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## FAI & QUALITY REQUIREMENTS

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**Part Number:** 920-248

**Date:** June 16, 2010

**Revision:** A

**Product:** Window Channel

**Author:** Nathan Bailey

### **First Article Inspection Requirements**

The vendor shall provide parts for inspection that are representative of actual production. The parts must be manufactured on the tooling that will be used in production, using the production manufacturing processes and manufactured at line rate. No prototypes or "hand made" parts will be accepted for First Article Inspection.

Changes in tooling, new tooling, new sub-suppliers or significant changes in raw material suppliers will require the vendor to re-submit a First Article for inspection prior to making the changes in production.

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**Number of FAI Samples Required: 5 each**

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### **Vendor Requirements**

**First Article Inspection sample will be rejected if not submitted with all of the following documentation.**

- **General Documentation:**
  - FAI Cover Sheet
  - Assembly Drawings, Component Drawings and / or Key Characteristic Drawing
  - Bill of Materials
  - Instruction sheet
  - Level 0 Packaging with label and Level 1 label.
- **Dimensional Verification:** Vendor to provide measurement data certifying that first article sample conforms to:
  - Approved vendor drawing / assembly drawing
  - Component drawings
  - Key Characteristic Drawing
- **Laboratory Documentation:** The Vendor must provide Laboratory Accreditation Documentation for all Laboratory tests performed on this product.
  - Accredited China labs
    - Test Centre, Shanghai Research Institute of materials
    - Testing Center of Shanghai Electric Cable Research Institute
    - Shanghai Institute of Machining Building Technology Co., LTD F.F.H Laboratory
  - Accredited domestic labs
    - Advanced Plastic and Material Testing, Inc. (APM)
    - Stork Materials Technology (Stork MMA)
- **Material Certification:** Laboratory Certifications confirming chemical and physical properties are required for all materials.
  - Certifications are to be on Laboratory letterhead and be translated to English.
  - Certification to clearly identify all corresponding component/s
  - Material/s identified on certification to correspond to material specification on associated drawing.
  - FAI will be rejected if certifications are not in compliance to above criteria.



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- **Performance Certification:** Laboratory or manufacturer Certifications confirming that assembly and/or components meet specified performance criteria. **FAI sample is not to be submitted without proper performance documentation.**
  - Certification of Compliance to specified SAE requirements
    - SAE J 457: Chemical Compositions, Mechanical Property Limits, and dimensional tolerances of SAE Wrought Aluminum Alloys
    - SAE J 454: General Data on Wrought Aluminum Alloys
    - SAE J 456: Typical Physical and Mechanical Properties of SAE Wrought aluminum alloys
    - SAE J 455: Chemical Compositions of SAE Wrought Aluminum Alloys
    - SAE J 399: Anodized Aluminum Automotive Parts
    - Test procedure, equipment, test data, and test report to be submitted.
  - Product test data indicating that performance is within specified limits as indicated in Design Specification document.
    - Performance data to include but not limited to:
      - Detailed description of test.
      - Data collection charts
      - Performance graphs
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### **R&B Inc. / Dorman Products Inc.**

#### **First Article Inspection Requirements**

- FAI Engineer will perform a complete dimensional comparison of the FAI sample vs. approved drawing
- FAI Engineer will check and test Critical Characteristics as identified in the Design Specification document against OE sample.
- FAI Engineer will perform vehicle installation test using existing OE component performance characteristics as benchmark standard.
  - Vehicle try on to confirm fit
- FAI Engineer visually inspect the samples for any imperfection, flaw, defect, fault or blemish, which could be an indication of more serious quality issue.
- FAI Engineer to confirm that Country of Origin, date code, vendor number, part number, Dorman logo, and any other specified markings are present and in correct locations as specified on approved drawing.
- FAI Engineer to confirm that packaging, label artwork, and label location are in compliance with Packaging Specification documents.