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## Letter of Certification

### 4" x 5" Aluminum Elbow .027 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 2017" published by the Aluminum Association. The gauge of the Aluminum for this coil is .027, +/- .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 polyester coated coil are as follows:

Dry Film Thickness:	.65 +/- .05 mils
Gloss (60°):	10 +/- 2 Units
Solvent Resistance:	100 Double rubs (M.E.K.)
Flexibility:	.027 (+/- .003) 2 T Bend minimum
Impact (N.T.O.):	1-1/2 Times metal thickness in Inch-Lbs (ASTM D 2794)
Pencil Hardness:	F - 2H
Humidity Resistance:	No blistering, loss of adhesion after 1,000 hours exposure to 100% relative humidity. (ASTM D 2247)
Salt Spray Resistance:	No field blistering and no more than 1/16" creep from a score line after neutral salt spray testing for 1,000 Hours (ASTM B 117)
Weathering Resistance:	Will withstand ten years outdoor southern exposure in South Florida, without cracking, blistering, splitting or pealing.

### Specifications & Features of the finished Product

- Overall Length is 16 1/2" standard.
- The elbow opening is 4 x 5 inches.
- The finished of this product is covered by a 20 year limited warranty.
- Made in the USA, using 94% post consumer material.

