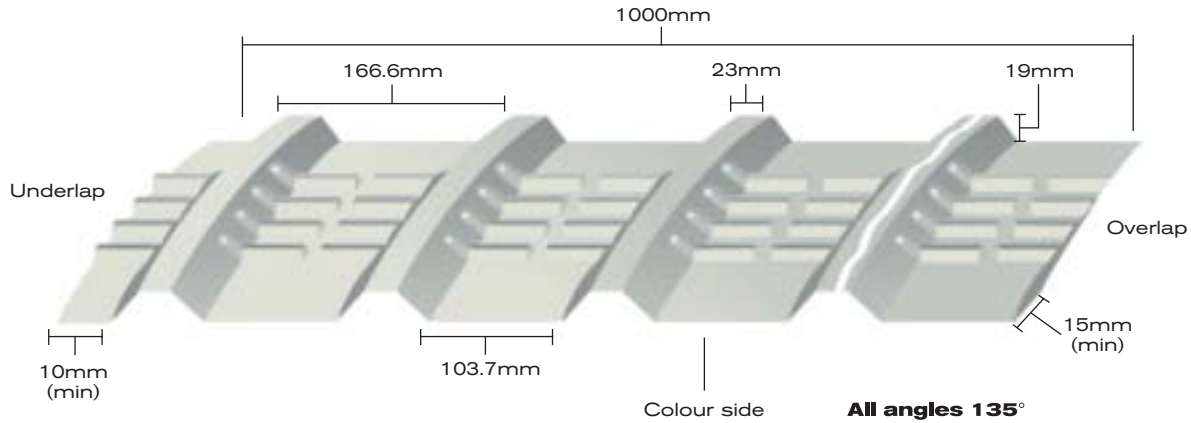
The 32mm profile lends itself ideally to the curved eave situation. The regular profile is ideal for the roof with its wide crest and visual appeal on vertical elevations.

The profile can be curved externally (as with the curved eave situation) or internally (e.g. where vertical sheet curves out over a canopy or extension). This allows the specifier ultimate flexibility when incorporating this feature in the initial design.

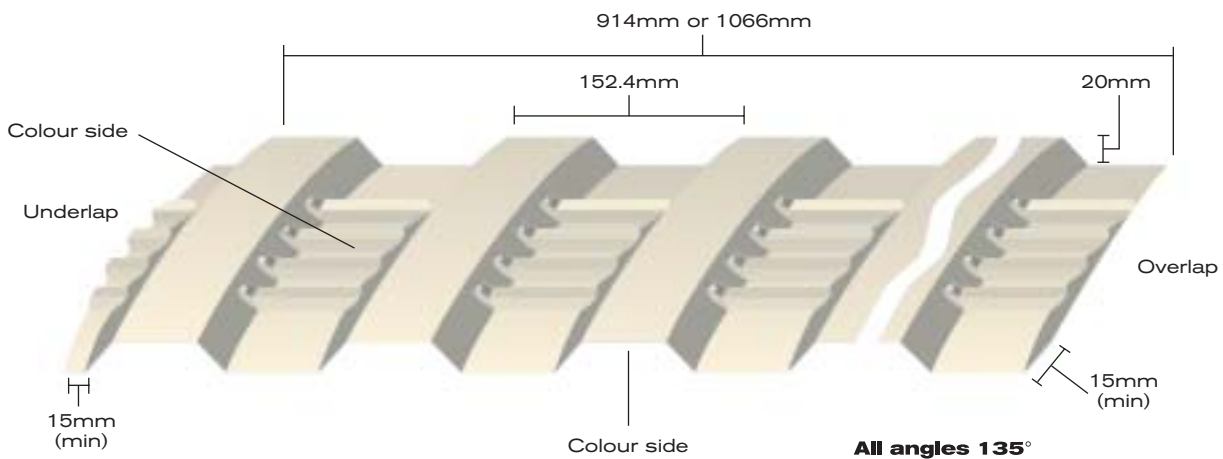
Instant reference	
Gauges	.5/.7/.9mm
Cover width	1,000mm
Depth	32mm
Maximum sheet length	6,500mm
Minimum leg length	76mm
Span capability	As detailed in the 'Roof Profiles' leaflet
Minimum radius	250mm
Colour finish	All standard colours in: RAL*, Prisma* and HPS200 colours. Plus full Accent range.

