

MATERIAL OVERVIEW

Material Description

Weathering Steel is known as High-Strength, Low-Alloy, Cold-Rolled, with Improved Atmospheric Corrosion Resistance, per ASTM A 606-18, Type 4.

Weathering Steel is produced by steel mills under trade names of Corten, Kupten, Triacor and others.

Weathering Steel develops a pleasing iron oxide matte finish over the first few months of exposure to the environment. This finish is developed by natural processes and may result in a non-uniform appearance.

Minimum Mechanical Properties

Tensile Strength: 65 ksi

Yield Strength: 45 ksi

Elongation: 20%

Coil Sizes Available

Minimum Thickness: 0.0296"

Widths: 28" and 45.75"

Profiles Available

7/8" Corrugated

2.5" Corrugated

Vertical Seam

Contact your local branch for other panel options

Chemical Composition

Carbon 0.26% min

Manganese 1.25% min

Sulfur 0.04% min

Copper 0.18% min

Other alloying elements added at discretion of manufacturer.

THE EXPECTED USEFUL LIFE OF WEATHERING STEEL PANELS IS DIFFICULT TO DETERMINE DUE TO THE VARIATION IN ENVIRONMENTAL CONDITIONS AND INSTALLATION PRACTICES. BECAUSE OF THIS DIFFICULTY, NO WARRANTY NOR ESTIMATE OF USEFUL LIFE IS AVAILABLE FOR WEATHERING STEEL.

Application Recommendations

Weathering Steel products should have a minimum slope of 3:12 to allow water to run off.

Where multiple layers of material exist, sealant should be used to minimize the potential for capillary action.

Water running off of Weathering Steel should be diverted from other building materials such as concrete and stucco due to the potential for staining.

Weathering Steel products should be fastened with unplated stainless steel, Type 410 fasteners with neoprene washers.

Load Tables are not available for products made of Weathering Steel. As the material rusts, the thickness is reduced, reducing allowable capacity.

Corrosion Data

Saltwater, lead, copper and standing water are corrosive to Weathering Steel.

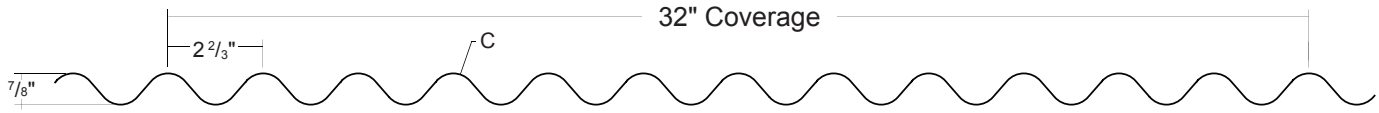
Weathering Steel surfaces that are continuously wet will corrode at an accelerated rate. Examples include: water trapped by debris, standing water, and water held by capillary action between layers of Weathering Steel panels and trim.



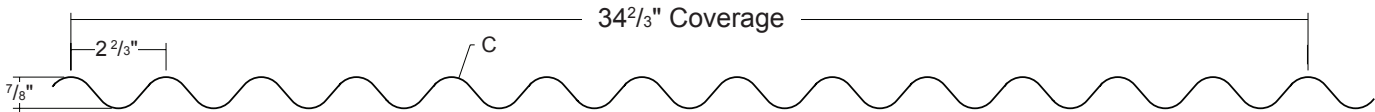
WEATHERING STEEL

Condensed
Technical
Reference

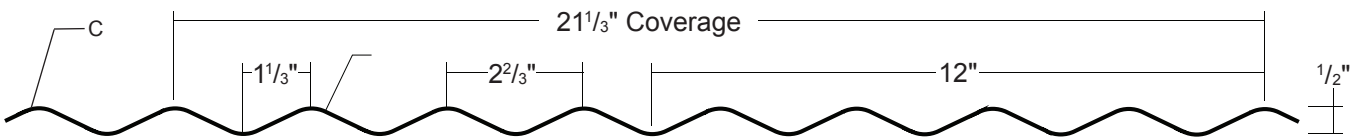
7/8" CORRUGATED ROOF PANEL



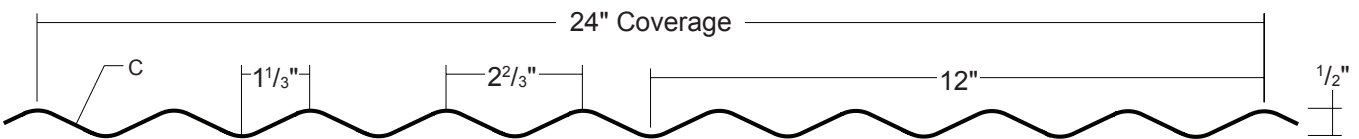
7/8" CORRUGATED WALL PANEL



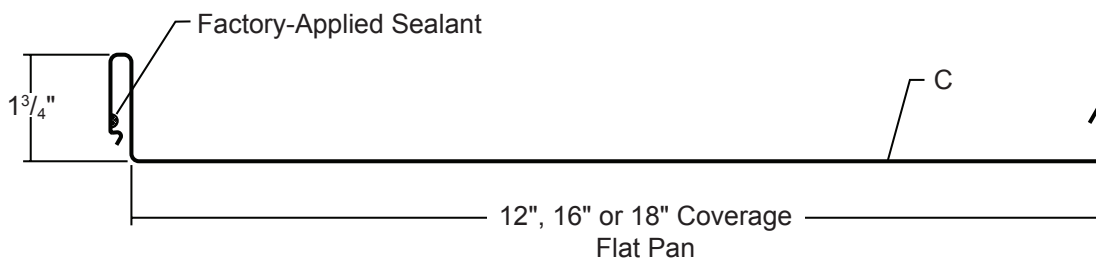
2.5" CORRUGATED ROOF PANEL



2.5" CORRUGATED WALL PANEL



VERTICAL SEAM ROOF PANEL



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