

All roof substrates shall be sound, clean and dry prior to SMARTCOAT restoration. This detail is intended to provide specific instruction associated with preparation of a metal roof.

**Rust**

Clean the surface of rusted areas with a wire brush. In some cases, a wet cleaning maybe preferred, using SMARTCOAT 100 Roof Wash as needed. A solvent, such as Xylene, may also be introduced as needed. Remove all flaking material. NOTE: The surface will still have a rusted appearance once clean. Once clean and dry, SMARTCOAT 210 Universal Primer shall be utilized over any rusted surface prior to coating with SMARTCOAT 400 Series Coatings. See Figures 1 and 2.

**Panel Replacement or Repair**

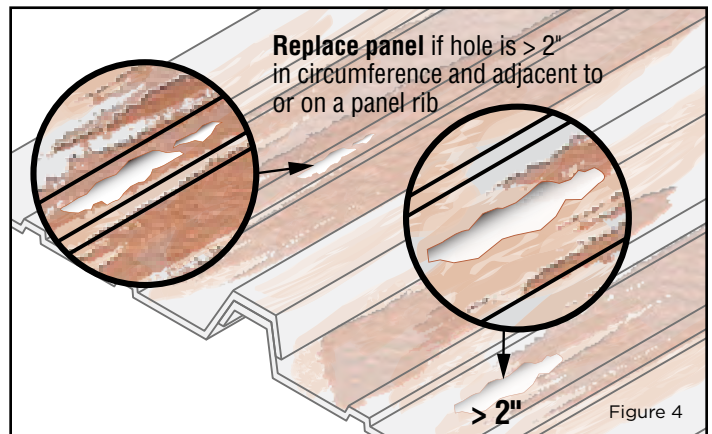
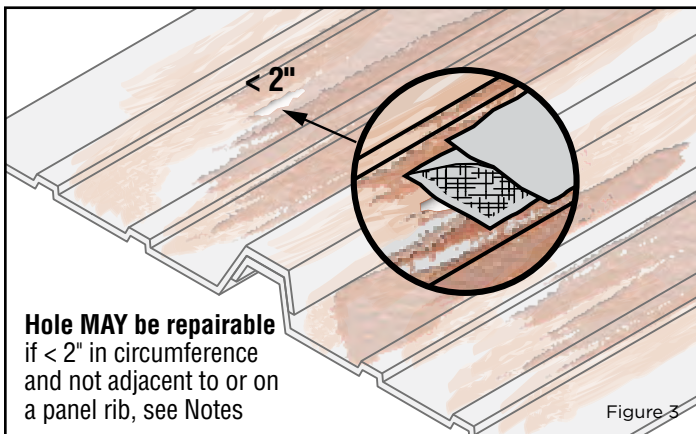
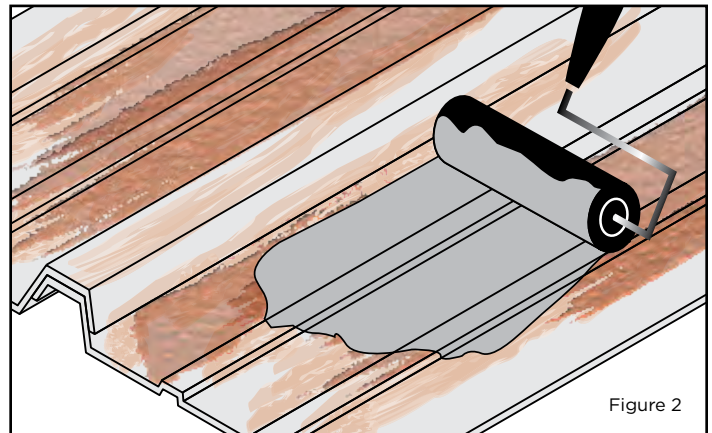
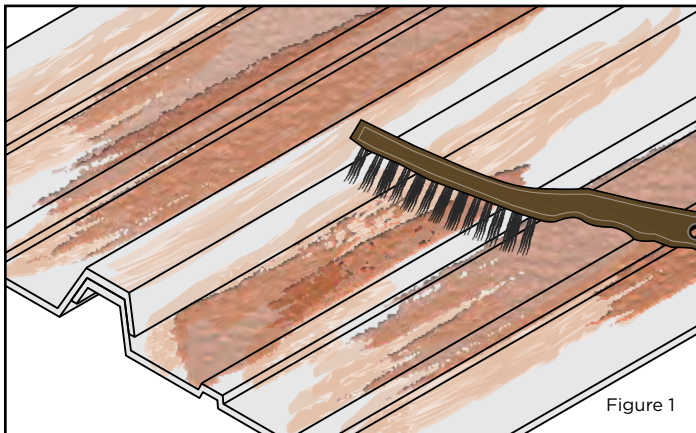
Existing metal roof panels shall be thoroughly inspected for deficiencies including but not limited to rust, dents, holes, etc. Inspection shall include both the top and bottom surface of the panel. In some cases, rusted panels will give way to holes.

Conditional Repair

If a hole is less than 2" in circumference, is not adjacent to or on a panel rib, and is not surrounded by blooming rust, the hole may be safe to repair with reinforced mastic (3-course), see Figure 3. Apply SMARTCOAT 300 Series Mastic with a brush, trowel or gloved hand at a maximum thickness of 1/8" for 300/301 Acrylic Mastic and 1/4" for 350/365 Silicone Mastic. After mastic is applied immediately embed SMARTFAB 500 Polyester Reinforcement, minimum 6" width, into wet mastic followed by a second coat of mastic at prescribed thickness to encapsulate edges and surface of polyester. Ensure the polyester is evenly covered and the edges of the detail are properly feathered. Please consult with CertainTeed's Technical Services Department for confirmation that a hole is safe to repair.

Panel Replacement

If a hole is greater than 2" in circumference, is adjacent to or on a panel rib, or if a hole is surrounded by blooming rust, the panel shall be replaced, see Figure 4.



NOT DRAWN TO SCALE