

# Considerations

## Lengths

Panels can be supplied in length up to 12 metres long. Longer if transporting them to site is possible.

For TSS Panels® on site panel roll forming may be a better option for very long panels.

When ordering panels ensure to allow for any additional length that requires folding such as at the eaves, upstands or at the bottom of wall panels/top of windows.

Small panels can be ordered below 1000mm long

\*Note these are charged at the metre rate. Ordering longer panels to cut down on site would reduce cost.

## Profiles & Cover Widths

STS Panels® - 25mm x 425mm - 38mm x 386mm

TSS Panels® - 25mm x 430mm - 25mm x 530mm

Reveal Panels - Approx 300mm face, including shadow gap.

\*Custom widths are available, when the dimension is less than the standard cover width for that profile.

## Extra Panels

It may be worth considering ordering extra panels in case a mistake is made, or should some get damaged on site.

Consider that it will cost less to order extra panels with the initial order than it will to order more later.

Ordering panels after the initial order may delay a projects completion if the current lead time is long.

It could also mean having to pay the same pallet delivery cost as the initial order if the same pallet size is required.

## Panel Quantities

Work out the number of panels required by taking the width of the area in millimetres, **For example** 10 metres wide = 10000 millimetres, divided by the cover width of the panel 425mm.

$10000\text{mm} / 425\text{mm} = 23.52$  panels,

this is rounded up to 24 panels.

## Touch Up Paints

When touch up paints are available.

One stick is automatically added to a quote.

In case minor damage occurs, before or during installing.

## Reveal Panels

Normally supplied in material 1mm thick in standard cover widths related to the metal coil size being used.

**For example**

Greencoat S280 Pural BT can have a max cover width of 306mm including a shadow gap of 0 to 20mm.

Cover widths can be reduced but cannot be made greater than the standard cover width dimension.

## Flashings Details

Standard flashings are supplied in 2000mm lengths, we can supply in other lengths if required.

Up to 4000mm long may be possible but will need to be confirmed for the flashing in question.

Ridge, mono ridge, roof abutment flashings, come with a butt strap for joining together rather than overlapping & a galv liner ( 2000mm lengths )

Other flashings may require overlapping such as at the eaves/verge in which case allow 100mm for overlapping.

## Flashing Drawings

Drawings are required for ordering flashings, that clearly show all dimensions, angles/finish side.

Order standard flashings, by selecting the relevant drawing from the available templates.

Then add the missing dimensions and any angles to the drawings to suit your projects requirements.

For any custom flashing requirements please supply drawings that are clear and easy to read.

Without missing dimensions or angles!

## Rainwater Goods

Standard gutter components such as greenline can be ordered, just let us know how many of each components are required.

**Note:** Brackets to be fixed at distances no greater than 600 mm. Successful water drainage requires the gutter drop towards the downpipe should be 3–5 mm per running metre.

For bespoke gutter systems we require a drawing to be provided.

## Wall Capping

Custom wall capping is limited in width by the coil sizes available to fabricate the capping from.

We recommend a minimum face depth of 75mm either side, each side has a fold section of 25mm,

so if a 600mm coil is available for example,  $25+25+75+75 = 200$  so  $600 - 200 = 400$ mm max capping width.

To book a wall capping order in for fabrications we require an accurate wall capping plan to work from.

Bare in mind when working out the external dimension to allow for the width of the panels seam adding to the boarded structure as well as ensuring enough space to get tools in to fold the capping to the liner.

# Considerations

## Preparation

Before commencing the installation ensure that the substrate works are of a suitable standard to support the system.

Any defects to the substrate left unresolved before installation may affect the quality and / or performance of the system.

Make sure that the substrate is correctly prepared;

- Check for flatness of the surface
- No steps or large gaps between boards / panels.
- No spring in the boards / panels
- No protruding screws or nail heads
- Surface is dry

## Cutting

Suitable cutting tools must be used for the material.

For example using left and right handed tin snips, or other styles of snips or metal shears..

Grinders must not be used to cut, as sparks / metal filings can damage the surface.

## Carrying Panels

Panels should be carried on their edge at all times, so as to avoid damage or bending.

Panels must NEVER be handled or carried face up or face down.

Although panels are lightweight they ideally should be carried by two persons for shorter panels , and more than two people for longer panels..

## Setting Out

Before commencing the installation it is important that the setting out of the panels is considered, to avoid any clashes with rooflights, penetrations or windows, doors or other elements.

Roofs are normally set out with an equal panel at either end, larger than half panel width.

## Tooling

It's important that good tooling, is used to install the materials.

## Delivery & Storage

Panels are delivered to site flat on the back of a rigid vehicle or trailer.

Easy access must be provided to allow the panels to be unloaded safely and without damage.

Panels must be checked for visible defects before unloading and any discrepancies or damage must be reported to the office immediately.

Panels should be stored on a clean, flat, dry surface. Panels stored whilst wet may develop staining to the surface, which in most cases cannot be removed.

No liability will be accepted for damage caused by improper handling or storage.

## Substrates

TSS Panels® & STS Panels® can be mounted on all roof build-ups, the only pre-requisite being that it is fully supported;

- Ventilated 18mm wbp plwood, OSB3 or softwood boards.
- Hard Metal Board
- Composite Panel
- SIPS Panel
- Rigid Insulation
- Cellular Glass Insulation

## Training

Merlin Metals are material suppliers not installers.

While we are planning on providing more install information via the documents section at [merlinmetals.com](http://merlinmetals.com). Training in the installation of the systems we supply is highly encouraged.

Contact us for details about the training provider we recommended.

## Maintenance

The systems we offer provide a low maintenance long lasting solution.

The following points should be noted;

- Annual inspection would be a common-sense approach
- Check security of panels / flashings / sealants
- Check for leaf / debris build-up
- Check for mechanical / substance damage caused by external factors

## Underlays

The following underlays are recommended;

Facades – ISO-Mat Pro

Ventilated Roofs – ISO-Mat Pro

Non-ventilated roofs – ISO-Mat Metal