

**CHECKLIST #0250 FOR THE APPROVAL OF:  
 METAL PANEL, SANDWICH PANEL, SIDING & SOFFIT**

- Basic Requirements Checklist.
- One set of the manufacturer's 'approval document' including:
  - a) Details of all sections with dimensions and thickness,
  - b) Assembly details including all connections, and
  - c) Fastener diagram with size and location corresponding with test & calculations.
- Calculations based on the test verifying:
  - a) Anchoring method of product to the structure, and
  - b) Bending Moment, Deflection, and Support Reaction (this will be used to evaluate the structural properties of the product).
- One set of manufacturer's design drawings marked and verified by the testing laboratory.

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

- Impact test per TAS201. (Not required for soffits)
- Uniform static air test per TAS202. (Positive and negative)
- Cyclic test per TAS203. See note # 4.
- Test for evaluation of painted panels according to ASTM D1654. If metal is not galvanized with a coating of G90 according to ASTM A525.
- Tensile test of metal sheet of panel per ASTM E8.

Notes:

1. If the product has plastic as a component, add plastic checklist to these requirements.
2. Testing shall be done in the same manner, as product will be installed in the field.
3. Metal panels & metal siding installed in front of CBS construction (ASTM C90) or 5/8" (5 ply) plywood supported by 2x studs or 2x6 – 18 Ga. metal studs, each at 16" o.c. are exempt from impact & positive pressure tests.
4. Metal siding & metal soffits will require cyclic test regardless of impact test procedure.
5. Three specimens of each model shall be tested and rated for the lowest pressure.
6. The following equation may be used to calculate the allowable cycle time for specimens larger than 75 ft<sup>2</sup> and with a width of more than 20 ft. and/or height of more than 8 ft.  
 Maximum allowable cycle time for  
 specimens over 75 ft<sup>2</sup> = (area of specimen – 75) x (0.06) +3 seconds  
 Maximum allowable cycle time for this equation is not to exceed 10 seconds.

