

SECTION 07411

GALVALUME(R) ROOF PANELS

PART GENERAL

SECTION INCLUDES

Labor, materials, tools, equipment, and services for preformed Galvalume(R) roofing, including roof panels, flashings and all other accessories necessary for a sound, secure and complete installation.

Coordination with related work.

RELATED SECTIONS

Section 05120 - Structural Steel.

Section 06100 - Rough Carpentry: Framing and Sheathing.

Section 06150 - Wood Decking.

Section 07210 - Building Insulation.

Section 07620 - Sheet Metal Flashing and Trim.

Section 07900 - Joint Sealers.

REFERENCES

ASTM A 792/A 792M - Standard Specification for Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process, General Requirements.

SUBMITTALS

Submit under provisions of Section 01300.

Product Data: Submit manufacturer's product specifications, standard details, installation instructions and general recommendations, as applicable to materials and finishes for each component and for complete roofing installation.

Shop Drawings: Submit complete shop drawings and erection

details showing methods of erection, elevations and plans of roof panels, sections and details, anticipated loads, flashings and all other accessories, interfaces with all related work of other trades, and proposed identification of component parts and their finishes.

Selection Samples: Submit color chips for selection of finishes.

Verification Samples: Submit one sample of roof panel, including clips and battens if applicable. Submit two color chip samples in color selected by Architect.

Certifications: Submit certification that roofing assembly meets specified loading requirements and has been pretested to provide specified resistance to wind uplift, and air and water infiltration.

QUALITY ASSURANCE

Manufacturer: Minimum __ years experience in manufacturing roof panels similar to those required for this project.

Installer: Minimum __ years experience in installing roof panels similar to those required for this project.

Field Measurements: Where possible, take field measurements of structural framing and substrate to receive the roofing, prior to fabrication of roof panels.

DELIVERY, STORAGE, AND HANDLING

Delivery: Deliver roof panels to project site packaged to provide protection against transportation damage and adverse weather. Inspect roof panels upon arrival at site. Notify manufacturer of any damaged or stained material.

Storage: Store all material and accessories above ground on well skidded platforms. Elevate one end of each skid to allow for moisture run-off. Store under waterproof covering. Provide proper ventilation to prevent condensation build-up between each roof panel.

Handling: Exercise extreme care in unloading, storing and erecting roof panels to prevent bending, warping, twisting, and surface damage.

WARRANTY

Material Warranty: Provide warranty issued by manufacturer to cover roof panel base metal against rupture, structural failure, or perforation due to exposure to normal atmospheric corrosion for a period of 20 years and 6 months.

Weathertightness Warranty: Provide warranty issued by installer to cover roofing against leaks arising out of or caused by ordinary wear and tear under normal weather and atmospheric conditions for a period of __ years.

Finish Warranty: Provide manufacturer's warranty to cover roof panel finish against cracking, checking, blistering, peeling, flaking, chipping, chalking, and fading under normal atmospheric conditions for a period of __ years.

PART PRODUCTS

MANUFACTURERS

Material: Provide Galvalume(R) sheet as manufactured by Bethlehem Steel Corporation; Bethlehem PA 18016-7699; ASD. Tel. (800) 352-5700, extension 400.

Roofing: Provide preformed Galvalume(R) roof panels, flashings and accessories from one of the following manufacturers:

Manufacturer No. 1: _____.

Manufacturer No. 2: _____.

Manufacturer No. 3: _____.

Substitutions are not acceptable.

Submit requests for substitutions in accordance with provisions of Section 01600.

MATERIALS

Roof Panels, Flashings, and Accessories: Structural quality aluminum-zinc alloy-coated steel sheet (Galvalume(R)), complying with ASTM A 792 and with coating weight, grade and thickness to suit manufacturer's standards.

Finish: Apply paint system by a pre-approved coil coater in accordance with Bethlehem's "Process Specification for Prepainted Galvalume(R) Sheet."

Paint System: _____.

Color: _____.
Color: As selected by Architect from manufacturer's standards.

FABRICATION

Roll-form continuous roof panels, as detailed on approved shop drawings, in lengths up to manufacturer's maximum standard lengths.

Fabricate trim, flashing and accessories, as detailed on approved shop drawings.

Fabricate trim and flashing from same material as panel.

PART EXECUTION

EXAMINATION

Verify that substrates and adjacent work are ready to receive work of this section. Do not proceed until unsatisfactory conditions have been corrected.

INSTALLATION

Install panels so they are weathertight, allowing for expansion and contraction.

Install panels in accordance with manufacturer's instructions and approved shop drawings.

Install panels plumb, level, and straight, with seams and ribs/battens parallel, conforming to the design as indicated.

ADJUSTING AND CLEANING

Dispose of excess materials and remove debris from site.

Clean work in accordance with recommendations of roofing panel manufacturer.

Touch up minor scratches and abrasions with paint provided or approved by panel manufacturer.

Protect work against damage. Replace any work that becomes

damaged prior to final acceptance.

END OF SECTION