* N.B. Prisma and RAL sheets can be supplied with a strippable film for protection during manufacture and erection.

Liner profiles



19/1000mm



20/1066mm (or 914)

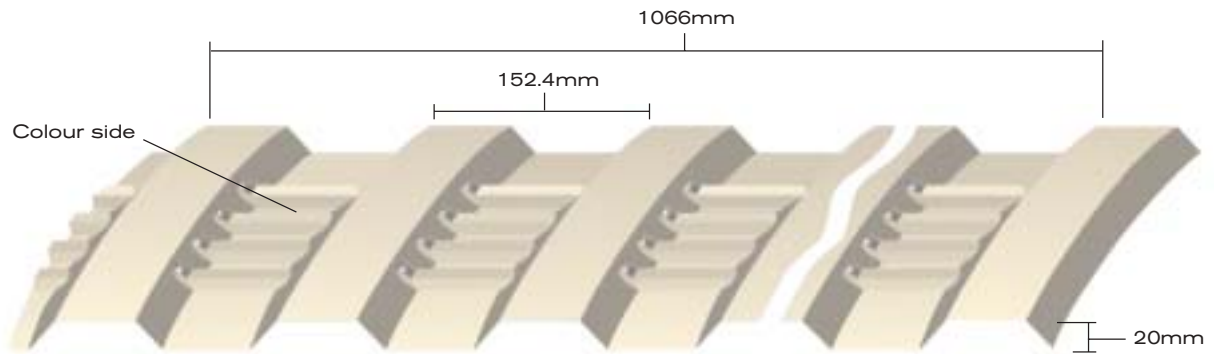
The liner profiles are available curved in 914mm, 1000mm and 1066mm cover widths. This allows a perfect match to be maintained whichever outer trapezoidal sheet has been specified. The use of curved internal liner panels allows the dynamic impact of the exterior sheeting to be subtly endorsed lending a unity to the whole structure.

In addition to the striking aesthetic appeal the use of the curved liner panel eradicates the need for ridge and eave flashing, together with the necessary fillers. This is not only cost effective but also significantly reduces potential areas where dirt or dust could collect, which is often a critical factor, dependent on the building's intended use.

Instant reference	
Gauges	.4mm (.5mm and .7mm subject to availability)
Cover width	914/1,066/1,000mm
Depth	20mm or 19mm
Maximum sheet length	6,500mm
Minimum leg length	76mm
Span capability	As detailed in the 'Roof Profiles' leaflet
Minimum radius	225mm
Colour finish	All standard colours in: RAL*, Prisma* and HPS200 colours. Plus full Accent range.

* N.B. Prisma and RAL sheets can be supplied with a strippable film for protection during manufacture and erection.

20/1066mm forward



All angles 135°

The 20mm profile is available in the 1066mm cover width. Not suitable as a roof profile its broad crest feature produces a bold appearance with minimal shadow effect, all the essential requirements of vertical cladding.

