

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

07 40 00 METAL ROOFING AND SIDING PANELS

PART 1 - GENERAL

1.01 DESIGN CRITERIA

- A. Specify prefinished metal roofing and siding panels with one of the following joining mechanisms:
 - 1. Standing seam
 - 2. Batten seamed
 - 3. Screw-through metal panels require approval by the WSU Roofing Shop. Coordinate exception requests through the WSU Project Manager.
- B. Design in accordance with Cool Roof Rating Council (CRRC) requirements for Cool Roofs:
 - 1. Solar Reflectance (SR) = 29 or higher
 - 2. Thermal Emittance (TE) = 78 or higher

1.02 SPECIFIC REQUIREMENTS

- A. Wind Load Certification: In addition to the general “Design for Wind Load” requirements of section 07 00 00 “Thermal and Moisture Protection,” all metal roofing and siding panel materials and assemblies shall be certified UL 580 Class 90.
- B. Maintain current UL equipment certification for field-rolled panel forming equipment.

PART 2 - PRODUCTS

2.01 METAL ROOFING AND SIDING PANELS:

- A. 50 KSI grade, 24 gauge galvanized steel panels with factory-applied Polyvinylidene Fluoride (PVDF) 70% finish.
 - 1. Manufacturers: Kynar 500
 - 2. Alternatives require approval by WSU Roofing Shop. Coordinate exception requests through the WSU Project Manager.

PART 3 - EXECUTION

3.01 DELIVERY AND STORAGE

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- A. Unload, store, and install sheet metal and fabrications in a manner to prevent bending, warping, twisting and surface damage.

3.02 INSTALLATION

- A. Any exposed screws shall be provided with neoprene gaskets.
- B. Panels shall be connected and sealed watertight per manufacturer's recommendations.

3.03 WARRANTY

- A. See general warranty requirements under section 07 00 00 "Thermal and Moisture Protection."
- B. Additionally, manufacturer's warrantee shall state that finish will not chalk in excess of an eight rating or fade in excess of a five rating when tested in accordance with the most current adopted version of ASTM D4214.

END OF SECTION