

Metal profiled sheet



Metal profiled sheets can be used in a wide variety of roofing and side cladding applications and over the years, we've supplied many thousands of metres for factories, barns, workshops, garden sheds and yes even domestic houses! Some of the more high profile projects include those at National Trust properties, Wimbledon Centre Court, Hinckley power station and Cheltenham Racecourse.

Main features

It's strong, lightweight, lasts for years, it's a relatively straightforward to install using simple tools, available in a choice of colours and finishes, and orders can be tailored to your requirements... pretty impressive or what?!

It's adaptable too, so when a **thermal barrier** is needed to prevent condensation (eg where the air inside the building is warmer than outside, such as in livestock buildings or heated premises), choose between having a **flocked finish** bonded to the underside of the sheet, or installing the sheet on top of **rigid insulation board**. Either of these is an effective solution and ideal when the design doesn't run to composite panels or the structure isn't suitable for fibre cement. We can advise you on price of the different systems to help you decide.

How's it made?

We manufacture sheets from coils of flat coated steel which are processed through a roll forming machine, putting in the profiles or pattern and giving the sheet its strength. We can make almost any length of sheet, from 500mm to 9000mm plus, and really the only limiting factor on length is transportation and handling of very long sheets. But most things are possible, at a price. And being able to select the *exact* length you require means that joining sheets down the run of the roof are a thing of the past – and this can only be a good thing!

Tile effect sheeting goes through a brake-press to form the tile look, but as with other profiles, it all starts of from the same base material.

Which Profile?

With over 300 box profile and corrugated patterns available, you can tell there's plenty of variety! But unless you are specifically matching an existing sheet, (ie if you need to fit them 'end to end' to extend the run of the roof), the actual profile you use is not usually critical. Most are described by the cover the sheet gives when lapped side by side, usually 1000mm, and the height of the bump or profile, say 34mm. So this profile is known as 1000-34 or 34-1000. Many of the patterns only vary slightly from each other (due to the variations of roll forming machinery between manufacturers) and unless you a 'profile anorak' you probably won't be able to tell one from another. So don't get bogged down with the choice, as the fact is most roofing profiles do the same really good job in lots of applications. Our range means we will have something suitable for you even if you requirements are of a specialist nature. See the [Profile Summary](#) for details.

And where an absolute match is required, with our possibly unhealthy knowledge of profiles, we offer an identification service. All we need is a trace on paper of the profile and some basic measurements. Please call for more details.

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What about cost?

Metal sheeting offers great value for money and as manufacturers we are able to offer competitive prices. In the current economic climate prices are changing daily, so please ring for an up to date quote. Each project is unique and we'd rather hear from you early on in the planning stage so you know of all the options, are aware of ways to cut cost without cutting corners, so that you end up with an accurate idea of the final price. Here are some factors which affect pricing.

Factors affecting price are:

Sheet thickness (there are several)	Quantity required
Quality (seconds with slight paint blemishes are available)	Delivery address
Profile	Stock availability
Length if very long lengths are required	

Colours and Coatings

Under the top coat of polyester and plastic finishes, all material has undergone a number of base coatings before being galvanised and then top coated. As they are most popular, we carry the standard range of colours which are selected to blend into the surroundings with many more colours available. If you or your customer has set their heart on a specialist colour, it's all very achievable but it's likely to have a price implication. There are differing tolerances for the coatings and we can advise on the most suitable one for your project, but unless the type of coating has been specified, the one you choose will mainly come down to personal choice of colour, and of course, your budget. This link will take you to the [gallery](#) so you can take a look of what finished projects look like using this product.

Polyester - Overall a polyester or painted finish is a cheaper option than plastic coated, and while there is no official guarantee on this product, our experience shows that this product is long lasting. Click here for a polyester [colour chart](#) Factors affecting its useful life expectancy include aspect, proximity to the coast, pollution, and physical damage (eg from overhanging branches). One huge benefit is that if after 10 years the finish needs perking up, it's a simple matter of a coat of paint. But you should be aware that polyester sheets need careful handling during fitting, as the colour coat can be easily scratched. If this happens, the base coat will still be providing protection from the elements and we can supply touch up paint.

