

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 1-1/2 X 1-1/2 UTILITY ANGLE

**MARINO\WARE PART #** 112CJ18

## PROPERTIES:

<b>Leg A (in)</b>	1-1/2	<b>Yield Strength Fy (KSI)</b>	33
<b>Leg B (in)</b>	1-1/2	<b>Tensile Strength Fu (KSI)</b>	45
<b>Mils</b>	43	<b>Design Thickness (in)</b>	0.0451
<b>Available Finish</b>	G40, G60 or G90	<b>Minimum Thickness (in)</b>	0.0428
		<b>Gauge</b>	18

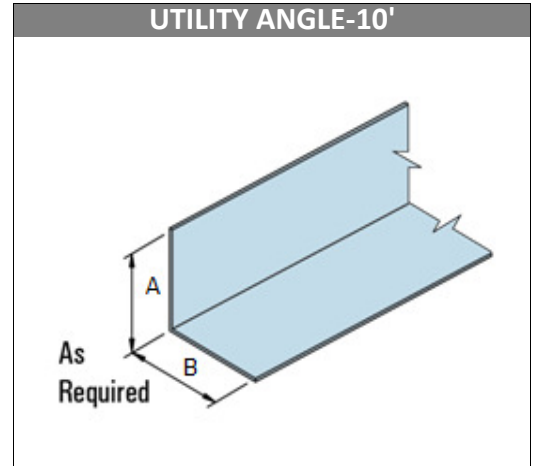
## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.13145
Weight of Member: <b>(lb/ft)</b>	0.44693
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	0.048493
Section Modulus: <b>Sx-t</b> (in <sup>3</sup> )	0.045720
Section Modulus: <b>Sx-b</b> (in <sup>3</sup> )	0.045720
Gross Section Modulus: <b>Sy-l</b> (in <sup>3</sup> )	0.022594
Gross Section Modulus: <b>Sy-r</b> (in <sup>3</sup> )	0.021855
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.011602

## 05.40.00 Cold-Formed Metal Framing

### UTILITY ANGLE-10'



## CODES & STANDARDS

- AISI S100-07, IBC 2009 compliant
- ASTM C 955 (33 mil - 118 mil) & ASTM C 645 (18 mil - 33 mil) compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

## GREEN INFO LEED® v3

Available LEED® points in the following categories:

- MR Credit 2 - Construction Waste Management (1-2 points)
- MR Credit 4 - Recycled Content (1-2 points)
- MR Credit 5 - Regional Materials (1-2 points)

- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

This technical information reflects the most current information available and supersedes any and all publications, effective 10/1/2011  
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