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## Letter of Certification

### **3" x 4" Aluminum Elbow .019 Gauge Aluminum**

**Spectra Metal Sales, Inc. is a member of the National Coil Coating Association and uses the NCCA's standards as guidelines for physical testing.**

- The Aluminum used is alloy 3105-H15 or 3105-H25 which meets the specifications set forth in the "Aluminum Standards and Data 2006" published by the Aluminum Association. The gauge of the Aluminum for this coil is .019, +/- .002.
- The Aluminum's inside and outside coating is a thermo polyester paint which is roll coated and baked per manufactures specifications.
- The paint specifications used for our smooth white polyester coated trim coil are as follows:

|                        |  |
|------------------------|--|
| Dry Film Thickness:    | .80 +/- .05 mils   |
| Gloss (60°):           | 10 +/- 2 Units   |
| Solvent Resistance:    | 100 Double rubs (M.E.K.)   |
| Flexibility:           | .019 (+/- .003) 2 T Bend minimum   |
| Impact (N.T.O.):       | 1-1/2 Times metal thickness in Inch-Lbs<br>(ASTM D 2794)   |
| Pencil Hardness:       | F - 2H   |
| Humidity Resistance:   | No blistering, loss of adhesion after<br>1,000 hours exposure to 100% relative humidity.<br>(ASTM D 2247)                              |
| Salt Spray Resistance: | No field blistering and no more than 1/16" creep<br>from a score line after neutral salt spray testing for<br>1,000 Hours (ASTM B 117) |
| Weathering Resistance: | Will withstand ten years outdoor southern exposure in South<br>Florida, without cracking, blistering, splitting or peeling.            |

### **Specifications & Features of the finished Product**

- Overall Length is 13" standard.
- The elbow opening is 3 x 4 inches.
- The finished of this product is covered by a 20 year limited warranty.
- Made in the USA, using 97% post consumer material.