



MAXLINE USED AS ROOF & WALL CLADDING

INSTALLATION | ROOF SHEET APPLICATION

Care should be taken when installing Maxline 340 as it has been chosen for its aesthetic performance. As the strongest flat pan profile in Australia the Maxline 340 is fully trafficable however care still needs to be taken when walking in the pans of the sheet, it is advisable to use crawl boards during installation to minimise potential damage. As with most roofing profiles do not step or stand on the ribs of the Maxline 340.

For a Roof with a pitch less than 25 degree's Revolution by Design recommend to install the Maxline Roofing Spine system, refer specific installation instructions regarding the Maxline Spine (pg 3).

Ensure the purlins are at the appropriate spacing and they are level so not to cause distortion when installing the Maxline sheets. Install 5 – 6 sheets and then check the aesthetics of the Maxline profile, should there be excessive oil canning stop and check the clips are straight and that the purlins are level. If any purlins are found to be out of alignment they should be fixed before proceeding further.

Anticon/Roof Insulation can be installed under Maxline 340 when installed as a Roof Sheeting, however if the insulation is thicker than 55mm a thermal spacer should be installed. Check with the Thermal Spacer manufacture that the chosen Spacer is suitable to be used because many products on the market are not designed to be installed on a roof pitch greater than 5 degrees.



Solar Panel installation clamps designed to be used with Maxline 340 are available from Mak Fasteners:
www.makfasteners.com.au



Fall Protection and Static Lines compatible for Maxline 340 are available from Safety Link:
www.safetylink.com

INSTALLATION | WALL CLADDING APPLICATION

Maxline 340 is intended to be installed as a vertical wall cladding. Whilst it can be installed horizontally the aesthetic performance of the profile will be different than when installed vertically and should be considered before choosing this profile.

Revolution by Design suggest installing 5 - 6 sheets of Maxline and check the aesthetic performance of the profile before proceeding with the entire installation. At this point a determination can be made whether to proceed, or if the foam padding needs to be removed, or if the substrate requires attention.

The foam padding on the Maxline 340 concealed clip can be removed when installing as a Wall Cladding as it does not serve a functional purpose for this application. During installation if the foam padding is causing interference or causing the pan to bulge Revolution by Design advise removing the foam.

When installing Maxline 340 the installer should first check that the substrate is level and pack out any areas which are higher or lower.

Maxline 340 should be installed on top hats or battens rather than direct to the structure, typically studwork or structural steel is not installed flush expands and contract at a different rate to the wall cladding causing aesthetic issues.

The Top Hats/Battens still need to be checked to ensure they are aligned and flush before starting installation, any discrepancies should be packed out before commencing installation of the wall cladding.

Once the substrate is level the installer should stringline the first row of clips ensuring all clips are in line, this practice should be repeated throughout the installation to ensure the clips are installed in line throughout.

Distortion in the substrate that is not dealt with before installing the Maxline 340 will cause oil canning and distortion in the profile and can lead to the finished product being rejected.

INSTALLATION | MINIMISING OIL CANNING

Oil Canning is an inherent characteristic of metal wall cladding and roof sheeting which have broad flat areas; oil canning is often the term given to distortion or waviness in the pan of the sheet.

There are measures that can be taken during design and installation to minimise the risk of oil canning such as ensuring the substrate is flush, the panels are fixed vertically, limiting the continuous length of each panel, and choosing an installer who has experience with installing architectural profiles. Knowledge of thermal movement, material performance, and installation techniques are critical for aesthetic performance of the profile.

Despite the above measures Revolution by Design cannot guarantee that oil canning will be eliminated because it can also be caused in the manufacture or slitting of the flat coil, manual handling during Production or Installation and by the ambient temperature at the time of installation, or viewing of the profile.

The functional performance of the Maxline 340 is not compromised by oil canning and as such will not be a reason for rejection of the panels.



INSTALLATION | MAXLINE SPINE

Maxline 340 was introduced to Australia in 2012 as the first fully trafficable flat pan profile in Australia which was designed to span purlins without the requirement of a plywood substrate.

The aesthetic performance of any flat pan profile is just as critical as the physical performance so Revolution by Design have developed the Maxline 340 Roofing Spine to ensure the best finished result.

A Maxline Roofing Spine installed under the Maxline 340 profile ensures the appearance of the flat pan looks the same on every roof and is the model for consistency.

FAQ's

- A Maxline Roof Spine should be installed on a roof with a pitch less than 25 degrees, a roof pitch greater than 25 degrees does not require a Maxline Roof Spine.
- The purlin spacing does not change because the Maxline Roof Spine it is not a structural member of the roof.
- The Maxline Roof Spine is not required if installing Maxline 340 as a Wall Cladding.

INSTALLATION | MAXLINE SPINE

STEP ONE.

Install the first row of clips as per standard installation instructions.

STEP TWO.

Starting from the first ridge purlin, position the Maxline Roof Spine on top of the Maxline clips as close to the centre of the clip as possible and run continuously to the last purlin before the gutter line.

The Maxline Roof Spines are 6.0m in length so if the Maxline 340 roof sheet is longer than 6.0m you will require multiple roof spines. To join two Maxline Roof Spines they are simply butted up on top of a purlin, never start or end a Maxline Roof Spine mid span.

Do not positively fix the Maxline Roof Spine to the clip, the Maxline 340 sheet will hold it in place.



STEP THREE.

Install the Maxline 340 sheet on to the clip as per standard installation instructions.

To calculate the amount of Maxline Roof Spine required simply add up the lineal metres of sheets on your order, remember to allow for some waste on site, especially if the Maxline sheets are longer than 6.0m from ridge to gutter.

NOTES.

- The Maxline Roof Spines are 6.0m long so for sheets longer than 6.0m multiple Maxline Spines will be required. The spines would be butted up on the purlin, not mid span.
- When ordering Maxline Spines ensure you calculate a lineal metre of Maxline Spine for every lineal metre of Maxline 340 plus an allowance for waste.
- A Maxline roof sheet with the Maxline Roof Spine is still fully trafficable however Revolution by Design always recommend taking care when walking on a roof to avoid any foot traffic damage.

