

07 41 13 – Standing-Seam Metal Roof Panels

DIVISION 7 –Thermal and Moisture Protection



STATEMENT OF PURPOSE & BACKGROUND

- Scope:
 - All labor and materials necessary to install standing-seam metal roof panels as shown on Drawings and as specified.
- Revision history of section:
 - 01/08/2021 (date of adoption)

OUTLINE SPECIFICATION

- Part 1 General
 - Product delivery, storage and handling:
 - Transport, handle and store products in a manner which will keep materials dry and prevent damage.
 - Unload, store, and erect metal panels so as to prevent bending, warping, twisting and surface damage.
 - Stack metal panels horizontally on platforms or pallets, and cover with suitable weathertight and ventilated covering.
- Part 2 Products
 - Acceptable Manufacturers:
 - Basis of Design: Firestone Building Products, UNA-CLAD UC-6 Double-Lock Standing Seam roofing system
 - Berridge Manufacturing Company
 - Petersen Aluminum Corporation
 - Equivalent manufacturers **approved, in writing, in advance, by the Architect**, may be substituted in accordance with the provisions of the Contract.
 - Metallic-Coated Steel Sheet:
 - Zinc-coated (Galvanized) steel sheet, or aluminum-zinc alloy-coated steel sheet.
 - Nominal thickness 22-gauge.
 - Color: As selected by Architect from manufacturer's full range.
 - Clips: Two-piece clips of galvanized steel, interlockable with sheet, to accommodate thermal movement.
 - Panel coverage: 16 inches.
 - Panel seam height: 2 inches.
 - Underlayment Materials:
 - Self-adhering, cold-applied sheet underlayment, min. 40 mils thick.
 - GCP Applied Technologies (formerly Grace Construction Products); Grace Ice and Water Shield HT.
 - Felt underlayment
 - Miscellaneous Materials:
 - Installation clips for concealed securement of panels.
 - Clip fasteners: non-corrosive, 5/8 inch self-tapping screws.

- Fasteners shall be zinc-coated steel, aluminum, corrosion resisting steel or nylon-capped steel, as approved per manufacturer.
 - Finishes:
 - Steel Panels and Accessories:
 - Three-Coat Fluoropolymer finish with minimum 70 percent PVDF resin by weight in both color coat and clear topcoat.
 - Accessories:
 - Provide all accessories as recommended by panel manufacturer and as required for a complete system.
- Part 3 Execution
 - Coordinate installation of standing-seam metal roof panels with installation of other roofing materials and systems as described below.
 - Prior to start of roofing installation, a pre-installation conference shall be held on site with Architect, Owner, Construction Manager and roofing contractor to discuss procedures, installation methods, potential hazards, environmental concerns including odors and mitigation procedures, roofing schedule, and any other issues affecting roof installation.
 - Roofing contractor is to provide roof inspections and warranty data to Architect for approval at least 15 days prior to intended start date of roofing operations.
 - Apply roofing in dry weather and do not apply roofing when ambient temperature is below 10 degree F, per Consultant and / or manufacturer specification.
 - Inspections of surfaces. Examine roof deck surfaces for inadequate anchorage, foreign material, moisture, voids and unevenness or projections which would prevent the execution and quality of application of the specified roofing system.
 - Do not proceed with application of roofing system until defects in surface including leveling are corrected.
 - Roof test cuts not allowed. Roof inspector & manufacturer representative should be on site during all phases of installation to inspect condition of roof openings, curbs, roof jackets, pipe sleeves and other penetrations to verify proper installation.
 - Roofing shall not be applied until all vents, drains, curbs, cants blocking, nailing strips, and projects thru roof deck have been installed in area of work.
 - Start of work shall imply acceptance of the substrate conditions and any repair, correction or modifications required to install an acceptable roofing system will be responsibility of the roofing contractor.
 - For structural reasons heavy power equipment is not allowed on the roof.
- Part 4 Guarantee/Warranty
 - Provide manufacturer's no dollar limit (NDL) guarantee to repair or replace components of metal panel systems that fail in materials or workmanship for a minimum period of 10 years from date of Substantial Completion.
 - Warranty on panel finishes shall be 20 years from date of Substantial Completion.

End of Section