

## WEATHEREDGE BUILDING COMPONENTS METAL ROOF AND WALL SPECIFICATIONS

These specifications have been prepared as a guide to assist the builder, engineer, or architect in meeting the roofing and siding requirements of a particular project.

- A. Scope of Work
1. Furnish and install a Weatherbest metal roof and wall panels in accordance with this specification and all applicable drawings.
  2. Builder shall furnish all materials, erection, labor, and equipment required in the execution of this work in accordance with plans and specifications.
  3. Products to be considered equal to those specified below must be approved in writing by the appropriate builder, architect, or engineer 10 days prior to project bid date.
- B. Materials – uninsulated metal roof and wall panels shall be manufactured by Weatheredge Building Components, Clyde, NY, and shall consist of the following:
1. Weatherbest metal roof and wall panels:  
Panels shall be roll formed into the finished profile having  $\frac{3}{4}$ " deep trapezoidal ribs 9" on center with two stiffening ribs to minimize oil canning. Panels shall provide 36" coverage and have overlapping sidelap features. The metal siding and roofing panels shall be fabricated from 29 Gauge 80,000 psi (80 KSI) structural quality steel with an AZ-50 galvalume coating conforming to ASTM A-653 and ASTM A-924 (latest revisions). No visual defects shall exist in the panels upon receipt that will affect the service life of the panel such as scratches, excessive die marks, etc. All panels should lap correctly as promoted by the manufacturer to insure weathertightness, and should be dimensionally correct as ordered with the following tolerances:  
  
Length = as ordered +/-  $\frac{1}{4}$ "  
Covered panel width = 36" +/-  $\frac{1}{8}$ "  
  
Panels shall be square such that correct and uniform panel installation will occur.
  2. Paint Finish: All panels, when required, shall receive a factory-applied finish coating conforming to the following:
    - a. Metal preparation: all metals shall have the surfaces carefully prepared for painting on a continuous process coil coating line by the application of a pretreatment compound to the steel substrate.
    - b. Prime coating: a water-based coat of paint, specifically formulated to interact with the topcoat, shall be applied to the prepared surfaces by roll coating to a dry film thickness of 0.35 +/- 0.05 mils on the front, and 0.25 +/- 0.05 mils on the back. This prime coat shall be oven-cured prior to application of finish coat.
    - c. Exterior coating: a modified silicone polyester-based finish coating shall be applied over the primer by roll coating to a dry film thickness of 0.08 +/- 0.05 mils for a total dry film thickness of 1.15 +/- 0.10 mils. This finish coating shall be oven cured.
    - d. Interior finish coating: an interior finish coat shall be applied on the reverse side over the primer by roll coating to a dry film thickness of 0.35 +/- 0.05 mils for a total dry film thickness of 0.6 +/- 0.10 mils. The finish coat shall be oven cured.
    - e. Color: the color of the exterior finish shall be selected from Weatheredge Building Components standard color program. The interior finish shall be white.
  3. Flashings: All flashings shall be shop fabricated. Where practical, flashings shall be furnished in 10 ft. 2 in. lengths.

4. Closures: shall be pre-molded EPDM or polyethylene to match the configuration of the wall and roof panel and shall be in lengths as supplied by the panel manufacturer.
5. Caulking/Sealant: shall be gun grade or tape type non-hardening long-life butyl (for sealing metal-to-metal gasket joints) or gun grade non-acetic acid cured long-life silicone (for filling voids). All caulking or sealant shall be applied in a neat manner with excess caulking or sealant removed from exposed surfaces.
5. Fasteners: All exposed screw fasteners shall be zinc-plated with a heavy-duty protective coating assembled with a 1/2" minimum diameter, dished bonded aluminum and neoprene washer. All exposed fasteners shall be painted to match panels and flashings. Fastener selection and installation shall be described in Weatheredge's product catalog.
6. Warranties: Metal roof and wall panels shall have a limited finish warranty from the paint manufacturer which guarantees against crack, check, or peel for 40 years. In addition, the metal roof and wall panels shall have a limited paint warranty from the paint manufacturer which guarantees the finish will not chalk in excess of a numerical rating, per ASTM D 559 (latest) of eight (8) for vertical walls and six (6) for non-vertical panels. It will not fade or change in color, per ASTM D 2244 (latest), in excess of five (5) NBS Units for vertical siding panels and seven (7) NBS Units for non-vertical panels for a period of 30 years. The metal roof and wall panel manufacturer shall further guarantee the wall panels for a period of 25 years and the roof panels for a period of 20 years against red rust corrosion/perforation caused by acid rain. The warranty shall also guarantee the non-vertical panels for a period of 15 years against the accumulation of red rust caused by acid rain, which is clearly visible in casual observation, except for areas within 1/2" from any edge that is cut after coil coating.

C. Performance

1. Class A Fire Resistance Classification under UL 790.
2. Class 4 Hall Resistance under UL 2218.

D. Erection

1. Proper installation of Weatherbest panels and all related components is the responsibility of the panel erector.
2. The contractor shall inspect the structure to ensure that the support members are securely anchored and properly aligned so as to provide a flat plane for the panels.
3. All panels shall be erected in accordance with the manufacturer's recommended installation instructions.
4. Insulation is to be protected from the elements and, therefore, no insulation should be installed that cannot be covered with panels during the same workday.
5. At intervals no longer than one workday, all loose metal particles and fillings must be removed from the panels and flashings.
6. After installation, all panels shall be wiped clean and all scratches or abrasions to painted panels shall be touched up with an air dry paint as recommended or supplied by the panel manufacturer. Touch up paint shall be the same color as the panels.

E. Provided by others

1. Windows, doors, louvered openings, fans, etc.
2. Insulation
3. Wood-framing system
4. Any miscellaneous items which have not been specified or are not normally supplied by the panel manufacturer.

