

FR Panel - Installation Instructions

FR panel metal sheeting profiles may be installed horizontally or vertically on building walls and /or roof. Special attention must be given as to how the sheets are overlapped, as seen in diagram A. First overlap the panels covering the anti siphon side lap. Next while applying pressure, fasten the overlapping side. Fasten the remainder of the sheet towards the under lap side. When the correct pressure is used, all the joints will be inconspicuous and water tight.

Side Overlap Detail A:



With roof and wall applications, start installing at the end of the building opposite to the direction of the prevailing wind. With horizontal wall applications, start installing the panels at ground level and work up. For maximum girt spacing for walls and roofs refer to product load tables. The minimum slope to which the FR profile steel should be applied is 1/12.

FR profile sheets should be no longer than 25' to minimize the effect of metal expansion and contraction. This length is also easier to handle during installation. In situations where longer lengths are required, the ends will be overlapped. On roofs, the distance of end overlap varies with the amount of slope. When the slope is from 2"-2.5" an end overlap of 12" is required, a 2.5"-4" slope requires a 9" overlap, and a 4" slope requires a 6" overlap.

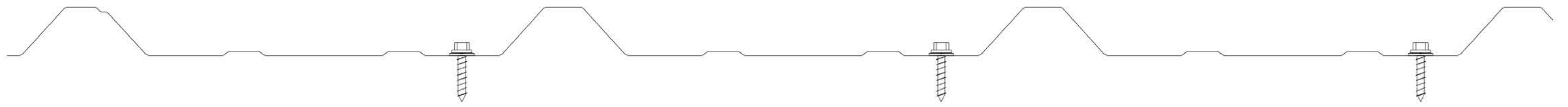
To further moisture proof the building, a recommended sealing tape or caulking may be installed on all overlapping edges. Side edge overlaps should be caulked at the top of the rib, while end overlaps should be caulked at the ends of both the top and bottom sheet.

Fasteners:

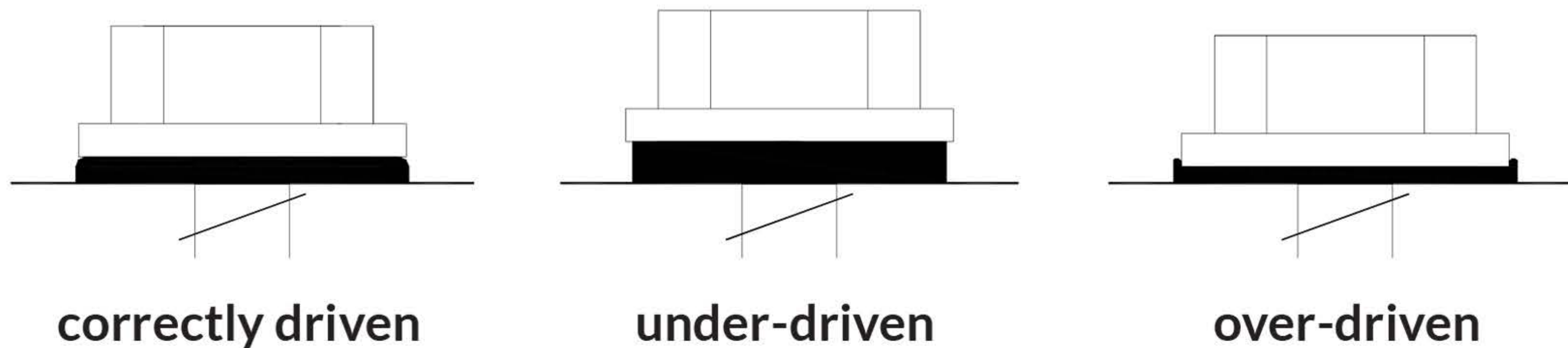
Screw fasteners of 1" to 2" length are placed beside every high rib on the width of the sheet and at each grid or purlin as per diagram B on the reverse side of this sheet. To estimate the quantity of screw fasteners required, estimate 1 screw per square foot of cladding. Screws should be installed to firmly hold the cladding, but must not be overdriven as this will cause the washers to squeeze out or dent the cladding. Panels should always be fastened to a rigid backing, not onto a backing of old shingles or insulation for example.

DETAIL B:

FR PANEL PROFILE



Proper Installation of Fasteners



Cutting:

Because the underside is flatter it is recommended that roofing and siding be cut from this side. A power saw, nibbler, snips or profile shear may be used. Be sure to clean metal filings from off the panels to prevent unsightly stains.

Storage Instructions:

If the panels are not going to be used immediately, they should be stored in a dry well ventilated area. If it is not possible to store the material inside, block up the panels to allow air movement around the packages. Also raise one side of the bundles to ensure positive draining, and use a good quality cover (other than plastic) anchored loosely to protect the material and still allow ventilation. Store away from aggressive substances and any other materials that could contaminate the surface of the panels.

Application Precautions:

Metal installed with screw fasteners should be fastened onto a solid backing. Avoid installing directly over green, damp or ACQ lumber, porous insulation or other damaging materials. The use of a moisture barrier (such as Ice & Water Shield) is recommended in such situations. Strong chemicals, fertilizers, manure, some soils, and lime may cause premature deterioration. Installation near such materials is not recommended.

Warning:

Material is slippery and has sharp edges, use extreme caution when handling or installing. Avoid working with sheet metal products on windy days. In some areas, snow stops may need to be added to prevent snow or ice, from sliding off roofs, damaging eaves troughs or falling on objects below.

Sealant Compatibility Notice:

To ensure longevity and integrity of your installation, please adhere to the following sealant guidelines:

DO NOT USE Acetoxy-Cure Silicones:

Avoid sealants that release acetic acid during the curing process. The use of acetoxy sealants can lead to cut edge rusting, permanent acid etching, corrosion or discolouration of surfaces and finishes.

RECOMMENDED:

Non-skinning butyls: Use non-skinning butyl sealants, designed for metal roofing, for concealed laps and joints. Non-skinning sealants remain permanently flexible and tacky to accommodate panel movement. Please note butyl sealants should not be placed in areas exposed to UV light.

Butyl Tape: The use of butyl tape is recommended in similar instances of non-skinning butyls, when application of thick beads of non-skinning butyls is not practical. Butyl tapes work well along long runs and perform well when applied to the side laps of exposed fastener panels. Please note butyl sealants should not be placed in areas exposed to UV light.

Neutral Cure Silicones Designed for Metal Roofing: Use high quality, neutral-cure options specifically designed for metal roofing as required for pipe flashing and perimeter sealing, where UV exposure is a concern. Silicones should be limited in their use, and only used when non-skinning butyl or butyl tape is not practical due to UV exposure.

Failure to use the correct sealant may damage the product surface and void your warranty.