

**PROJECT SPECS****Surface type:** Metal**Size:** 72, 738 sq. ft.**Age:** Unknown**Location:** Fairfield, OH**Industry:** Auto**Solution:** Met-A-Sil (High-Solids)**PRODUCTS**

- Red Oxide Rust Prime 912
- Urethane Brush-Grade 522
- High Solids Silicone 412

## Penetrations can often cause unwanted rust or leaking issues, as in this roof.

**RESEARCH**

Serious rust and corrosion issues were revealed upon closer inspection around the penetrations in this standing seam metal roof.

The installing contractor chose Met-A-Sil as the solution for this roof. This system is formulated to seal, waterproof, and preserve metal roofs from the harmful effects of the sun, wind, and rain. The system's main component, Silicone 410 or High Solids Silicone 412, provides superior elemental protection for metal roofs. The contractor chose the high solids option for this particular job. The system's performance is the same no matter which silicone top coat is chosen. It is strictly the contractor's preference.

**PROCESS**

First, the entire roof was pressure-washed to remove all loose dirt and debris. Additionally, the contractor reinforced the deteriorated metal paneling and replaced/tightened all missing/loose fasteners. Then, the roof was primed with Red Oxide Rust Prime 912. This primer is designed for metal roofs with any rust or oxidation.

Urethane Brush-Grade 522 was applied to seams, transitions, penetrations, and fasteners. This product is a thick, flashing-grade mastic designed to tightly seal and waterproof any areas where leaks are most likely to occur.

Finally, two coats of High Solids Silicone 412 were applied to the roof. The building owner specifically requested a light grey top coat.

**RESULT**

After receiving the Met-A-Sil system, the roof now has an attractive, watertight finish with at least 15 years of extended life. It is now protected from any further rust or corrosion thanks to the Red Oxide Rust Prime 912. American WeatherStar issued a 15-year material warranty on the Met-A-Sil system.

The following photos show the roof before, during, and after the project. The customer chose light grey, but other colors are available. Check out our color chart online at [www.americanweatherstar.com/coatings-color-chart](http://www.americanweatherstar.com/coatings-color-chart).

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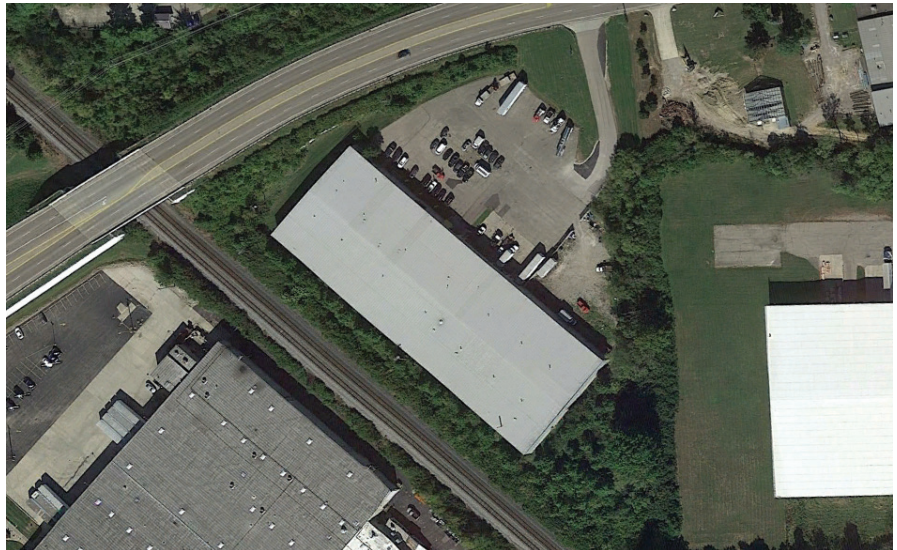
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Aerial View



Before

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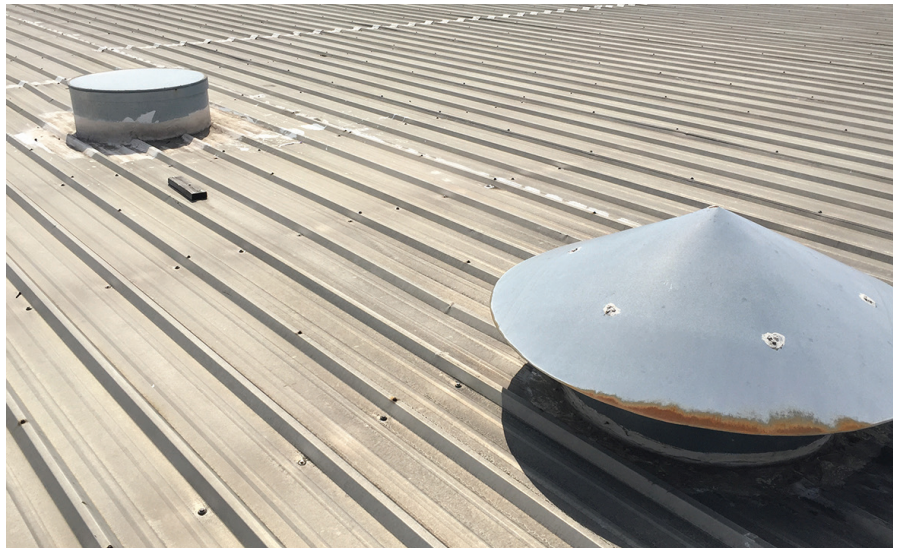
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Rusted Penetration



Rusted Penetration



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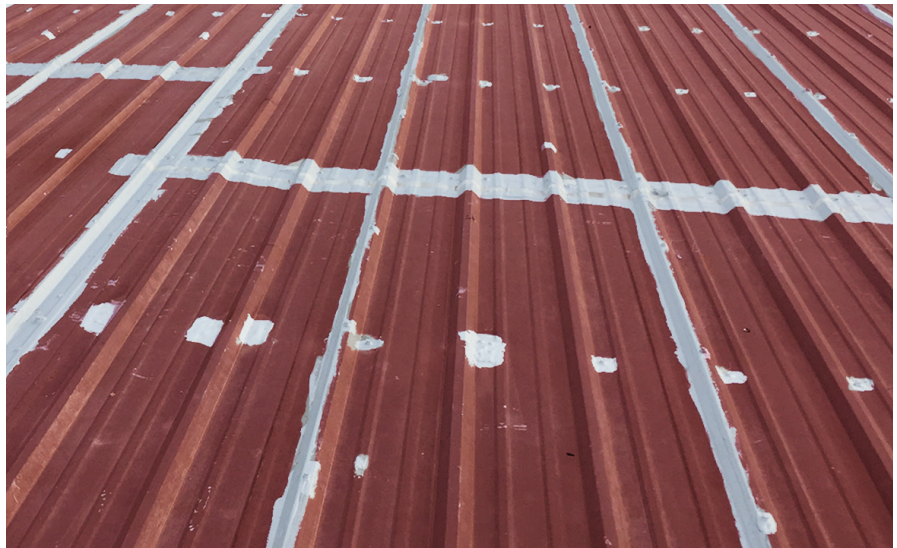
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Primer



Seams

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Top Coat



Penetration Detail



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Top Coat



Top Coat