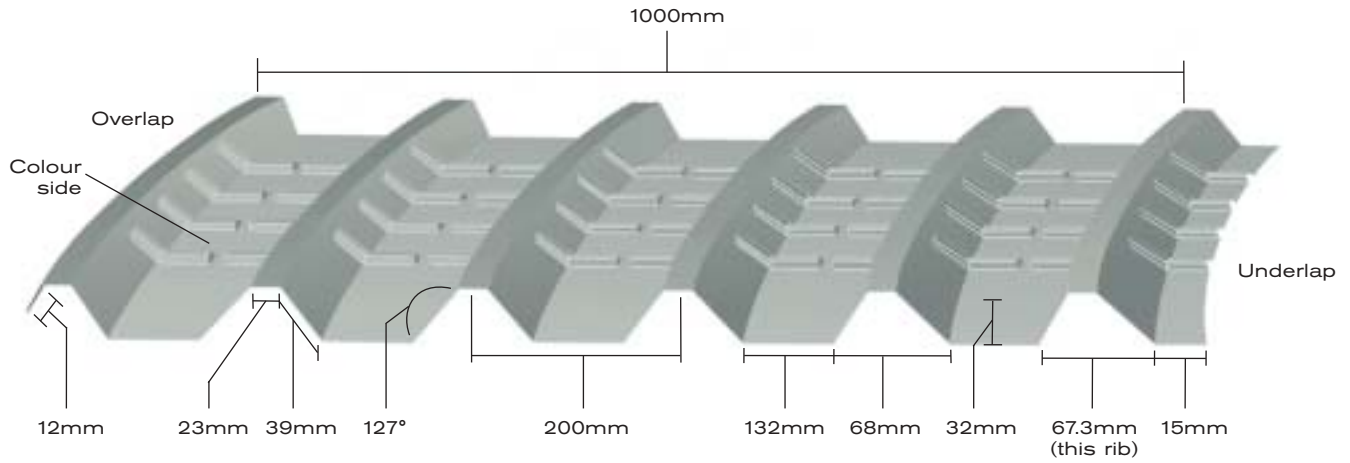
It is ideally suited to the parapet wall feature or wherever the curved vertical panels are independent of the roof profile. It has been used extensively as horizontal cladding and on soffit details.

Instant reference	
Gauges	.5/.7mm
Cover width	1,066mm
Depth	20mm
Maximum sheet length	6,500mm
Minimum leg length	76mm
Span capability	As detailed in the 'Roof Profiles' leaflet
Minimum radius	250mm
Colour finish	All standard colours in: RAL*, Prisma* and HPS200 colours. Plus full Accent range.

* N.B. Prisma and RAL sheets can be supplied with a strippable film for protection during manufacture and erection.



MW5



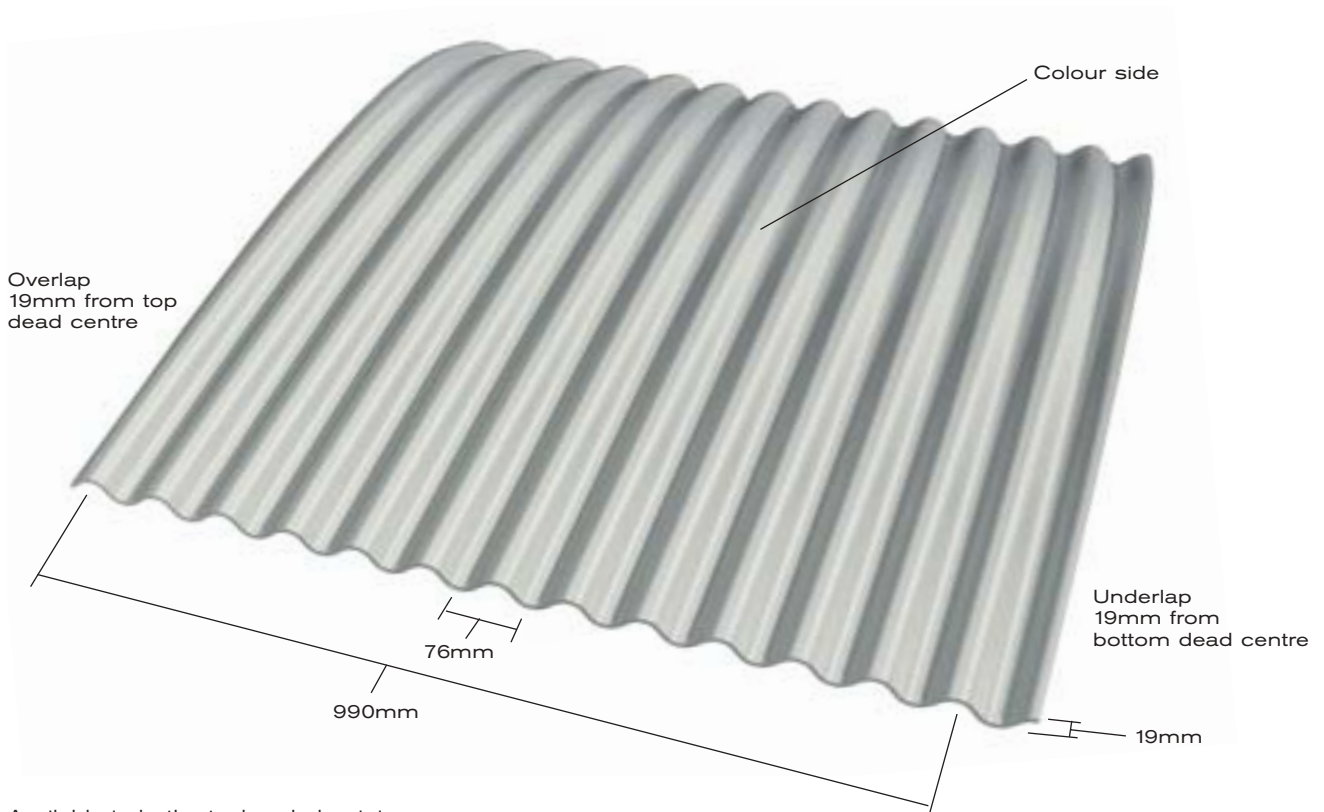
The versatile and popular MW5 profile can be used for roof or wall applications and can be curved externally or internally.