Plastic coated - This is a more robust finish than polyester and it's always specified on projects where a guarantee of life span is required. Take a look at the [colour chart](#) see the range of standard colours and different embossed finishes. Many cladding contractors prefer using this tougher finish as it makes for easier fitting, but bear in mind that if after many years the coating starts coming off, there's not much you can do. We would expect it to last 15-25 years though we believe this could be far longer, and it's worth mentioning that the coating manufacturer's lifespan guarantee is conditional upon ongoing treatment and cleaning. (Are you really going to wash it with warm soapy water every couple of years?).

How long from order to delivery or collection?

We know that once you've decided on the sheeting, you'll want to get your project started as soon as possible. Generally speaking lead-time is seven working days after you place your order, although times may be extended if we are making bespoke flashings for you, or waiting for coil stock to come in. We will always do our best and keep you informed. Collection of orders from our yard can speed things up considerably.

Not sure what you're going need for your project?

While we have many long term customers, we're used to dealing with people who haven't 'talked tin' before. Take a look at the following list of components which are used in sheeting projects. You may only need some of them but you will need to have thought about whether you need them all or not! We can talk you through the project and can deliver any of these products or the whole package if you want us to.

- [Z Purlins](#)
- [Translucent rooflights](#)
- [Ridges and barges](#)
- [Insulation](#)
- [Tec screws](#)
- [Foam fillers](#)
- Guttering ([plastic](#) and [made-to-measure](#) metals are both available)

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Handling and storage

All site H&S procedures, manual handling and risk assessments should be adhered to.

Sheets will be bundle into packs with a cover sheet on top and banded together. The cover sheet can be of a different type and colour, so check through the pack for colour of sheets. Unless otherwise requested, maximum pack size is 2 tonnes. They will be stored on wooden bearers to separate each pack and on delivery we recommend that if they are not being fitted immediately that they be stored under cover where they will not get damaged.

When fitting, check all dimensions before fitting, **lifting** each sheet as dragging can damage the coating.

FIXING NOTES

With over thirty years' experience, here are some of the tricks of the trade, which will save you both time and frustration when fixing box profile and corrugated sheets:-



- Roof pitch should be more than **5 degrees** and if you can achieve more angle, even better.
- Roofing sheets are fixed onto purlins running across the roof (not rafters which run down the roof!)
- [Purlins](#) can be of timber, steel or light steel Z purlin.
- When spacing purlins, use a minimum of 4 foot (1.2m) centres between them
- Always use a [self-tapping tec screws](#) designed for the type of purlin you're fixing into.
- Always fix Box Profile sheeting through the bottom of the profile, directly into purlin as this prevents sheet distortion.
- Corrugated sheets are always fitted through the top of the corrugation.
- As a rule of thumb, use 4 fixings in the first and last purlin and 3 on every other.
- Start fixing sheets at the end of the building away from the prevailing wind so that the overlap is facing downwind.
- Where you overlap the sheets, the short overlap goes on top and the sheets are fixed in the trough, either side of the overlap using the standard longer tec screws. The joint itself is then fixed together with shorter tec screw known as stitchers to give a bullet-proof join.
- When fixing [ridge and barge flashings](#), use stitcher tecs to 'stitch' directly to the sheets rather than to the purlin at about 400mm centres. This will prevent long screws from kinking the sheet.
- For some jobs, you may need to seal the laps with mastic.
- It's easy to install rigid [insulation](#) under metal sheeting to prevent condensation and to keep heat both in and out.
- Think about how much natural light you will need and plan [rooflights](#) from the beginning. Although they can be fitted retrospectively it's much less hassle to do it now.
- If you need to, metal sheeting is best cut with a powered nibbler. These hand tools are easy to get hold of from your local plant hire shop, and are best because they cut without leaving a burred edge. We recommend that you don't use an angle grinder as this will burn the paint and galvanising, resulting in rust appearing on your sheet
- We can make [bespoke metal gutters](#) for valleys and difficult corners which may well need to be fitted before you start sheeting.

Your notes on Metal Profiled sheet: