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## CHECKLIST #0145 FOR THE APPROVAL OF: METAL ROOFING SYSTEMS (NON-STRUCTURAL)

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- Basic Requirements Checklist:
- One set of the manufacturer's 'approval document' including:
  - Extrusion or cross section with details, properties and all dimensions,
  - Details of all sections with dimensions and thickness,
  - Fastener diagram
  - Details of all connections including size and location, corresponding with tests,
  - Installation instruction, and
- List of the manufacturing location(s) of product seeking approval.
- One set of manufacturer's design drawings marked and verified by the testing laboratory

**The following current laboratory tests and reports in compliance with protocol TAS 301.**

- Accelerated Testing of coating for 2000 hours per ASTM G152 or ASTM G155
- Salt Spray Testing of coating 1000 hours per ASTM B117
- Fire Testing per ASTM E108 or UL790. (Not required if system is assembled with an approved fire barrier.)
- Uplift resistance test per TAS 125. (UL 580 Class 90 or higher. The permanent deformation area, at any location, shall not exceed the area of a 1" diameter circle.) **See Note 5.**
- Wind Driven Rain Test per TAS 100. **See Note 4.** (If system is to include a valley assembly and/or horizontal joints, the valley assembly and/or two horizontal joints shall be incorporated in TAS 100 test.)

Notes:

1. System must be tested with the same approved fastener: no change in configuration washer and/or diameter will be accepted.
2. System should be installed over minimum 15/32" thickness plywood attached to the framing using corrosion resistance #8 wood screws or annular ring shank nails.
3. The permanent deformation of nonstructural roof systems shall not exceed 1.00 inch in diameter.
4. Specimen for TAS 100 on systems that are mechanically fastened to the substrate through the panels must be identical to the specimen tested in TAS-125 with the most amount of seams and closest fastener spacing.
5. Different insulation thickness and density will be acceptable as follows:
  - a. Density and compression strength is limited to the one tested or greater
  - b. Testing an insulation thickness between  $\frac{3}{4}$ " and 4" will qualify that range.
  - c. Testing an insulation thickness between 4" and 6" will qualify that range.
  - d. Testing below  $\frac{3}{4}$ " or above 6" will qualify the insulation thickness tested only.
6. If multiple manufacturing locations for the product being approved are to be included in the approval document, then testing must be performed and submitted for the manufactured product from each location.