Instant reference	
Gauges	.5/.7/.9mm
Cover width	1,000mm
Depth	32mm
Maximum sheet length	6,500mm
Minimum leg length	76mm
Span capability	As detailed in the 'Roof Profiles' leaflet
Minimum radius	250mm
Colour finish	All standard colours in: RAL*, Prisma* and HPS200 colours. Plus full Accent range.

* N.B. Prisma and RAL sheets can be supplied with a strippable film for protection during manufacture and erection.



EC 13^{1/2}/3



Available in both steel and aluminium.

Curving

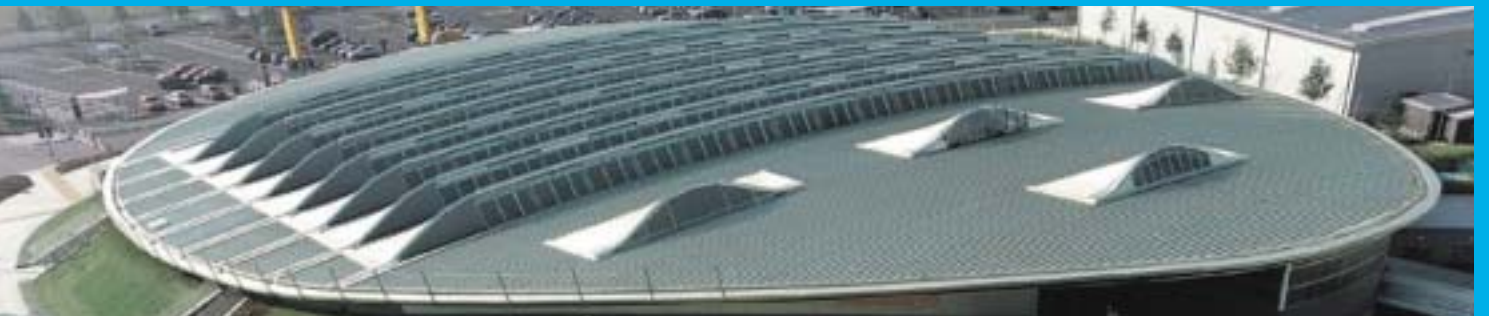
Corrugated profile can be curved to almost infinite radii to a minimum radius of 2m.

For radii under 2m please contact the Euroclad technical department.

Instant reference	
Gauges	.5/.7/.9mm
Cover width	1,000mm
Depth	32mm
Maximum sheet length	4,000mm
Minimum sheet length	500mm
Span capability	As detailed in the 'Roof Profiles' leaflet
Minimum radius	2,000mm
Colour finish	All standard colours in: RAL*, Prisma* and HPS200 colours. Plus full Accent range.

* N.B. Prisma and RAL sheets can be supplied with a strippable film for protection during manufacture and erection.





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